AIPHONE®

General Line Catalog | 2020

SECURITY COMMUNICATION SOLUTIONS

CELEBRATING 50 YEARS

Proud to be a trusted business partner since 1970



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Look for the QuikSpec Logo!

Many products can be specified using Aiphone's online system design tool. Plus, it's FREE to sign up.

quikspec.com

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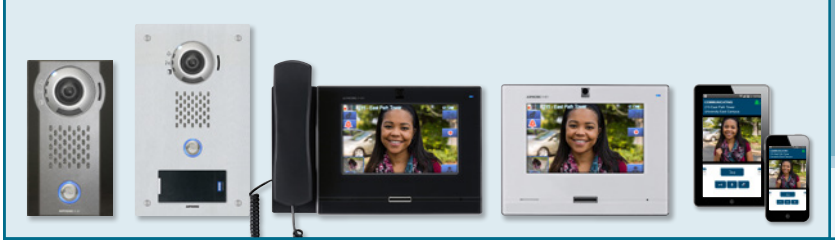
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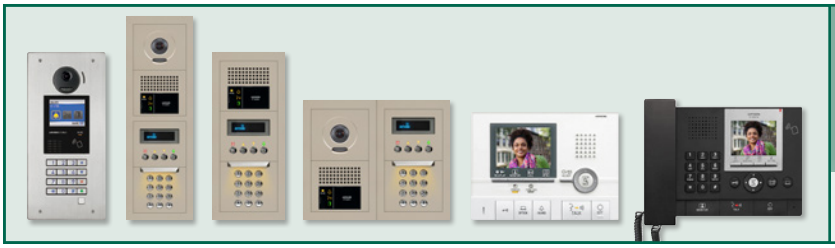
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Experience the Difference

Take advantage of *your* Aiphone benefits. Always free. Always helpful.

- **Aiphone Experts** are available in your local area
- **Tech Support** will answer your questions for free
- **QuikSpec** is your 24/7 online tool to specify a system

QuikSpec

- **Product Demos** can be brought directly to your location

DEMO



eXperience **AIPHONE**

...and Expect More

Enterprise Security & Communications You Can Trust

ISO 9001:2015 Certified Intercom Manufacturer

The International Standards Organization (ISO) 9001:2015 certification is a globally-recognized mark of quality in product design and development, production, inspection, and testing. Aiphone has received this world-renowned certification since 2000.

Prestigious Deming Prize Award Winner

The Union of Japanese Scientists and Engineers awards the exclusive Deming Prize to a handful of companies, wowing them with their total quality management. Aiphone is proud to be a rare, two-time winner of the prestigious Deming Prize for quality management and manufacturing processes.



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Training, Support, and Service to Ensure *Your* Success

- Comprehensive product knowledge, so you are always expertly informed
- Spec products 24/7 with QuikSpec
- Award-winning support – providing online and in-person training, top-notch technical assistance, and friendly customer service
- Ask how we can customize a solution for you – we offer systems for highly specified or unusual needs

Learn more at **aiphone.com/glc_experience**

IP Intercoms

FREE Security Site Assessment

Easy to schedule for your customers.



Securing employees and assets should be a top priority for business owners, but it can be a daunting challenge.

We can provide a free site assessment to evaluate your customer's current security layers — and how we can help to optimize them.

Request a free site assessment at **aiphone.com/glc_assessment**

IP Intercoms

IX Series 2
Peer-to-Peer IP Video Intercom
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IX Series 2
Peer-to-Peer IP Video Intercom with Emergency
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IS Series
Local IP Video Intercom
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IS Series
Global IP Video Intercom
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IS Series
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IS Series
Global Hybrid IP Video Intercom
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Look for the QuikSpec Logo!

Aiphone's online system design tool ensures you will have the right parts to configure one of our IP solutions – no matter the application size.

quikspec.com

STATIONS ∞

IX Series 2 Peer-to-Peer IP Video Intercom

IP Door Stations: mix and match unlimited (can call up to 20 master stations or mobile apps at one time)



IX-BA *(audio)*
IX-DA *(video)*
IP Audio & Video Door Stations
- PoE
- SIP compatible
- Fixed camera *(IX-DA)*
- Plastic chassis
- Weather resistant
- Surface mount

IX-BA → p. 83
IX-DA → p. 82



IX-DV
IP Video Door Station
- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- On-board recording with a microSD™ card
- Fixed camera
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount

→ p. 82



IX-DVF
IP Video Door Station
- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- On-board recording with a microSD™ card
- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 82



IX-DVF-P
Card Access IP Video Door Station
- Same features as IX-DVF, plus:
- HID® multiCLASS SE® Proximity Card Reader *(requires a 3rd-party host and additional wire to power card reader)*

→ p. 82



IX-SSA
IP Audio Door Station
- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- On-board recording with a microSD™ card
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 83



IX-SS-2G
IP Audio Door Station
- PoE
- SIP compatible
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 83

2 wires

Door Strike and Power

LAN



For MORE compatible door stations (IX-DVF-4, IX-NVP, IX-NVP2), see p. 82–83

NEW



For emergency stations, wall boxes, and modular towers, see p. 10

Network Adaptors (each adaptor uses 1 IP address)



IX-1AS
2-Wire Audio Door / Sub Station Network Adaptor
- Supports 1 LE Series, NE Series, or 8Ω Door / Sub Station
- PoE

→ p. 81



IX-10AS
2-Wire Audio Door / Sub Station Network Adaptor
(includes 10 IX-1AS adaptors – each requires an IP connection)
- Supports 10 LE Series, NE Series, or 8Ω Door / Sub Stations
- PoE *(x10)*

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IX-PA
Network Paging Adaptor
- 8Ω, 5W speaker output
- 600Ω amplifier output
- Audio input
- PoE

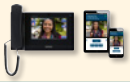
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System Features

- Can register to a compatible IP PBX for enhanced SIP features, like call forwarding and dialing out
- Device supervision allows for scheduled or manual system checks to ensure all stations are operating as expected
- IP camera integration makes it easy to toggle between the close-up view of the video door station and the wide view of an IP camera
- Backward and forward compatible – easily upgrade IX Series systems, now and in the future
- Transfer calls between multiple stations based on a schedule or time delay
- PoE passthrough on IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P, and IX-SSA stations can power additional device (requires PoE+)
- Peer-to-peer design saves on costly licensing fees and additional servers
- Mobile app provides sub master station functionality
- Scalable system is easy to expand – mix and match an infinite (∞) number of door stations, emergency stations, master stations, sub stations, and mobile apps
- Support Tool programming allows for batch configurations
- ONVIF® Profile S video streaming
- Integration with Lenel® OnGuard® (7.3, 7.4, and 7.5 releases) and Software House® CCure 9000 (2.50, 2.60, and 2.70 releases)
- All Call or group paging
- Priority call queueing
- Prerecorded message paging
- Bell scheduling
- Standard door release wiring to door/emergency station or to IXW-MA for added security

Calling Capacities

The IX Series has an unlimited station capacity, where an infinite number of door stations, emergency stations, network adaptors, master stations, sub stations, and mobile apps can be part of a system. However, there is a **calling capacity for each station** (refer to the chart below). Each door station, emergency station, sub station, or 2-wire network adaptor can call up to 20 master stations, sub stations, or mobile apps at one time.

Chart illustrates calling capacities for each station.	Master Stations or Mobile Apps 	Door Stations, Emergency Stations, Sub Stations, or 2-Wire Network Adaptors 	Network Paging Adaptor 
Address Book	500 stations (with 50 groups) and 20 recent calls	N/A	N/A
Calling	1 station **OR** 1 group of up to 50 masters / apps	1 group of up to 20 masters / apps ***NOTE:*** *An additional group can be called with the optional input or via CGI (does not apply to 2-wire door / sub station adaptors).*	N/A
Paging	All stations (All Page) **OR** groups up to 50 stations	Receive only	1 group of up to 50 stations

IP Master Stations: mix and match unlimited

(can call up to 500 door stations, emergency stations, master stations, or mobile apps)



IX-MV7-HW *(white)*
IX-MV7-HB *(black)*
IP Video Master Station

- PoE
- SIP compatible
- 7" LCD touchscreen
- 8 speed dial buttons
- Camera for 2-way video calls
- On-board recording with a microSD™ card
- Hands-free communication with handset for privacy
- Wall or desk mount *(stand included)*

→ p. 79



IX-MV7-W *(white)*
IX-MV7-B *(black)*
IP Video Master Station

- PoE
- SIP compatible
- 7" LCD touchscreen
- 8 speed dial buttons
- Camera for 2-way video calls
- On-board recording with a microSD™ card
- Hands-free communication
- Wall or desk mount *(stand included)*

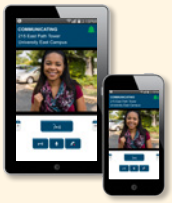
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IX-MV
(not shown)
Original IX Series IP Video Master Station

- PoE
- 3-1/2" LCD screen
- 6 speed-dial buttons
- Hands-free communication with handset for privacy
- Wall or desk mount *(stand included)*

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Sub Stations: mix and match unlimited



IX Mobile App
Mobile App Sub Master Station for Smartphones and Tablets
(requires 1 master station and 1 IXW-MA per 8 apps in the system – mobile devices not included)

- Available on Google Play™ *(Google Play is a trademark of Google LLC.)*
- Available on the App Store℠ *(App Store is a service mark of Apple Inc.)*
- Provides station functionality to answer calls and unlock doors
- 4 speed dial buttons can be programmed to call, page, or monitor

→ p. 80



IX-RS-B *(black)*
IX-RS-W *(white)*
Audio Room Sub Station

- PoE
- SIP compatible
- Internal communication with other sub stations
- Hands-free communication with handset for privacy
- Wall mount

→ p. 80

Accessories



KAW-D
30˚ Angle Box for IX-BA or IX-DA
→ p. 107



KMB-45
45˚ Mullion Mounting Bracket for IX-BA or IX-DA
→ p. 107



IX-SDH
Surface Mount Security Door Housing for IX-BA or IX-DA
→ p. 82



IX-SDH-P
Surface Mount Security Door Housing with HID® multiCLASS SE® Proximity Card Reader for IX-BA or IX-DA
→ p. 82



SBX-2G/A
Surface Mount Box for IX-SS-2G
→ p. 106



SBX-IXDV30
30˚ Angle Box for IX-DV
→ p. 107



IX-MB
Mullion Mounting Bracket for IX-DV
→ p. 107



SBX-IDVF
Surface Mount Box for IX-DVF or IX-SSA
→ p. 106



SBX-IDVFRA
Surface Mount Box for IX-DVF-4 or IX-DVF-P
→ p. 106



TW-SPL
Tower Mounting Plate for IX-DVF or IX-SSA
(adapts standard door station to an Aiphone tower or wall box)
→ p. 87



IXW-MA
IP Relay Adaptor
→ p. 80



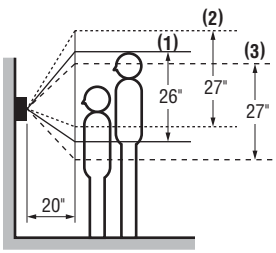
IPW-1VC
2-Wire Network Adaptor
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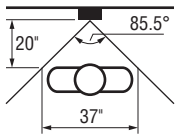
Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
IX-1AS	1-1/2"	4-1/4"	4-15/16"	38	108	125
IX-10AS	5-1/4"	16-3/4"	4-15/16"	132.6	425.5	125
IX-BA, IX-DA	5-1/16"	3-13/16"	1-5/8"	129	96.8	42
IX-DV	8-1/16"	4-1/2"	2-1/16"	205.5	115	52.5
IX-DVF, IX-SSA	10-7/16"	5-7/8"	*	265	150	*
IX-DVF-P	11-11/16"	7"	*	297	178	*
IX-SS-2G	4-3/4"	4-3/4"	*	120	120	*
IX-MV	7-7/16"	9-13/16"	2-5/16"	189	250	59
IX-MV7-B, IX-MV7-W	6-3/4"	8-11/16"	1-1/4"	172	220	31.5
IX-MV7-HB, IX-MV7-HW	8-1/16"	11"	2-3/16"	204	280	55.5
IX-PA	1-1/2"	4-1/4"	3-1/16"	38	108	78
IX-RS-B, IX-RS-W	7-9/16"	3-9/16"	2-5/8"	192	90	67

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

Camera View Area





(1) Standard fixed position
(2) Upward fixed position
(3) Lower fixed position

Specifications

Power Source PoE (802.3af)

IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P, IX-SSA: PoE (802.3af) or 24V DC — use PS-2420UL

Network Interface Hardwired Stations: 10 BASE-T/100 BASE-TX Ethernet (RJ-45)

Mobile App: WiFi

Network Protocols IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, RSTP, RTP, RTCP, IGMP, MLD, SMTP, DHCP, NTP, DNS

Bandwidth Usage Audio (G.722): 64Kbps x 2 for communication, 64Kbps for monitoring

Video (H.264): 24Kbps – 2,048Kbps

Video Streaming ONVIF® Profile S or RTSP

Communication Hands-free (full-duplex, half-duplex with NEW stations), push-to-talk (simplex), or handset (full-duplex)

Door Release IX-BA, IX-DA, IX-MV: programmable Form C dry contact, 24V AC/DC, 500mA (or use IXW-MA with 10 programmable relays)

IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P, IX-MV7-B, IX-MV7-W, IX-MV7-HB, IX-MV7-HW, IX-SSA: 2 Form C dry contacts, 24V AC/DC, 1A

IX-RS-B, IX-RS-W, IX-SS-2G: Form C dry contact, 24V AC/DC, 1A

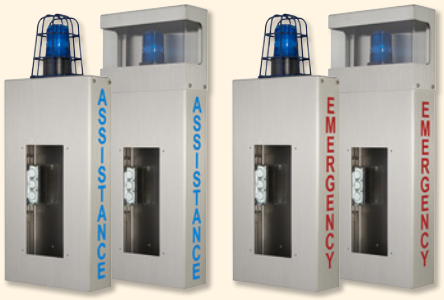
Wire Type Cat-5e or Cat-6

Distance Door Station, Emergency Station, Sub Station, Master Station, or Network Adaptor to Network Node: 330'

Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions.

IX Series 2 Peer-to-Peer IP Video Intercom with Emergency

Emergency Wall Boxes, Modular Towers, & Solar Tower Sets (optional)



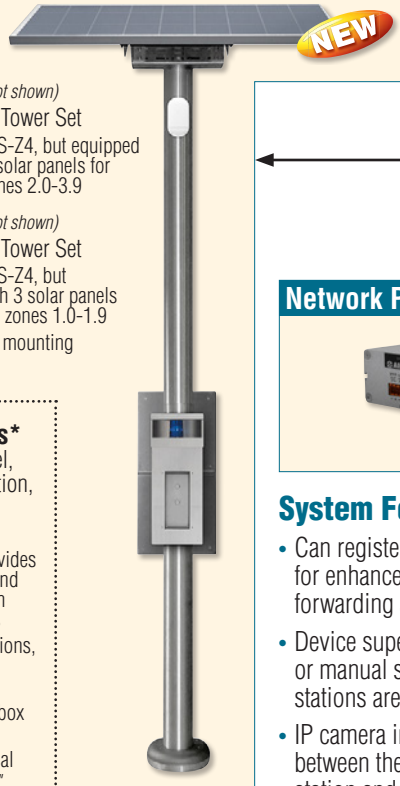
WB-CE* *(cage)*
WB-HE* *(hood)*
ADA Compliant Wall Box
- Beacon/strobe light
- EMERGENCY lettering
- UL Listed electrical box
- Stainless steel enclosure with slim, 4" depth
- Wall mount

→ p. 85

WB-CA* *(cage)* **WB-HA*** *(hood)*
ADA Compliant Wall Box
- Beacon/strobe light
- ASSISTANCE lettering
- UL Listed electrical box
- Stainless steel enclosure with slim, 4" depth
- Wall mount

→ p. 85

TWS-Z4
Zone 4 Solar Tower Set
- Includes WB-HE wall box with Sun Surveillance's solar panel and mounting components
- Wireless solar solution powers wall box beacon/strobe and emergency call station
- Equipped with 1 solar panel for sun-rated zones 4.0+



TWS-Z2 *(not shown)*
Zone 2 Solar Tower Set
- Same as TWS-Z4, but equipped with 2 solar solar panels for sun-rated zones 2.0-3.9

TWS-Z1 *(not shown)*
Zone 1 Solar Tower Set
- Same as TWS-Z4, but equipped with 3 solar panels for sun-rated zones 1.0-1.9
- Direct-burial mounting

→ p. 85



Modular Towers*
2-Module Mid-Level, 3-Module Dual-Station, and 3-Module High-Level Towers
- Modular design provides lower freight costs and easier assembly than non-modular towers
- Variety of configurations, including size, lettering, and colors
- UL Listed electrical box
- CCTV camera arm module with universal pipe threading *(1.50" NPT threading x 1" long)*
- Includes accessory mounting hardware with external threads *(male: M3 x .05, 1-gang spacing pattern)*
- Large access panel on each module
- Zinc-treated steel with powder coating

→ p. 86



PS-POE
PoE Splitter
→ p. 84

PoE+ (required) Network Switch

*Power required for the beacon/strobe light inside wall boxes and modular towers – use PS-POE splitter to draw power from PoE+ network switch

IP Emergency Stations: mix and match unlimited

(can call up to 20 sub stations, master stations, or mobile apps at one time)





IX-DVF-2RA *(two buttons)*

IX-DVF-RA *(one button)*
ADA Compliant IP Video Emergency Station
- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- On-board recording with microSD™ card
- Fixed camera
- Two call buttons
- Lettering and braille signage
- LED call status indicator
- 2 Form C relay outputs
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 83





IX-SSA-2RA *(two buttons)*

IX-SSA-RA *(one button)*
ADA Compliant IP Audio Emergency Station
- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- On-board recording with microSD™ card
- Lettering and braille signage
- LED call status indicator
- 2 Form C relay outputs
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

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Stations are also available with French labels:

IX-DVF-2RA-FR → p. 84
IX-SSA-2RA-FR → p. 84
IX-DVF-RA-FR → p. 84
IX-SSA-RA-FR → p. 84

Network Paging Adaptor (each adaptor uses 1 IP address)



IX-PA
Network Paging Adaptor
- 8Ω, 5W speaker output
- 600Ω amplifier output
- Audio input
- PoE

→ p. 81

System Features

- Can register to a compatible IP PBX for enhanced SIP features, like call forwarding and dialing out
- Device supervision allows for scheduled or manual system checks to ensure all stations are operating as expected
- IP camera integration makes it easy to toggle between the close-up view of the video door station and the wide view of an IP camera
- Backward and forward compatible – easily upgrade IX Series systems, now and in the future
- Transfer calls between multiple stations based on a schedule or time delay
- PoE passthrough on IX-DVF-2RA, IX-DVF-RA, IX-SSA-2RA, and IX-SSA-RA stations can power additional device (requires PoE+)
- Peer-to-peer design saves on costly licensing fees and additional servers
- Mobile app provides sub master station functionality
- Scalable system is easy to expand – mix and match an infinite (∞) number of door stations, emergency stations, master stations, sub stations, and mobile apps
- Support Tool programming allows for batch configurations
- ONVIF® Profile S video streaming
- Integration with Lenel® OnGuard® (7.3, 7.4, and 7.5 releases) and Software House® CCure 9000 (2.50, 2.60, and 2.70 releases)
- All Call or group paging
- Priority call queueing
- Prerecorded message paging
- Bell scheduling
- Standard door release wiring to door/emergency station or to IXW-MA for added security

IP Master Stations: mix and match unlimited (can call up to 500 door stations, emergency stations, sub stations, master stations, or mobile apps)



IX-MV7-HB *(black)*
IX-MV7-HW *(white)*
IP Video Master Station

- PoE
- SIP compatible
- 7" LCD touchscreen
- 8 speed dial buttons
- Camera for 2-way video calls
- On-board recording with a microSD™ card
- Hands-free communication with handset for privacy
- Wall or desk mount *(stand included)*

→ p. 79



IX-MV7-B *(black)*
IX-MV7-W *(white)*
IP Video Master Station

- PoE
- SIP compatible
- 7" LCD touchscreen
- 8 speed dial buttons
- Camera for 2-way video calls
- On-board recording with a microSD™ card
- Hands-free communication
- Wall or desk mount *(stand included)*

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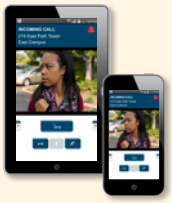
IX-MV *(not shown)*
Original IX Series IP Video Master Station

- PoE
- 3-1/2" LCD screen
- 6 speed dial buttons
- Hands-free communication with handset for privacy
- Wall or desk mount *(stand included)*

→ p. 79

LAN

Sub Stations: mix and match unlimited



IX Mobile App
Mobile App Sub Master Station for Smartphones and Tablets
(requires 1 master station and 1 IXW-MA per 8 apps in the system – mobile devices not included)

- Available on Google Play™ *(Google Play is a trademark of Google LLC.)*
- Available on the App Store℠ *(App Store is a service mark of Apple Inc.)*
- Provides station functionality to answer calls and unlock doors
- 4 speed dial buttons can be programmed to call, page, or monitor

→ p. 80



IX-RS-B *(black)*
IX-RS-W *(white)*
Audio Room Sub Station

- PoE, SIP compatible
- Internal communication with other sub stations
- Hands-free communication with handset for privacy
- Wall mount

→ p. 80

Accessories



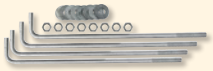
MB-RF1
Retrofit Mounting Bracket for IX-DVF-2RA, IX-DVF-RA IX-SSA-2RA, or IX-SSA-RA
(adapts emergency station to an existing Code Blue® or Talk-A-Phone® tower or wall box)

→ p. 108



SBX-IDVFRA
Surface Mount Box for IX-DVF-2RA, IX-DVF-RA, IX-SSA-2RA, or IX-SSA-RA

→ p. 106



TW-MKL
L-Bolt Mounting Kit for Modular Towers
(an L-bolt mounting kit is required for tower installation – TW-MKL is recommended)

→ p. 87



IXW-MA
IP Relay Adaptor

→ p. 80



IPW-1VC
2-Wire Network Adaptor

→ p. 81

Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
WB-CA, WB-CE	26"	10-9/16"	4"	660	203	102
WB-HA, WB-HE	27"	10-13/16"	4"	686	203	102
IX-1AS	1-1/2"	4-1/4"	4-15/16"	38	108	125
IX-10AS	5-1/4"	16-3/4"	4-15/16"	132.6	425.5	125
IX-DVF-2RA, IX-DVF-RA, IX-SSA-2RA, IX-SSA-RA	11-11/16"	7"	*	297	178	*
IX-MV	7-7/16"	9-13/16"	2-5/16"	189	250	59
IX-MV7-B, IX-MV7-W	6-3/4"	8-11/16"	1-1/4"	172	220	31.5
IX-MV7-HB, IX-MV7-HW	8-1/16"	11"	2-3/16"	204	280	55.5
IX-PA	1-1/2"	4-1/4"	3-1/16"	38	108	78
IX-RS-B, IX-RS-W	7-9/16"	3-9/16"	2-5/8"	192	90	67
TW-20/A Series	67-1/4"	10"	8"	1708	254	203
TW-22/A Series, TW-23/A Series	100-1/4"	10"	8"	2546	254	203

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

Calling Capacities

The IX Series has an unlimited station capacity, where an infinite number of door stations, emergency stations, network adaptors, master stations, sub stations, and mobile apps can be part of a system. However, there is a **calling capacity for each station** (refer to the chart on page 8). Each door station, emergency station, sub station, or 2-wire network adaptor can call up to 20 master stations, sub stations, or mobile apps at one time.

Specifications

Power Source PoE (802.3af)

IX-DVF-2RA, IX-DVF-RA, IX-SSA-2RA, IX-SSA-RA: PoE (802.3af) or 24V DC — use PS-2420UL

Network Interface Hardwired Stations: 10 BASE-T/100 BASE-TX Ethernet (RJ-45)

Mobile App: WiFi or VPN

Network Protocols IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP, RTCP, IGMP, MLD, SMTP, DHCP, NTP, DNS

Bandwidth Usage Audio (G.722): 64Kbps x 2 for communication, 64Kbps for monitoring

Video (H.264): 24Kbps – 2,048Kbps

Video Streaming ONVIF® Profile S or RSTP

Communication Hands-free (full-duplex, half-duplex with IX Series 2 stations), push-to-talk (simplex), or handset (full-duplex)

Door Release IX-MV: programmable Form C dry contact, 24V AC/DC, 500mA — use IXW-MA with 10 programmable relays

IX-DVF-2RA, IX-DVF-RA, IX-MV7-B, IX-MV7-W, IX-MV7-HB, IX-MV7-HW, IX-SSA-2RA, IX-SSA-RA: 2 Form C dry contacts, 24V AC/DC, 1A

IX-RS-B, IX-RS-W: Form C dry contact, 24V AC/DC, 1A

Wire Type Cat-5e or Cat-6

Distance Door Station, Emergency Station, Sub Station, Master Station, or Network Adaptor to Network Node: 330'

Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions.

Redefining what one IP intercom system can do.

NO Aiphone Licensing Fees

NO Aiphone Server

SIP Compatible



AIPHONE®



IX Series 2

Peer-to-Peer Video Intercom with SIP



IS Series Local IP Video Intercom

QuikSpec

IP Stations: mix and match up to 32



IS-IPDV
IP Video
Door Station
- PoE or 24V DC
- PTZ camera
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount

→ p. 76



IS-IPDVF
IP Video Door Station
- PoE or 24V DC
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 77



IS-IPDVF-HID
Card Access IP
Video Door Station
- HID® ProxPoint® Plus Proximity Card Reader
- PoE or 24V DC
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 77



IS-IPDVF-RP10
Card Access IP
Video Door Station
- HID® multiCLASS SE® Proximity Card Reader
- PoE or 24V DC
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 77



IS-IPMV
IP Video
Master Station
- PoE or 24V DC
- 3-1/2" LCD screen
- Hands-free communication with handset for privacy
- Wall or desk mount *(stand included)*

→ p. 75



IS-SOFT
PC Master
Station Software
(requires one IS-IP device)

→ p. 75

LAN/WAN

Door Strike and Power — 2 wires

Accessories



IS-MB
Mullion Mounting Bracket for IS-IPDV

→ p. 107



SBX-IDVF
Surface Mount Box for IS-IPDVF

→ p. 106



SBX-ISDVFP
Surface Mount Box for IS-IPDVF-HID or IS-IPDVF-RP10

→ p. 106



EL-12S
Electric Door Strike for Wood Frames *(requires PT-1210NA)*

→ p. 105

Door Station Features (for ALL IS Series)

- Digital PanTilt and Zoom camera eliminates blind spots with 170° wide angle lens

System Features (for ALL IS Series)

- Uses Cat-5e or Cat-6 structure cable
- For Local IP and Local Hardwired: 2-way communication with a full range of exchange functions, including time based call forwarding, scan monitoring, emergency call, priority call, and unit paging
- IP stations available for easy network communication
- PC master station records audio/video directly to PC
- Schedule bells and announcements (requires IS-CCU)
- Transfer hardwired door calls to a C/O line (requires IS-IPC)
- Forward missed calls automatically
- Paging with three priority levels
- Transfer door calls to any master station
- Standard door release wiring to door station or to IS-CCU and IS-SCU for added security (hardwired door stations only)
- Integration with Lenel® OnGuard® (7.2 release)

Specifications (for ALL IS Series)

Power Source	IS-CCU, IS-SCU, IS-RCU, IS-IPC: 48V DC — use IS-PU-UL IS-IPDV, IS-IPDVF, IS-IPDVF-HID, IS-IPDVF-RP10, IS-IPMV: 24V DC — use PS-2420UL or PoE (802.3af)
Network Interface	10 BASE-T/100 BASE-TX Ethernet (RJ-45)
Network Protocols	TCP, UDP, IGMP (Multicast), SIP, SMTP, HTTPS
Bandwidth Usage	320Kbps to 8Mbps
Software	OS: Windows® XP, Windows Vista® (32/64 bit), Windows® 7 (32/64 bit), Windows® 8 (32/64 bit), or Windows® 10 Processor: 2GHz or faster Memory: 1GB of RAM
Communication	Hands-free (VOX), push-to-talk (simplex), or handset (full-duplex)
Door Release	Programmable Form C dry contact, 24V AC/DC, 500mA — use EL-12S (use RY-1824L for larger contact rating, which requires 24V DC power supply)
Wire Type	Cat-5e or Cat-6
Distance	Variable wiring distances – see table on page 15 for network devices and see table on page 21 for hardwired devices

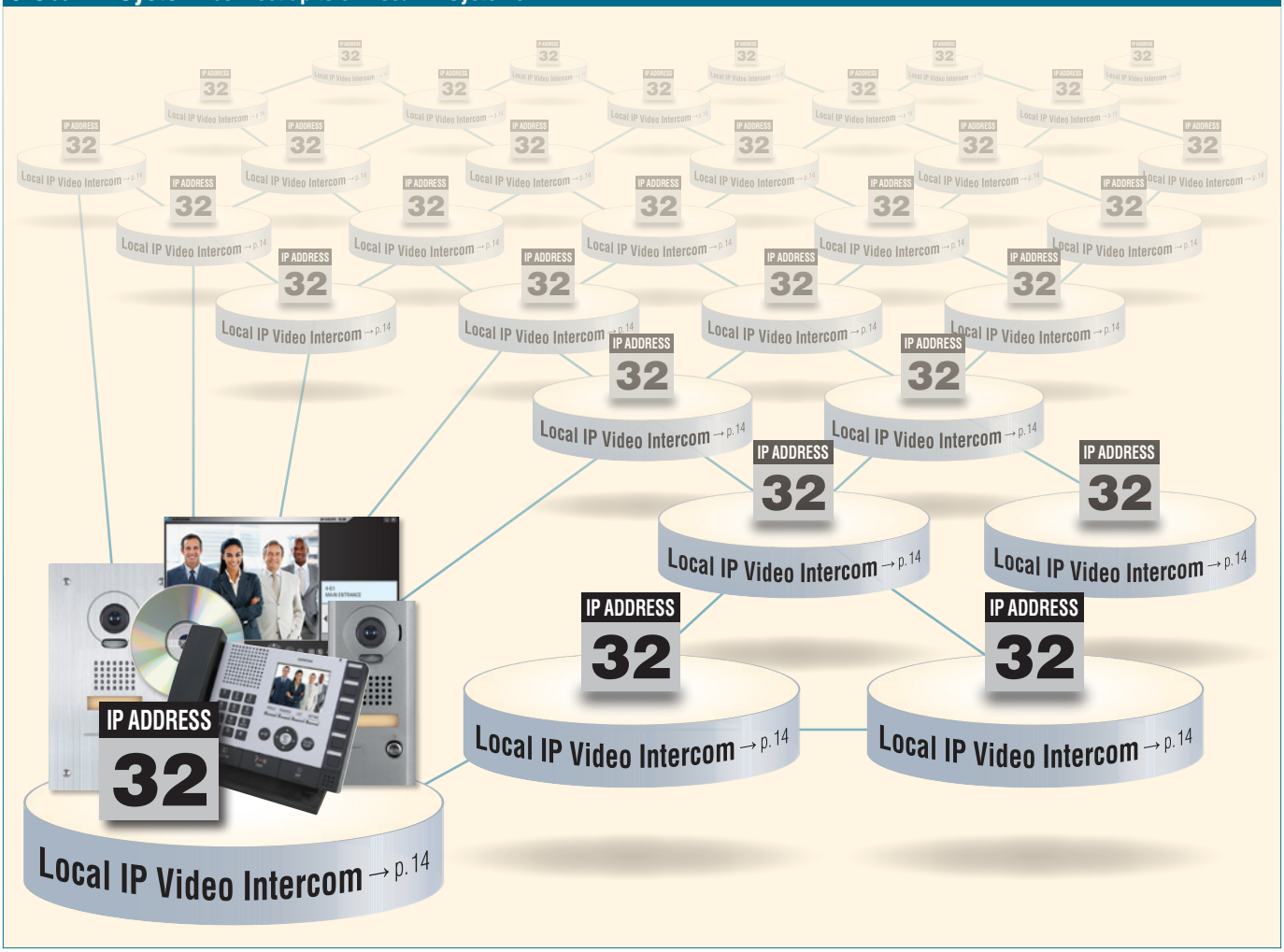
Camera View Area (for ALL IS Series)

See p. 15

IP ADDRESS 1,024 IS Series Global IP Video Intercom

QuikSpec

Global IP System: connect up to 32 Local IP Systems



Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
IS-IPC	3-7/16"	16-3/4"	11"	88	425	280
IS-IPDV	8-7/16"	4-1/8"	1-1/8"	215	105	28
IS-IPDVF	10-7/16"	5-7/8"	*	265	150	*
IS-IPMV	7-7/16"	9-13/16"	2-5/16"	189	250	59
IS-IPDVF-HID, IS-IPDVF-RP10	12-3/8"	7"	*	315	178	*

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

IS Series Network Wiring Distances with Cat-5e/6	
IS-IPDV, IS-IPDVF, IS-IPDVF-HID, IS-IPDVF-RP10, IS-IPMV, or IS-IPC to Network Node	330'

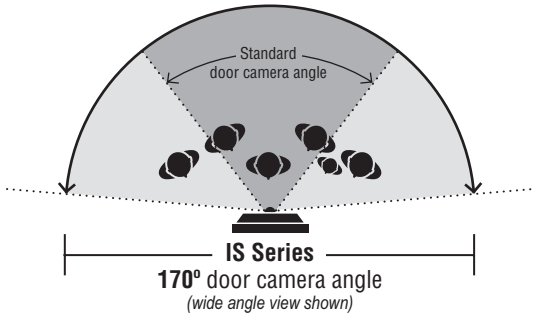
Features (for ALL IS Series)

See p. 14

Specifications (for ALL IS Series)

See p. 14

Camera View Area (for ALL IS Series)

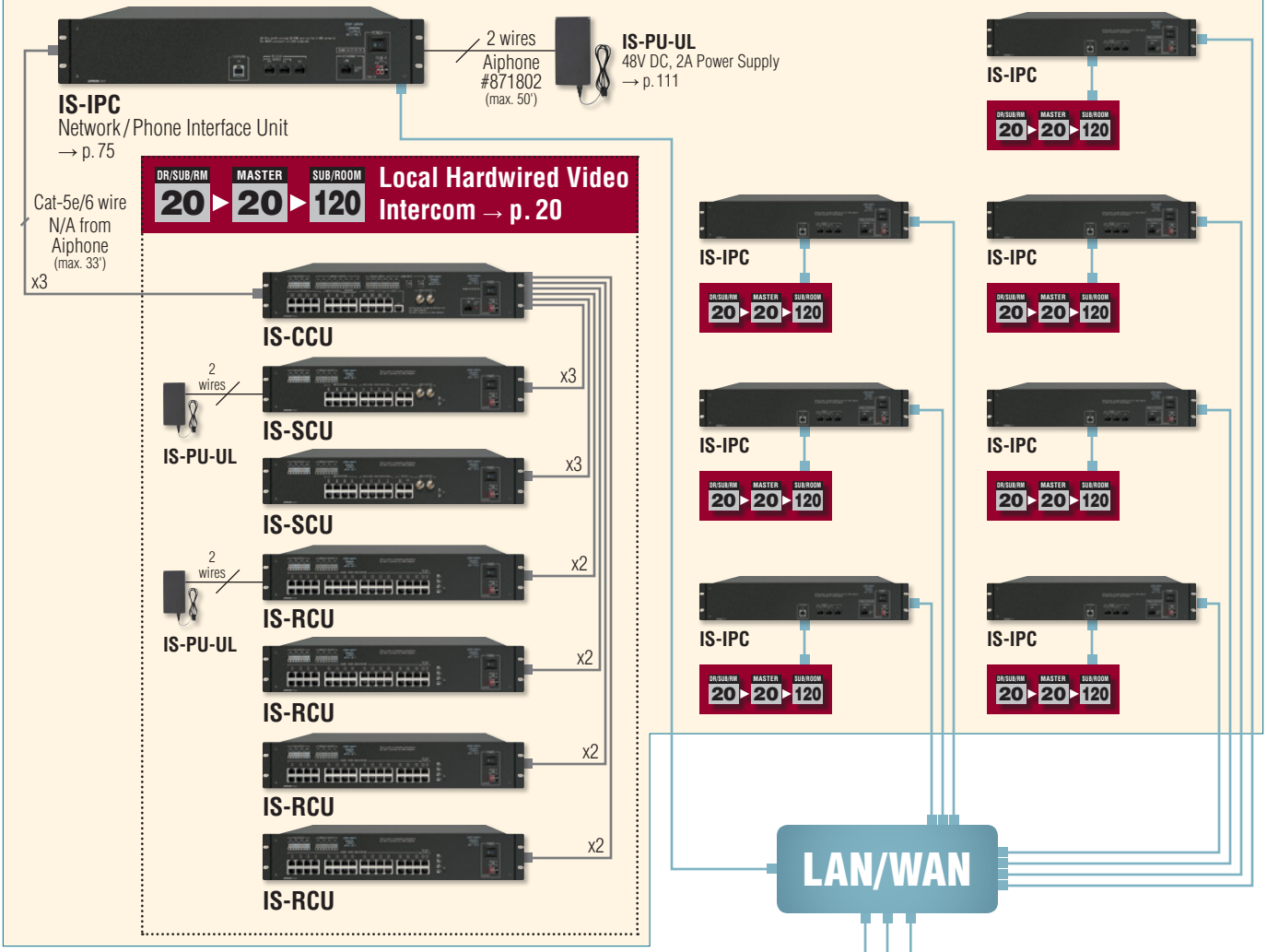


Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions.

DR/SUB/RM 160 x MASTER 160 x SUB/ROOM 960 IS Series Local Hybrid IP Video Intercom

QuikSpec

Local Hybrid IP System: connect up to 8 IS-IPCs per Local Hardwired System



IP Stations: mix and match up to 32 (including IS-IPC)



IS-IPDV
IP Video
Door Station
- PoE or 24V DC
- PTZ camera
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount

→ p. 76



IS-IPDVF
IP Video
Door Station
- PoE or 24V DC
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 77



IS-IPDVF-HID
IP Card Access
Video Door Station
- HID® ProxPoint® Plus Proximity Card Reader
- PoE or 24V DC
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 77



IS-IPDVF-RP10
IP Card Access
Video Door Station
- HID® multiCLASS SE® Proximity Card Reader
- PoE or 24V DC
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 77

2 wires

Door Strike and Power



IS-IPMV
IP Video Master Station
- PoE or 24V DC
- 3-1/2" LCD screen
- Hands-free communication with handset for privacy
- Wall or desk mount *(stand included)*

→ p. 75



IS-SOFT
PC Master
Station Software
(requires one IS-IP device)

→ p. 75

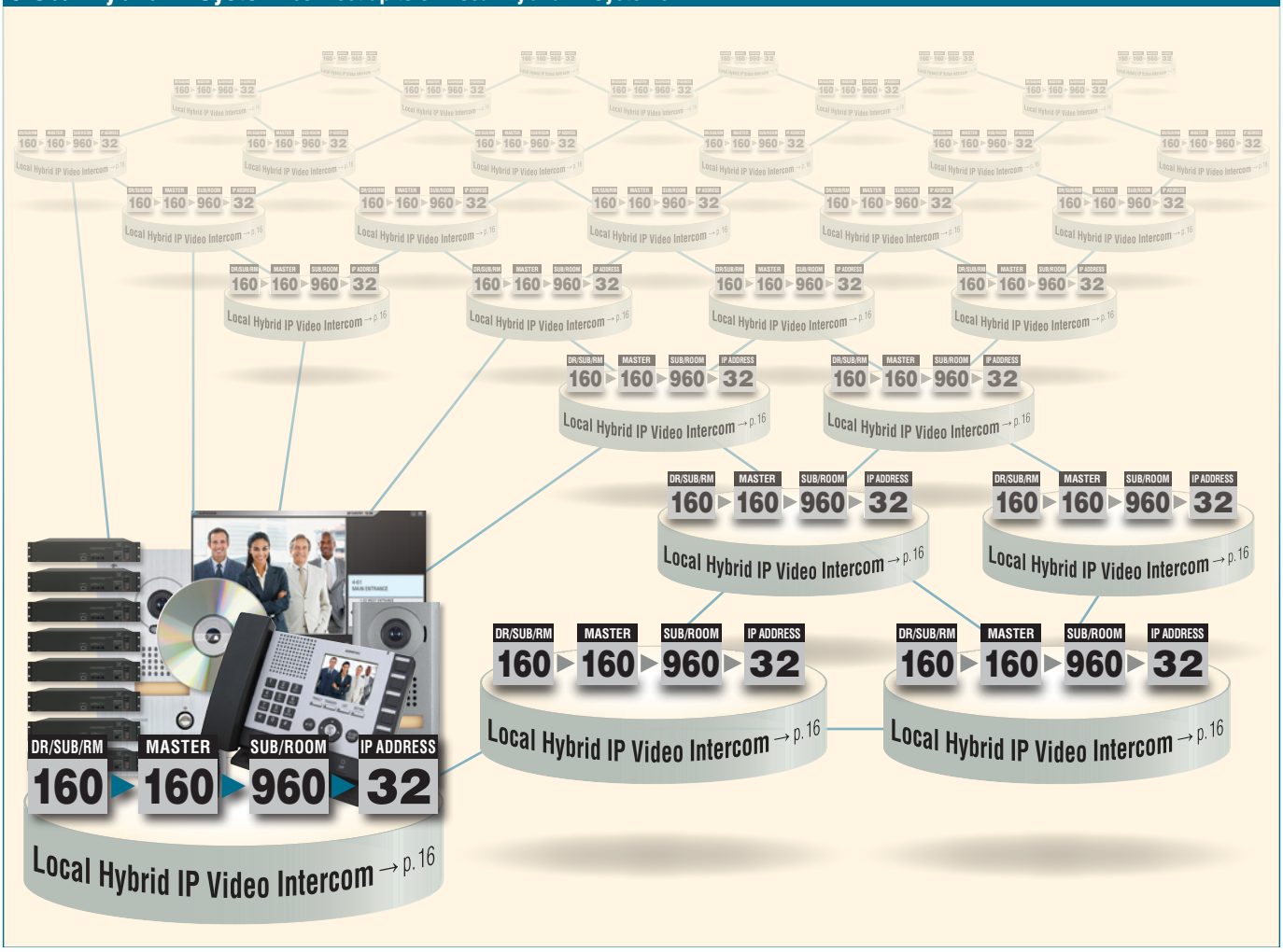
Features (for ALL IS Series)
See p. 14

Specifications (for ALL IS Series)
See p. 14

Camera View Area (for ALL IS Series)
See p. 15

IS Series Global Hybrid IP Video Intercom

Global Hybrid IP System: connect up to 32 Local Hybrid IP Systems



Multi-Site Rules

- A door station can call within its local site and one remote site
- A room station can call within its local site and one remote site
- A master station can call any remote site (one at a time)
- A master station can make a paging announcement to its local site or one other site

Wiring

There are many different wiring configurations possible with the IS Series.

For additional help, contact Aiphone's Technical Support.

800.692.0200



IP Device Table

NOTE: The quantity of IP stations per site is relative to the number of IS-IPCs, for a cumulative of 32 units total. A max. of 8 IS-IPCs can be used, allowing up to 24 additional IP devices per site.

IP Devices*	Max # per Local Site	Max # per Global System
IS-IPC	8	256
IS-IPMV	32	1,024
IS-IPDV		
IS-IPDVF		
IS-IPDVF-HID		
IS-IPDVF-RP10		
IS-SOFT**	31	992

* *Total number of IP devices can not exceed 32 units per Local Hybrid IP System (Local Site) and 1,024 per Global System.*

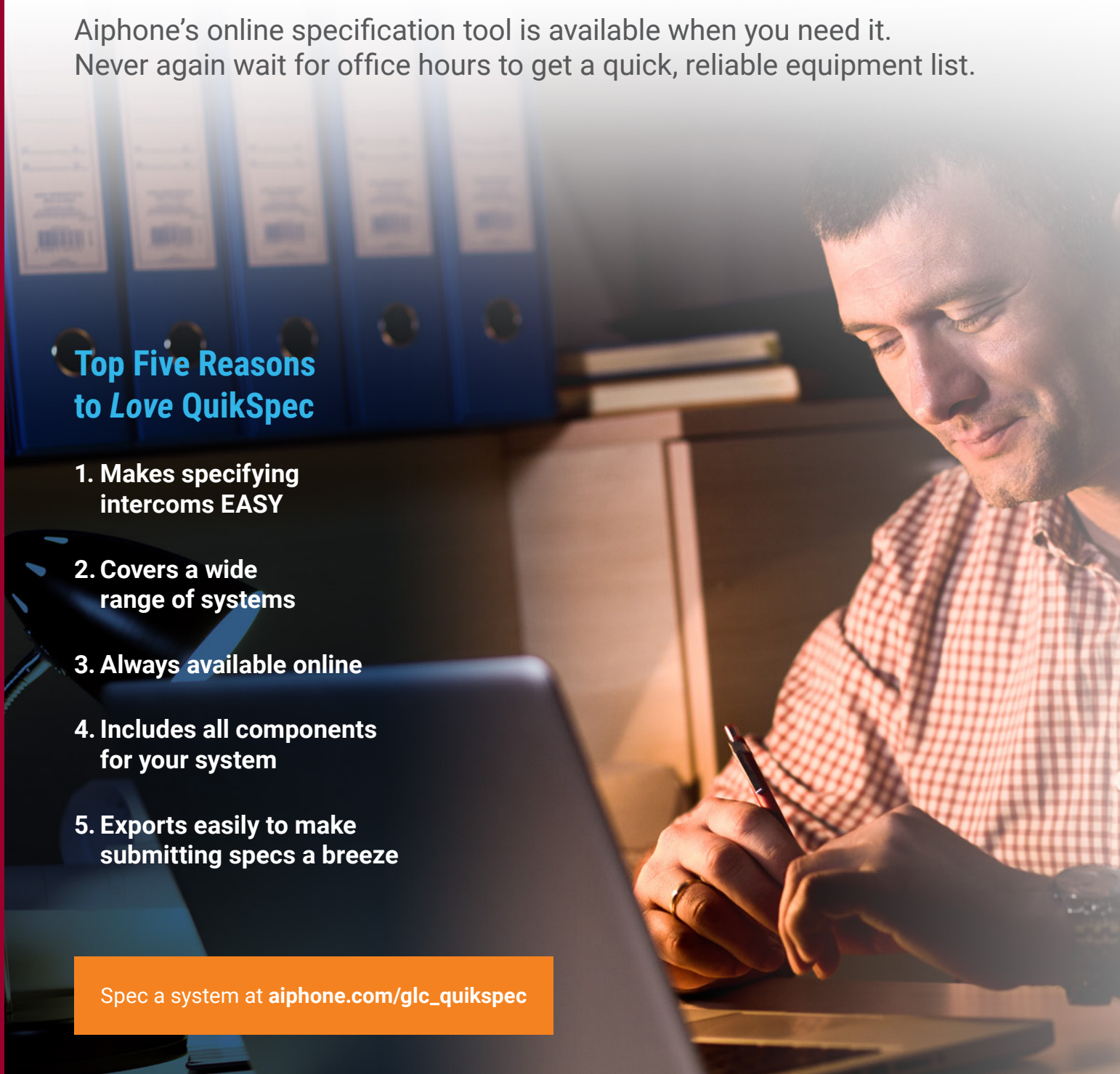
** *Requires PC speakers and microphone or standard headset for communication. IS-SOFT must be paired with at least one IS-IP device (IS-IPC, IS-IPMV, IS-IPDV, IS-IPDVF, IS-IPDVF-HID, or IS-IPDVF-RP10).*

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Video Intercoms

IS Series
Local Hardwired Video Intercom
→ p. 20



IS Series
Emergency Video Intercom
→ p. 22



JP Series
Hands-Free/Handset Video Intercom with 7" Touchscreen
→ p. 24



JO Series
Hands-Free Video Intercom with 7" Screen
→ p. 26



JF Series
Hands-Free Video Intercom
→ p. 28



AX Series
Hands-Free Video Intercom with Integration
→ p. 30



KB Series
Handset Video Intercom with Tilt
→ p. 32



Look for the QuikSpec Logo!

Aiphone's online system design tool ensures you will have the right parts to configure any one of our video intercom solutions.

quikspec.com

DR/SUB/RM 20 x MASTER 20 x SUB/ROOM 120 IS Series* Local Hardwired Video Intercom

Door/Sub Stations: mix and match up to 4 per IS-CCU



IS-DV
Video Door Station
- PTZ camera
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount

→ p. 76



IS-DVF
Video Door Station
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 77



IS-DVF-HID
Card Access Video Door Station
- HID® ProxPoint® Plus Proximity Card Reader
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 77



IS-DVF-RP10
Card Access Video Door Station
- HID® multiCLASS SE® Proximity Card Reader
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 77



IS-SS
Audio Door/Sub Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 76



IS-SS-2G
Audio Door/Sub Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 76



IS-RS
Audio Room Sub Station
- Hands-free communication with handset for privacy
- Indoor use
- Surface mount

→ p. 76

2 wires

Door Strike and Power

Output: 8Ω, 0.5 W



SP-2570N
8Ω, 25/70V, 5W Ceiling Speaker
→ p. 109

Door/Sub Stations: mix and match up to 8 per IS-SCU



IS-DV
→ p. 76



IS-DVF
→ p. 77



IS-DVF-HID
→ p. 77



IS-DVF-RP10
→ p. 77



IS-SS
→ p. 76



IS-SS-2G
→ p. 76



SP-2570N
8Ω, 25/70V, 5W Ceiling Speaker
→ p. 109

Output: 8Ω, 0.5 W



IS-RS
→ p. 76

2 wires

Door Strike and Power

*Expand the IS Series over a network! See p. 16–17

DR/SUB/RM 5,120 ▶ MASTER 5,120 ▶ SUB/ROOM 30,720 ▶ IP ADDRESS 1,024



IS-IPC
Network/Phone Interface Unit *(requires IS-PU-UL)*
- Connects a local hardwired system to a network
- Provides a telephone line connection to forward calls from hardwired door/sub/room stations

→ p. 75

Central Control Unit



IS-CCU
Central Control Unit
- Supports up to 4 master stations and 4 door/sub/room stations
- 8 dry contacts *(up to 4 can be used for door release)*

→ p. 75



IS-PU-UL
48V DC, 2A Power Supply
→ p. 111

2 wires
Aiphone #871802
(max. 50')

Cat-5e/6 wire
N/A from Aiphone
(variable wiring distances, see table on next page)

Composite Video Output

Add-On Control Unit: select up to 2 per IS-CCU



IS-SCU
Add-On Central Control Unit
- Supports up to 8 master stations and 8 door/sub/room stations
- 4 dry contacts

→ p. 75

x3



PS

IS-SCU



IS-PU-UL
48V DC, 2A Power Supply
→ p. 111

2 wires
Aiphone #871802
(max. 50')

Composite Video Output

Room Station Control Unit: select up to 4 per IS-CCU



IS-RCU
Room Station Control Unit
- Supports up to 30 audio sub/room stations
- 4 dry contacts

→ p. 75

x2



PS

IS-RCU

x2



PS

IS-RCU

x2



PS

IS-RCU



IS-PU-UL
48V DC, 2A Power Supply
→ p. 111

2 wires
Aiphone #871802
(max. 50')

Master Station: select up to 4 per IS-CCU



IS-MV
Video Master Station
- Hands-free communication with handset for privacy
- Wall or desk mount *(stand included)*

→ p. 75

Master Station: select up to 8 per IS-SCU



IS-MV
Video Master Station
- Hands-free communication with handset for privacy
- Wall or desk mount *(stand included)*

→ p. 75

Cat-5e/6 wire N/A from Aiphone (max. 980')

Audio Output 600Ω

Composite Video Output

Cat-5e/6 wire N/A from Aiphone (max. 980')

Audio Output 600Ω

Composite Video Output

Room / Sub Stations: mix and match up to 30 per IS-RCU

Output: 8Ω, 0.5 W



SP-2570N
8Ω, 25/70V, 5W Ceiling Speaker
→ p. 109



IS-RS
→ p. 76



IS-SS
→ p. 76



IS-SS-2G
→ p. 76

NOTE: *IS-SS and IS-SS-2G are weather and vandal resistant.*

Cat-5e/6 wire – N/A from Aiphone (variable wiring distances, see table below)

2 wires

Door Strike and Power

Accessories



TW-SPL
Tower Mounting Plate for IS-DVF or IS-SS
(adapts standard door station to an Aiphone tower or wall box)
→ p. 87



IS-MB
Mullion Mounting Bracket for IS-DV
→ p. 107



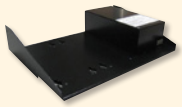
SBX-2G/A
Surface Mount Box for IS-SS-2G
→ p. 106



SBX-IDVF
Surface Mount Box for IS-DVF or IS-SS
→ p. 106



SBX-ISDVFP
Surface Mount Box for IS-DVF-HID or IS-DVF-RP10
→ p. 106



IS-RACK
19" Rack Mount for up to 3 IS-PU-ULs
(image shown with 1 IS-PU-UL)
→ p. 111



EL-12S
Electric Door Strike for Wood Frames
(requires PT-1210NA)
→ p. 105

Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
IS-CCU, IS-IPC, IS-SCU, IS-RCU	3-7/16"	16-3/4"	11"	88	425	280
IS-DV	8-7/16"	4-1/8"	1-1/8"	215	105	28
IS-DVF	10-7/16"	5-7/8"	*	265	150	*
IS-DVF-HID, IS-DVF-RP10	12-3/8"	7"	*	315	178	*
IS-MV	7-7/16"	9-13/16"	2-5/16"	189	250	59
IS-RS	7-13/16"	4-9/16"	2-1/2"	199	116.5	64
IS-SS	10-7/16"	5-7/8"	*	265	150	*
IS-SS-2G	4-3/4"	4-3/4"	*	120	120	*

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

IS Series Wiring Distances with Cat-5e/6

IS-DV, IS-DVF, IS-DVF-HID, IS-DVF-RP10, IS-SS, or IS-SS-2G to IS-CCU, IS-SCU, or IS-RCU	980'
IS-MV to IS-CCU or IS-SCU	980'
IS-RS to IS-CCU, IS-SCU, or IS-RCU	490'
IS-CCU to IS-SCU (x3 wires)	650'
IS-CCU to IS-RCU (x2 wires)	650'
IS-CCU to IS-IPC (x3 wires)	33'
IS-RCU to IS-IPC (x2 wires)	33'
IS-IPC to Network Node	330'
IS-PU-UL to IS-CCU, IS-SCU, or IS-RCU	50'

Wiring

There are many different wiring configurations possible with the IS Series.

For additional help, contact Aiphone's Technical Support.

800.692.0200



Features

See p. 14

Specifications

See p. 14

Camera View Area

See p. 15

Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions.

IS Series Emergency Video Intercom

Emergency Wall Boxes, Modular Towers, & Solar Tower Sets (optional)



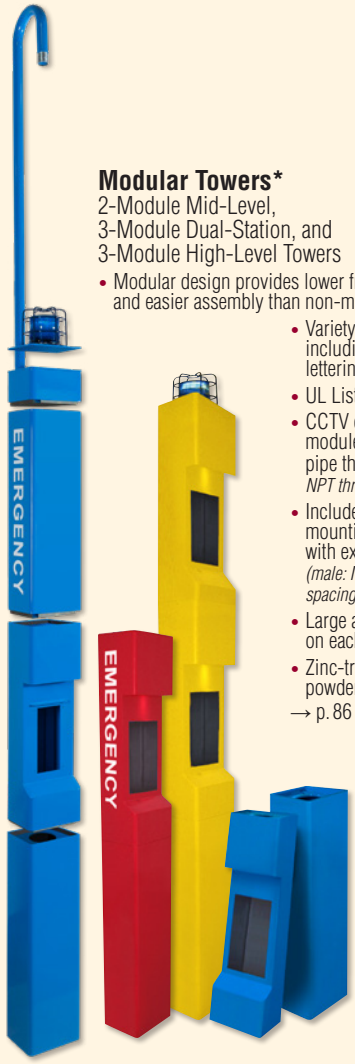
WB-CA* *(cage)*
WB-HA* *(hood)*
ADA Compliant Wall Box
- Beacon/strobe light
- ASSISTANCE lettering
- UL Listed electrical box
- Stainless steel enclosure with slim, 4" depth
- Wall mount

→ p. 85



WB-CE* *(cage)*
WB-HE* *(hood)*
ADA Compliant Wall Box
- Beacon/strobe light
- EMERGENCY lettering
- UL Listed electrical box
- Stainless steel enclosure with slim, 4" depth
- Wall mount

→ p. 85



Modular Towers*
2-Module Mid-Level,
3-Module Dual-Station, and
3-Module High-Level Towers
- Modular design provides lower freight costs and easier assembly than non-modular towers
- Variety of configurations, including size, lettering, and colors
- UL Listed electrical box
- CCTV camera arm module with universal pipe threading *(1.50" NPT threading x 1" long)*
- Includes accessory mounting hardware with external threads *(male: M3 x .05, 1-gang spacing pattern)*
- Large access panel on each module
- Zinc-treated steel with powder coating

→ p. 86



PS-2420UL
24V DC, 2A Power Supply
→ p. 111

*Power supply required for beacon/strobe light with Wall Box or Tower
2 wires – Aiphone #871802
(max. 980')

Emergency Stations: mix and match up to 4 per IS-CCU



IS-DVF-2RA
ADA Compliant Video Emergency Station
- PTZ camera
- Connects to IS-CCU or IS-SCU
- Two call buttons
- Lettering and braille signage
- LED call status indicator
- 2 Form C relay outputs
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 78



IS-SS-2RA-R
ADA Compliant Audio Emergency Station
- Connects to IS-CCU or IS-SCU
- Two call buttons
- Lettering and braille signage
- LED call status indicator
- 2 Form C relay outputs
- CCTV input
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 78



IS-SS-RA-R
ADA Compliant Audio Emergency Station
- Connects to IS-CCU or IS-SCU
- Lettering and braille signage
- LED call status indicator
- 2 Form C relay outputs
- CCTV input
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 78

Cat-5e/6 wire
N/A from Aiphone
(max. 980')



IS-DVF-2RA-FR
IS-DVF-2RA Emergency Station with French Labels
→ p. 78

Emergency Stations: mix and match up to 8 per IS-SCU



IS-DVF-2RA
→ p. 78

IS-DVF-2RA-FR
→ p. 78



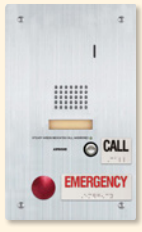
IS-SS-2RA-R
→ p. 78



IS-SS-RA-R
→ p. 78

Cat-5e/6 wire
N/A from Aiphone
(max. 980')

Emergency Stations: mix and match up to 30 per IS-RCU



IS-SS-2RA-R
ADA Compliant Audio Emergency Station
- Connects to IS-CCU, IS-SCU, or IS-RCU
- Lettering and braille signage
- LED call status indicator
- Two call buttons
- 2 Form C relay outputs
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 78



IS-SS-RA-R
ADA Compliant Audio Emergency Station
- Connects to IS-CCU, IS-SCU, or IS-RCU
- Lettering and braille signage
- LED call status indicator
- 2 Form C relay outputs
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 78

Cat-5e/6 wire
N/A from Aiphone
(max. 980')

Features See p. 14
Specifications See p. 14
Camera View Area See p. 15

Central Control Unit



IS-CCU
Central Control Unit
- Supports up to 4 master stations and 4 door/sub/room stations
- 8 dry contacts *(up to 4 can be used for door release)*

→ p. 75



IS-PU-UL
48V DC, 2A Power Supply
→ p. 111

2 wires
Aiphone #871802
(max. 50')

Cat-5e/6 wire
N/A from Aiphone
(variable wiring distances, see table below)

Composite Video Output

Cat-5e/6 wire
N/A from Aiphone
(max. 980')

Master Station: select up to 4 per IS-CCU



IS-MV
Video Master Station
- Hands-free communication with handset for privacy
- Wall or desk mount *(stand included)*

→ p. 75

Add-On Control Unit: select up to 2 per IS-CCU



IS-SCU
Add-On Central Control Unit
- Supports up to 8 master stations and 8 door/sub/room stations
- 4 dry contacts

→ p. 75

x3



IS-PU-UL
48V DC, 2A Power Supply
→ p. 111

2 wires
Aiphone #871802
(max. 50')

x3



IS-SCU

Composite Video Output

Cat-5e/6 wire
N/A from Aiphone
(max. 980')

Master Station: select up to 8 per IS-SCU



IS-MV
Video Master Station
- Hands-free communication with handset for privacy
- Wall or desk mount *(stand included)*

→ p. 75

Room Station Control Unit: select up to 4 per IS-CCU



IS-RCU
Room Station Control Unit
- Supports up to 30 audio sub/room stations
- 4 dry contacts

→ p. 75

x2



IS-PU-UL
48V DC, 2A Power Supply
→ p. 111

2 wires
Aiphone #871802
(max. 50')

x2



IS-RCU

x2



IS-RCU

x2



IS-RCU

Network/Phone Interface Unit: select 1 per IS-CCU



IS-IPC
Network/Phone Interface Unit *(recommended only for telephone line transfer with emergency applications)*

→ p. 75

x3



Telephone Line Transfer

2 wires
Aiphone #871802
(max. 50')



IS-PU-UL
48V DC, 2A Power Supply
→ p. 111

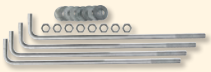
Accessories



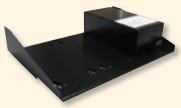
MB-RF1
Retrofit Mounting Bracket for IS-DVF-2RA, IS-DVF-2RA-FR, IS-SS-2RA-R, or IS-SS-RA-R
(adapts emergency station to an existing Code Blue® or Talk-A-Phone® tower or wall box)
→ p. 108



SBX-IDVFRA
Surface Mount Box for IS-DVF-2RA, IS-DVF-2RA-FR, IS-SS-2RA-R, or IS-SS-RA-R
→ p. 106



TW-MKL
L-Bolt Mounting Kit for Modular Towers
(an L-bolt mounting kit is required for tower installation – TW-MKL is recommended)
→ p. 87



IS-RACK
19" Rack Mount for up to 3 IS-PU-ULs
(image shown with 1 IS-PU-UL)
→ p. 111

Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
IS-CCU, IS-IPC, IS-SCU, IS-RCU	3-7/16"	16-3/4"	11"	88	425	280
IS-DVF-2RA, IS-DVF-2RA-FR, IS-SS-2RA-R, IS-SS-RA-R	11-11/16"	7"	*	297	178	*
IS-MV	7-7/16"	9-13/16"	2-5/16"	189	250	59
WB-CA, WB-CE	26"	10-9/16"	4"	660	203	102
WB-HA, WB-HE	27"	10-13/16"	4"	686	203	102
TW-20/A Series	67-1/4"	10"	8"	1708	254	203
TW-22/A Series, TW-23/A Series	100-1/4"	10"	8"	2546	254	203

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

IS Series Wiring Distances with Cat-5e/6

IS-DVF-2RA, IS-DVF-2RA-FR, IS-SS-2RA-R, or IS-SS-RA-R to IS-CCU, IS-SCU, or IS-RCU	980'
IS-MV to IS-CCU or IS-SCU	980'
IS-CCU to IS-SCU (x3 wires)	650'
IS-CCU to IS-RCU (x2 wires)	650'
IS-CCU to IS-IPC (x3 wires)	33'
IS-RCU to IS-IPC (x2 wires)	33'
IS-PU-UL to IS-CCU, IS-SCU, IS-RCU, or IS-IPC	50'

DOOR 4 x MSTR/SUB 8

JP Series Hands-Free/Handset Video Intercom w/ 7" Touchscreen

Box Sets: select 1 (up to 3 door stations and 7 sub master stations can be added)



START with a BOX SET

JPS-4AED
Box Set with JP-DA, JP-4MED, and PS-2420UL

JPS-4AEDV
Box Set with JP-DV, JP-4MED, and PS-2420UL

JPS-4AEDF
Box Set with JP-DVF, JP-4MED, and PS-2420UL

Master Station

Removable media storage!
SD* or SDHC* card can store up to 1,000 calls!
*Not included



JP-4MED
Video Master Station
(included with all JPS box sets)
- 7" LCD touchscreen
- Picture Memory
- Removable media storage *(memory card not included)*
- Hands-free communication with handset for privacy

→ p. 92

Cat-5e/6 wire
N/A from Aiphone
(max. 650' between master and adaptor)

Door Stations: mix and match up to 4 (only up to 3 if a box set is selected)



JP-DA
Video Door Station
(included with JPS-4AED box set)
- PTZ camera
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 93



JP-DV
Video Door Station
(included with JPS-4AEDV box set)
- PTZ camera
- Zinc die cast cover
- Weather and vandal resistant
- Surface mount

→ p. 93



JP-DVF
Video Door Station
(included with JPS-4AEDF box set)
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 93



JP-DVF-HID
Card Access Video Door Station
- HID® ProxPoint® Plus Proximity Card Reader
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 93



JP-DVF-RP10
Card Access Video Door Station
- HID® multiCLASS SE® Proximity Card Reader
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 93



GT-D
Audio Door Station
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 69

2 wires Aiphone #871802 (max. 330')

2 wires

2 wires Aiphone #871802 (max. 33')

Door Strike and Power



PS-2420UL
(included with all JPS box sets)
24V DC, 2A Power Supply

→ p. 111

Door Station Features

- Digital PanTilt and Zoom camera eliminates blind spots with 170° wide angle lens (video door stations)
- Card access door stations available

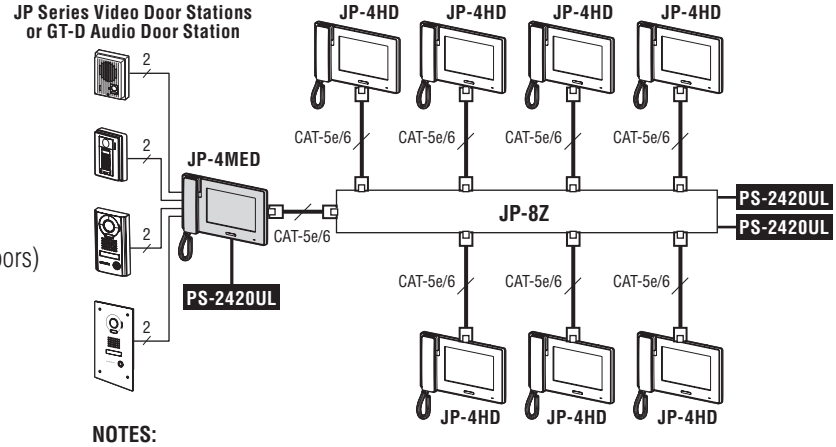
Master Station Features

- 7" LCD touchscreen
- Hands-free or handset communication
- Camera position and zoom can be set for call-in
- Includes two N/O door release contacts (add RY-3DL for 3 or 4 doors)
- Camera can be adjusted to compensate for bright illumination
- Picture memory records up to 20 calls to internal memory and max. 1,000 calls to removable SD/SDHC card (not included)
- Entry can be monitored via the master and sub master stations
- 1 output to control a secondary device like a light, gate, or additional door
- Video out to DVR via supplied connector

System Features

- Convenient box sets are complete with a master station, each with a different door station, and a power supply (up to 3 more door stations and 7 sub master stations can be added for a full 4x8 system)
- Homerun or daisy chain wiring options (see installation manual for details)

Wiring



NOTES:
1. Total cumulative wiring distance between master and sub master stations is 980' (300m)
2. Master station (JP-4MED) requires 1 power supply
3. Up to 4 sub master stations (JP-4HD) can use 1 power supply (use 2 power supplies for additional sub master stations)

Distribution Adaptor
(required for homerun wiring method)



JP-8Z
Distribution Adaptor for Video Sub Master Stations
→ p. 92

2 wires
Aiphone #871802
(max. 33')



PS-2420UL
24V DC, 2A Power Supply
→ p. 111

2 wires
Aiphone #871802
(max. 33')



PS-2420UL
24V DC, 2A Power Supply
→ p. 111

Cat-5e/6 wire
N/A from Aiphone
(max. 165' between adaptor and sub masters)

Sub Master Station: select up to 7 (optional)



JP-4HD
Video Sub Master Station
- 7" LCD touchscreen
- Hands-free communication with handset for privacy

→ p. 92



JP-4HD → p. 92



JP-4HD → p. 92



JP-4HD → p. 92



JP-4HD → p. 92



JP-4HD → p. 92



JP-4HD → p. 92

Accessories



AC-10S
Stand-Alone Access Control Keypad
(body style matches JP-DV)
→ p. 105



KAW-D
30˚ Angle Box for JP-DA
→ p. 107



MKW-P
1-Gang Mounting Plate for JP-DV
→ p. 108



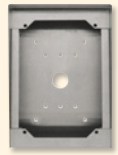
KMB-45
45˚ Mullion Mounting Bracket for GT-D or JP-DA
→ p. 107



JK-MB
Mullion Mounting Bracket for JP-DV
→ p. 107



SBX-DV30
30˚ Angle Box for JP-DV
→ p. 107



SBX-DVF
Surface Mount Box for JP-DVF
→ p. 106



SBX-IDVFRA
Surface Mount Box for JP-DVF-HID or JP-DVF-RP10
→ p. 106



SBX-ACE
Surface Mount Box for GT-D or JP-DA and one Access Control Device
→ p. 106



JPW-BA
Long Distance/ CCTV Adaptor for Door Stations
→ p. 92



EL-12S
Electric Door Strike for Wood Frames
(requires PT-1210NA)
→ p. 105



RY-1824L
Form C Door Release Relay
(1 per door – max. 2 per system)
→ p. 105



RY-3DL
Selective Door Release Adaptor
(for 3 or 4 doors – 4 doors require 1 RY-3DL and 1 RY-1824L)
→ p. 105



IER-2
Call Extension Speaker
→ p. 105

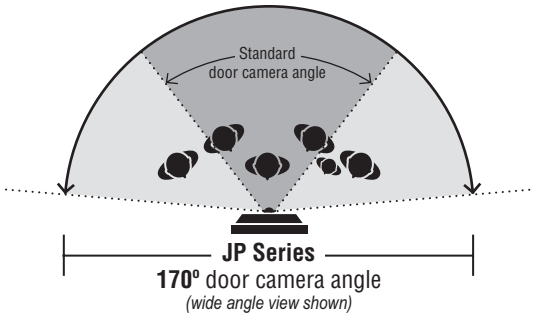


RY-ES
External Signaling Relay
→ p. 110



MCW-S/A
Desk Stand for JP-4MED or JP-4HD
(mounting hardware included)
→ p. 108

Camera View Area



170º door camera angle
(wide angle view shown)

Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
GT-D	5-1/8"	3-7/8"	1-1/8"	130	98	28.5
JP-4MED, JP-4HD	5-11/16"	10-1/16"	1-7/8"	145	255	48
JP-8Z	4-5/16"	4-13/16"	2-3/8"	109	123	61
JP-DA	5-1/16"	3-13/16"	1-3/16"	129	97	30.5
JP-DV	6-13/16"	3-7/8"	1-1/16"	173	98	27
JP-DVF	8-1/4"	5-5/16"	*	209	135	*
JP-DVF-HID, JP-DVF-RP10	11-11/16"	7"	*	297	178	*

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

Specifications

Power Source 24V DC — use PS-2420UL

Communication Hands-free (VOX) or handset (full-duplex)

Door Release N/O dry contact, 24V AC/DC, 500mA — use EL-12S (use RY-1824L or RY-3DL for larger contact rating)

Wire Type Door Station to Master Station: 2-cond., mid cap, solid, non-shielded — use Aiphone #871802

Power Supply to Master Station: 2-cond., mid cap, solid, non-shielded — use Aiphone #871802

Master Station to Adaptor: Cat-5e or Cat-6

Adaptor to Sub Master Station: Cat-5e or Cat-6

Distance Door Station to Master Station: 330'

Master Station to Distribution Adaptor: 650'

Distribution Adaptor to Sub Master Station: 165'

Door Station to Long Distance/CCTV Adaptor: 650'

Long Distance/CCTV Adaptor to Master Station: 330'

Power Supply to Master Station: 16' (22 AWG) 33' (18 AWG)

Power Supply to Distribution Adaptor: 16' (22 AWG) 33' (18 AWG)

Total Cumulative Between Inside Stations: 980'

Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions.

DOOR 2 x MSTR/EXP 2 x APP 8 JO Series Hands-Free Video Intercom with 7" Screen

Box Sets: select 1 (a JO-DV and a JO-1FD can be added to any box set – up to 8 apps can be added to the app-compatible sets)

Box Sets with App-Compatible Master Station



JOS-1AW
Box Set with JO-DA, JO-1MDW, and PS-1820UL

JOS-1VW
Box Set with JO-DV, JO-1MDW, and PS-1820UL

JOS-1FW
Box Set with JO-DVF, JO-1MDW, and PS-1820UL

Box Sets (no app capability)



JOS-1A
Box Set with JO-DA, JO-1MD, and PS-1820UL

JOS-1V
Box Set with JO-DV, JO-1MD, and PS-1820UL

JOS-1F
Box Set with JO-DVF, JO-1MD, and PS-1820UL

START with a BOX SET

Door Stations: select a box set (see left) and a single JO-DV for the second door station option



JO-DA
Video Door Station
(included with JOS-1A and JOS-1AW box sets – not sold separately)
- Fixed camera
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 91



JO-DV
Video Door Station
(included with JOS-1V and JOS-1VW box sets – also sold separately)
- Fixed camera
- Zinc die cast cover
- Weather and vandal resistant
- Surface mount

→ p. 91



JO-DVF
Video Door Station
(included with JOS-1F and JOS-1FW box sets – not sold separately)
- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 91

2 wires Aiphone #871802 (max. 330')

2-Door Station Adaptor (required for 2 door stations)



JOW-2D
2-Door Station Adaptor
→ p. 91

NOTE: *The second door station must be the JO-DV, which is sold separately.*

2 wires — Door Strike and Power

2 wires — Door Strike and Power

6 wires Aiphone #871802 x 3 (max. 330')



PS-1820UL
(included with all JOS box sets)
18V DC, 2A Power Supply
→ p. 111

2 wires Aiphone #871802 (max. 33')

Expansion Station (optional)



JO-1FD
Video Expansion Station
- 7" LCD screen
- Touch buttons
- Hands-free or push-to-talk communication

→ p. 90

IMPORTANT WIRING NOTICE:
When the optional JO-1FD is part of the system, it must be wired in between the door station and master station (as shown in the wiring example **WITH** JO-1FD).

Door Station Features

- Fixed camera provides clear visitor identification

Master Station Features

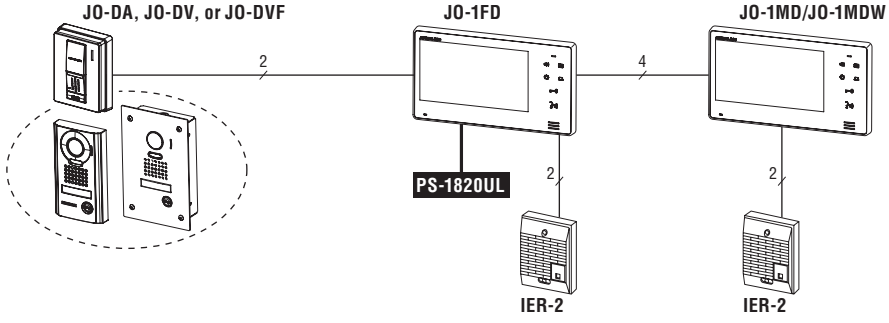
- Compact, attractive design complements most interiors
- Hands-free or push-to-talk communication
- N/O door release contact
- Screen brightness control
- Video monitoring
- 1 output to control a secondary device like a light or gate

System Features

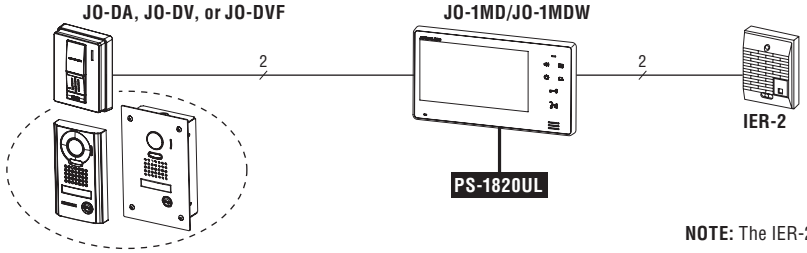
- Up to 8 mobile apps can be connected (requires JO-1MDW)
- Convenient box sets are complete with a master station, each with a different door station, and a power supply (1 expansion master station can be added for a full 1x2 system)
- Simple daisy chain wiring

Wiring

Example WITH JO-1FD



Example WITHOUT JO-1FD



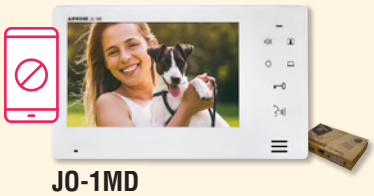
NOTE: The IER-2 is optional.

Master Station: select 1 (none if a box set is selected)



JO-1MDW
App-Compatible Video Master Station
(included with JOS-1AW, JOS-1VW, and JOS-1FW box sets – also sold separately)
- Connect up to 8 free mobile apps
- 7" LCD touchscreen
- Built-in expandable memory for recording calls
- Hands-free or push-to-talk communication

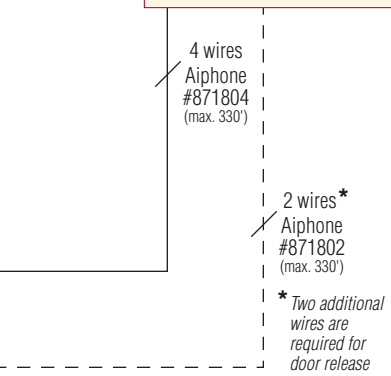
→ p. 90



JO-1MD
Video Master Station
(included with JOS-1A, JOS-1V, and JOS-1F box sets – not sold separately and not app-compatible)
- 7" LCD screen
- Touch buttons
- Hands-free or push-to-talk communication

→ p. 90

IMPORTANT WIRING NOTICE:
When the optional JO-1FD is not part of the system, the door station, power supply, and door strike all wire directly to the JO-1MD or JO-1MDW (as shown in the wiring example **WITHOUT** JO-1FD).



Virtual Expansion Station Mobile App



Intercom App Type B
Virtual Expansion Station Mobile App for Smartphones and Tablets
(requires JO-1MDW)
- Up to 8 free mobile apps per system
- Calls can be answered and doors can be unlocked while on-the-go
- Hands-free or push-to-talk communication
- Available on Google Play™ *(Google Play is a trademark of Google LLC.)*
- Available on the App Store℠ *(App Store is a service mark of Apple Inc.)*

→ p. 90

Accessories



AC-10S
Stand-Alone Access Control Keypad
(body style matches JO-DV)
→ p. 105



KAW-D
30˚ Angle Box for JO-DA
→ p. 107



MKW-P
1-Gang Mounting Plate for JO-DV
→ p. 108



KMB-45
45˚ Mullion Mounting Bracket for JO-DA
→ p. 107



JK-MB
Mullion Mounting Bracket for JO-DV
→ p. 107



SBX-DV30
30˚ Angle Box for JO-DV
→ p. 107



SBX-DVF
Surface Mount Box for JO-DVF
→ p. 106



SBX-ACE
Surface Mount Box for JO-DA and one Access Control Device
→ p. 106



EL-12S
Electric Door Strike for Wood Frames
(requires PT-1210NA)
→ p. 105



RY-1824L
Form C Door Release Relay
→ p. 105



IER-2
Call Extension Speaker
→ p. 105



RY-ES
External Signaling Relay
→ p. 110



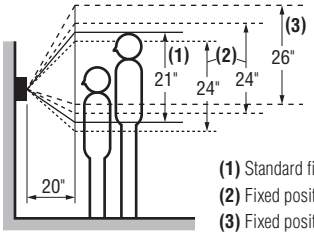
MCW-S/A
Desk Stand for JO-1MD, JO-1MDW, or JO-1FD *(mounting hardware included)*
→ p. 108

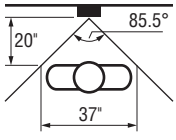
Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
JO-1MD, JO-1FD	5-1/8"	9-1/16"	13/16"	130	230	21
JO-1MDW	6-1/8"	8-1/4"	1-1/16"	155	210	27
JO-DA	5-1/16"	3-13/16"	1-3/8"	129	97	35.5
JO-DV	6-13/16"	3-7/8"	1-1/16"	173	98	26.8
JO-DVF	8-1/4"	5-5/16"	*	209	135	*

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

Camera View Area





(1) Standard fixed position (all door stations)
(2) Fixed position with ±7° angle (JO-DA only)
(3) Fixed position with 17° angle (JO-DA only)

Specifications

Power Source 18V DC — use PS-1820UL

Communication Hands-free (VOX) or push-to-talk (simplex)

Door Release JO-1MDW: N/O dry contact, 24V AC/ DC, 1A — use EL-12S

JO-1MD, JO-1FD: N/O dry contact, 24V AC/DC, 500mA — use EL-12S

Wire Type Door Station to Master Station: 2-cond., mid cap, solid, non-shielded — use Aiphone #871802

Door Station to Expansion Station: 2-cond., mid cap, solid, non-shielded — use Aiphone #871802

Expansion Station to Master Station: 4-cond., mid cap, solid, non-shielded — use Aiphone #871804

Expansion Station to Master Station (with door release): 6-cond., mid cap, solid, non-shielded — use Aiphone #871804 + #871802

Distance Door Station to Master Station: 165' (22 AWG) 330' (18 AWG)

Door Station to Expansion Station: 165' (22 AWG) 330' (18 AWG)

Expansion Station to Master Station: 165' (22 AWG) 330' (18 AWG)

Power Supply to Master Station: 16' (22 AWG) 33' (18 AWG)

DOOR 2 x MSTR/SUB 3 JF Series Hands-Free Video Intercom

Box Sets: select 1 (a single door station and 2 sub master stations can be added to any box set selection)



START with a BOX SET

JFS-2AED
Box Set with JF-DA, JF-2MED, and PS-1820UL

JFS-2AEDV
Box Set with JF-DV, JF-2MED, and PS-1820UL

JFS-2AEDF
Box Set with JF-DVF, JF-2MED, and PS-1820UL

Door Stations: mix and match up to 2 (only 1 if a box set is selected – max. 1 audio door station per system)



JF-DA
Video Door Station
(included with JFS-2AED box set)
- Fixed camera
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 89



JF-DV
Video Door Station
(included with JFS-2AEDV box set)
- Fixed camera
- Zinc die cast cover
- Weather and vandal resistant
- Surface mount

→ p. 89



JF-DVF
Video Door Station
(included with JFS-2AEDF box set)
- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 89



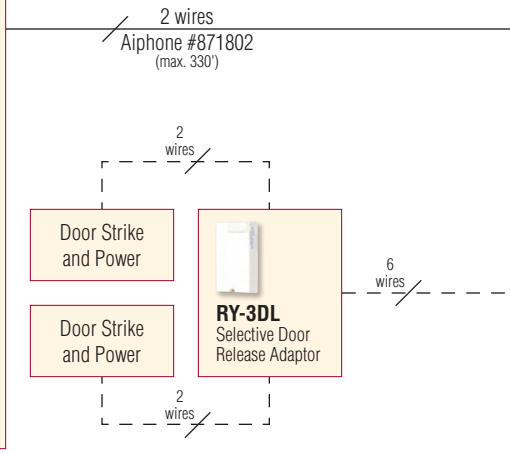
JF-DVF-HID
Card Access Video Door Station
- HID® ProxPoint® Plus Proximity Card Reader
- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 89



JF-D
Audio Door Station
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 89



Door Station Features

- Fixed camera provides clear visitor identification (video door stations)
- Card access door station available

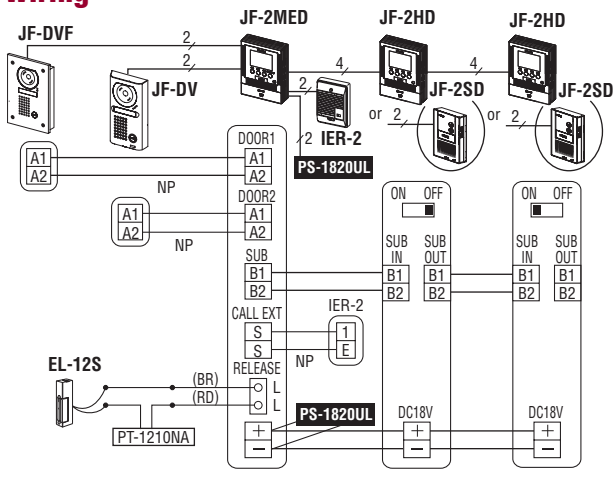
Master Station Features

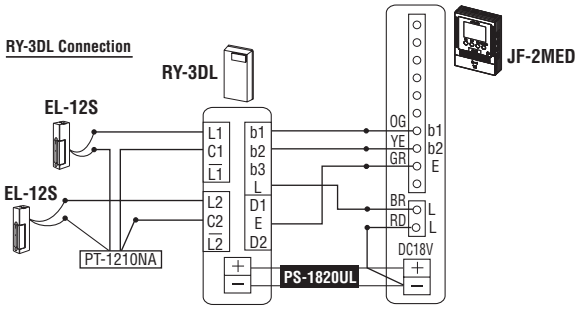
- Compact, attractive design complements most interiors
- Hands-free or push-to-talk communication
- Leave up to 3 voice memos to be heard at the master station (approx. 15 seconds per memo)
- Pre-record up to 2 entrance messages to manually control from the master station, but to be heard at the door station (approx. 10 seconds per message)
- Selective door release with RY-3DL
- Video monitoring
- Picture memory records up to 50 calls (JF-2MED only)
- All Call to inside master and sub stations
- Video out to DVR via supplied connector

System Features

- Convenient box sets are complete with a master station, each with a different door station, and a power supply (1 more door station and up to 2 sub master stations can be added for a full 2x3 system)
- Expandable to three inside and two door stations
- All video master station screens turn on when door station calls in

Wiring





Sub Master Stations: mix and match up to 2 (only 1 if the 1x2 box set is selected, none if the 1x3 box set is selected)



JF-2HD
Video Sub Master Station
(included with JFS-2AED2, JFS-2AEDV2, JFS-AED3, and JFS-2AEDV3 box sets)
- 3-1/2" LCD screen

→ p. 88



JF-2SD
Audio Sub Master Station
→ p. 88

Master Station



JF-2MED
Video Master Station
(included with all JFS box sets)
- 3-1/2" LCD screen
- Picture Memory

→ p. 88

4 wires
Aiphone #871804
(max. 330' between master and farthest sub master)

2 wires
Aiphone #871802
(max. 33')



PS-1820UL
(included with all JFS box sets)
18V DC, 2A Power Supply
→ p. 111

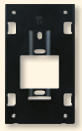
Accessories



AC-10S
Stand-Alone Access Control Keypad
(body style matches JF-DV)
→ p. 105



KAW-D
30˚ Angle Box for JF-DA
→ p. 107



MKW-P
1-Gang Mounting Plate for JF-DV
→ p. 108



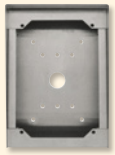
KMB-45
45˚ Mullion Mounting Bracket for JF-D or JF-DA
→ p. 107



JK-MB
Mullion Mounting Bracket for JF-DV
→ p. 107



SBX-DV30
30˚ Angle Box for JF-DV
→ p. 107



SBX-DVF
Surface Mount Box for JF-DVF
→ p. 106



SBX-DVF-P
Surface Mount Box for JF-DVF-HID
→ p. 106



SBX-ACE
Surface Mount Box for JF-D or JF-DA and one Access Control Device
→ p. 106



JBW-BA
Long Distance Adaptor for Video Door Stations
→ p. 88



IER-2
Call Extension Speaker
→ p. 105



EL-12S
Electric Door Strike for Wood Frames
(requires PT-1210NA)
→ p. 105



RY-1824L
Form C Door Release Relay
(for 1 door)
→ p. 105



RY-3DL
Selective Door Release Adaptor
(for 2 doors)
→ p. 105



RY-ES
External Signaling Relay
→ p. 110



MCW-S/A
Desk Stand for JF-2MED or JF-2HD
(mounting hardware included)
→ p. 108

Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
JF-2MED, JF-2HD	7-1/16"	5-5/16"	1-1/4"	179	135	32
JF-2SD	6-5/16"	3-9/16"	1"	160	90	25
JF-D	5-1/8"	3-7/8"	1-1/8"	130	98	28.5
JF-DA	5-3/16"	3-7/8"	1-9/16"	131	99	40
JF-DV	6-13/16"	3-7/8"	1-1/16"	173	98	27
JF-DVF	8-1/4"	5-5/16"	*	209	135	*
JF-DVF-HID	11-5/8"	5-11/16"	*	295	144	*

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

Specifications

Power Source 18V DC — use PS-1820UL

Communication Hands-free (VOX) or push-to-talk (simplex)

Door Release N/O dry contact, 24V AC/DC, 500mA – use EL-12S (use RY-1824L for larger contact rating or RY-3DL for 2 doors)

Wire Type Door Station to Master Station: 2-cond., mid cap, solid, non-shielded — use Aiphone #871802

Power Supply to Master Station: 2-cond., mid cap, solid, non-shielded — use Aiphone #871802

Master Station to Sub Master Station: 4-cond., mid cap, solid, non-shielded — use Aiphone #871804

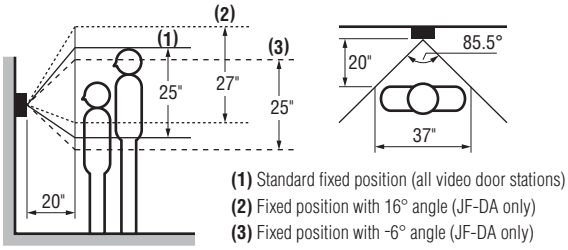
Sub Master Station to Sub Master Station: 4-cond., mid cap, solid, non-shielded — use Aiphone #871804

Distance Door Station to Master Station: 165' (22 AWG) 330' (18 AWG)

Master Station to farthest Sub Master Station: 165' (22 AWG) 330' (18 AWG)

Power Supply to Master Station: 16' (22 AWG) 33' (18 AWG)

Camera View Area



(1) Standard fixed position (all video door stations)
(2) Fixed position with 16° angle (JF-DA only)
(3) Fixed position with -6° angle (JF-DA only)

Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions.

AX Series Hands-Free Video Intercom with Integration

Door Stations & Indoor Sub Stations: mix and match up to 120



AX-DV
Video Door Station
- Fixed camera
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount

→ p. 64



AX-DVF
Video Door Station
- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 64



AX-DV-P
Card Access Video Door Station
- HID® ProxPoint® Plus Proximity Card Reader
- Fixed camera
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount

→ p. 64



AX-DVF-P
Card Access Video Door Station
- HID® ProxPoint® Plus Proximity Card Reader
- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

→ p. 64



AX-DM
Audio Door Station
- Plastic chassis
- Weather resistant
- Mullion surface mount

→ p. 64



IF-DA
Audio Door Station
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 73



IE-JA
Audio Door Station
- Stainless steel cover
- Weather resistant
- Flush mount *(fits 2-gang box)*

→ p. 73



IE-SS/A
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 73



IE-SSR
Audio Door Station
- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 73



AX-A
Audio Sub Station
- Surface mount

→ p. 65



AX-AN
Privacy Audio Sub Station
- Privacy button
- Surface mount

→ p. 65



AX-B
Audio Sub Station
- Semi-flush mount

→ p. 65



AX-BN
Privacy Audio Sub Station
- Privacy button
- Semi-flush mount

→ p. 65

Central Exchange Units: select 1



AX-084C
Central Exchange Unit
- Supports up to 4 master stations and 8 door/sub stations

→ p. 63



AX-248C
Central Exchange Unit
- Supports up to 8 master stations and 24 door/sub stations

→ p. 63

Cat-5e wire
N/A from Aiphone
(max. 980')



x2

PS-2420UL
24V DC, 2A
Power Supply

→ p. 111

2x2 wires
Aiphone
#821802
(max. 33')

2x2 wires
Aiphone
#821802
(max. 33')

Door Station Features

- Fixed camera provides clear visitor identification (video door stations)
- Card access door stations available

Master Station Features

- 3-1/2" LCD screen (AX-8MV, AX-8MV-W)
- Hands-free or push-to-talk communication
- Two talk channels
- Composite video output from CEU/video masters
- All Call or Group Call to master stations
- Scan monitoring

System Features

- Cat-5e wiring homerun from each station
- Selective calling between masters, and from masters to door/sub stations
- Normal or priority call levels
- Data output on CEU provides custom integration capability with CCTV and access control systems*
- PC programmable with a large variety of settings
- Transfer calls to an outside phone line (requires Viking Model K-1900-5 programmable dialer)
- Optional features: headset, footswitch, call transfer to telephone, and PC remote control*

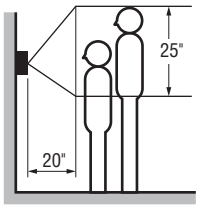
Interface requires custom software (not supplied by Aiphone)

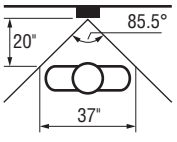
Dimensions

	INCHES				MILLIMETERS			
	Height	Width	Depth	Recessed	Height	Width	Depth	Recessed
AX-084C, AX-248C, AX-320C	3-7/16"	16-9/16"	13-3/16"	-	88	420	335	-
AX-8MV, AX-8M, AX-8MV-W	6-7/8"	7-5/8"	2-9/16"	-	175	194	65	-
AX-A, AX-AN	7-1/16"	5-5/8"	2-1/8"	-	180	143	53.5	-
AX-B, AX-BN	8-3/16"	6"	2"	9/16"	208	153	50.5	15
AX-DM	6-5/16"	1-11/16"	7/8"	-	160	43	22.5	-
AX-DV	7-11/16"	3-15/16"	1"	-	195	100	25	-
AX-DVF	9-11/16"	5-3/4"	*	-	246	146	*	-
AX-DVF-P	11-5/8"	5-3/4"	*	-	295	146	*	-
AX-DV-P	9-5/8"	3-15/16"	1"	-	245	100	25	-
IE-JA	4-1/2"	4-9/16"	*	-	115	116	*	-
IE-SS/A, IE-SSR	4-3/4"	4-3/4"	*	-	121	121	*	-
IF-DA	5-1/8"	3-7/8"	1-1/8"	-	130	98	28.5	-

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

Camera View Area





Master Stations: mix and match up to 8



AX-8MV
Video Master Station
- 3-1/2" LCD screen
- Wall or desk mount

→ p. 63



AX-8MV-W
Video Master Station
(recommended for an 8 x 8 system only)
- 3-1/2" LCD screen
- White finish
- Wall or desk mount

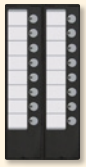
→ p. 63



AX-8M
Audio Master Station
- Wall or desk mount

→ p. 63

Accessories



AX-16SW
16-Call Add-On Selector for AX-8MV or AX-8M
(max. 7 per master)
→ p. 63



SBX-2G/A
Surface Mount Box for IE-JA, IE-SS/A, or IE-SSR
p. 106



KMB-45
45˚ Mullion Mounting Bracket for IF-DA
→ p. 107



SBX-AXDV30
30˚ Angle Box for AX-DV
→ p. 107



SBX-AXDVF
Surface Mount Box for AX-DVF
→ p. 106



SBX-DVF-P
Surface Mount Box for AX-DVF-P
→ p. 106



BBX-1E
Flush Mount Back Box for AX-B or AX-BN
→ p. 108



AXW-AZ
CCTV Input Module
→ p. 65



AXW-AVT
Audio / Video Transmitter
→ p. 65



AXW-AVR
Audio / Video Receiver
→ p. 65



EL-12S
Electric Door Strike for Wood Frames
(requires PT-1210NA)
→ p. 105



RY-1824L
Form C Door Release Relay
(1 per door)
→ p. 105



AXW-PA1
Paging Adaptor
→ p. 65



RY-ES
External Signaling Relay
→ p. 110



IER-2
Call Extension Speaker
→ p. 105



MCW-S/A
Desk Stand for AX-8MV, AX-8MV-W, or AX-8M
(mounting hardware included)
→ p. 108

Add-On Central Exchange Unit: select up to 3 (optional)



AX-320C
Add-On Central Exchange Unit
- Supports up to 32 door / sub stations

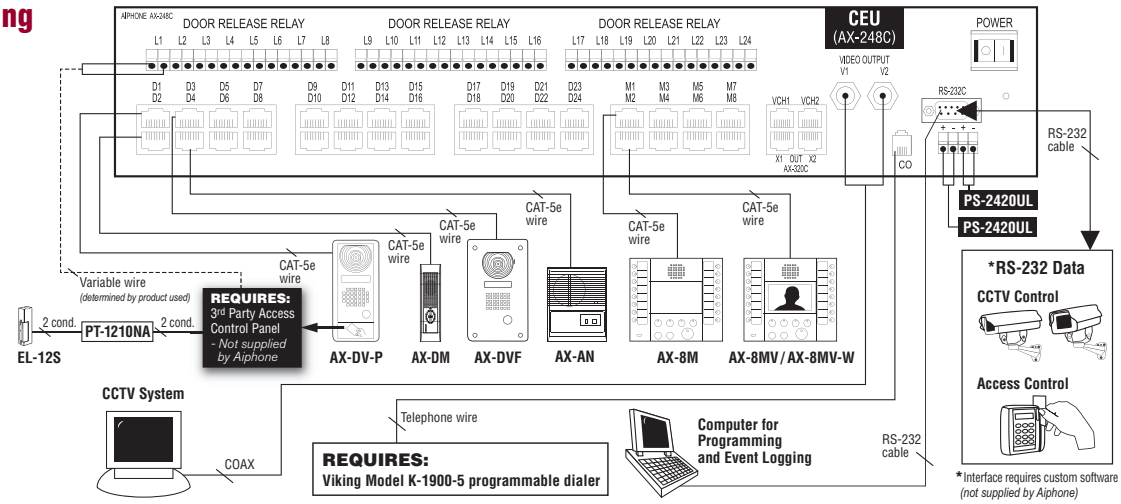
→ p. 63

Cat-5e wire
N/A from Aiphone
(max. 980')

Cat-5e wire
N/A from Aiphone
(max. 16')

Cat-5e wire
N/A from Aiphone
(max. 980')

Wiring



Specifications

Power Source 24V DC — use two PS-2420ULs

Communication Hands-free (VOX) or push-to-talk (simplex)

Door Release Programmable dry contact, 24V AC/DC, 500mA — use EL-12S (use RY-1824L for larger contact rating)

Wire Type Between Door / Sub Station, Master Station, and Central Exchange Unit: Cat-5e

Power Supply to Central Exchange Unit and Add-On Central Exchange Unit: 2-cond., overall shield — use Aiphone 821802

Distance Door / Sub Station to Central Exchange Unit and Add-On Central Exchange Unit: 980'

Central Exchange Unit to Master: 980'

Central Exchange Unit to Add-On Central Exchange Unit: 16'

Power Supply to Central Exchange Unit and Add-On Central Exchange Unit: 16' (22 AWG) 33' (18 AWG)

Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions.

KB Series Handset Video Intercom with Tilt

Door Stations: mix and match up to 3 (max. 1 audio door station per system)



KB-DAR
Video Door Station
- Tilt camera
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 94



KB-DAR-M
Video Door Station
- Motion detector contact input
- Tilt camera
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 94



AX-DM
Audio Door Station
- Plastic chassis
- Weather resistant
- Mullion surface mount

→ p. 64



IF-DA
Audio Door Station
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 73



IE-JA
Audio Door Station
- Stainless steel cover
- Weather resistant
- Flush mount *(fits 2-gang box)*

→ p. 73



IE-SS/A
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 73



IE-SSR
Audio Door Station
- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 73

Master Station



KB-3MRD
Video Master Station
- 4" LCD screen
- Handset for privacy

→ p. 94

2 wires
Aiphone
#871802
(max. 650')

Door Strike and Power

2 wires

RY-3DL
Selective Door Release Adaptor

2 wires

Door Strike and Power

6 wires

2 wires
Aiphone
#871802
(max. 33')



PS-2420UL
24V DC, 2A
Power Supply

→ p. 111

Door Station Features

- Tilt camera provides larger viewing range (video door stations)

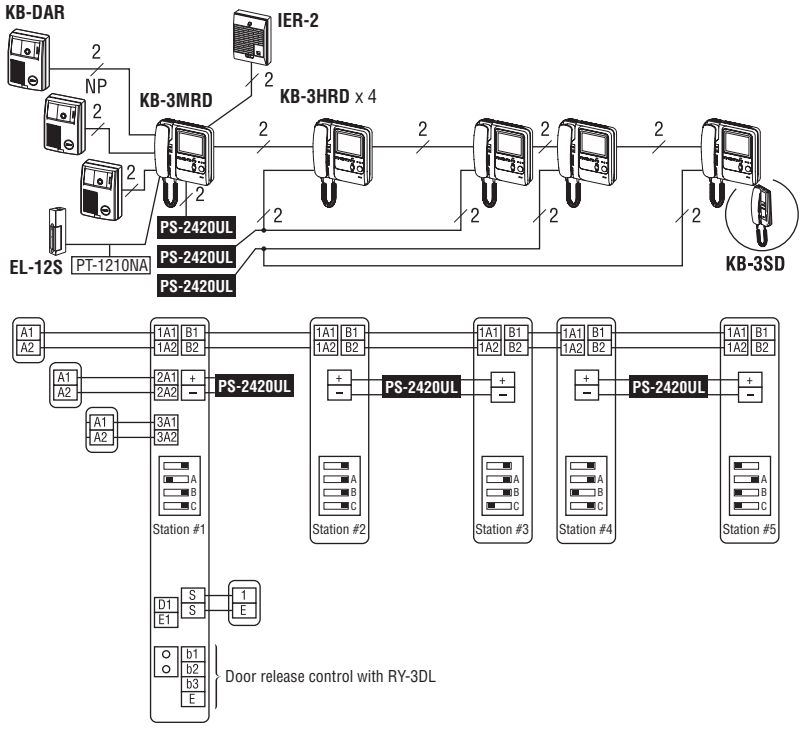
Master Station Features

- 4" LCD screen
- Instant voice call-in with image
- Selective Call or All Call
- Chime or receiver volume control
- Optional selective door release with RY-3DL
- Video out to DVR via supplied connector

System Features

- 330' total distance looped between monitors

Wiring



NOTES: 1. D1 and E1 for IE Series door stations (audio only) instead of third KB-DAR
2. Run audio/video wires in a separate jacketed cable from door release wires

Sub Master Stations: mix and match up to 4

(optional – max. 2 audio sub master stations per system)



KB-3HRD
Video Sub Master Station
- 4" LCD screen
- Handset for privacy

→ p. 94



KB-3SD
Audio Sub Master Station
(max. 2 per system)
- Handset for privacy

→ p. 94

2 wires
Aiphone #871802
(max. 330' between master and farthest sub master)

2 wires
Aiphone #871802
(max. 33')



PS-2420UL
24V DC, 2A Power Supply
(required for every 2 KB-3HRDs)
→ p. 111

Accessories



SBX-2G/A
Surface Mount Box for IE-JA, IE-SS/A, or IE-SSR
→ p. 106



SBX-ACE
Surface Mount Box for AX-DM, IF-DA, KB-DAR, or KB-DAR-M and one Access Control Device
→ p. 106



KMB-45
Mullion Mounting Bracket for IF-DA, KB-DAR, or KB-DAR-M
→ p. 107



KAW-D
30° Angle Box for IF-DA, KB-DAR, or KB-DAR-M
→ p. 107



KA-DGR
Surface Mount Housing Panel for KB-DAR or KB-DAR-M
(door station not included)
→ p. 94



IER-2
Call Extension Speaker
→ p. 105



EL-12S
Electric Door Strike for Wood Frames
(requires PT-1210NA)
→ p. 105



RY-1824L
Form C Door Release Relay
(for 1 door)
→ p. 105



RY-3DL
Selective Door Release Adaptor
(for 2 or 3 doors)
→ p. 105



RY-ES
External Signaling Relay
→ p. 110



MAW-B
Auxiliary Light Control Relay
→ p. 94



MCW-S/A
Desk Stand for KB-3MRD or KB-3HRD
(mounting hardware included)
→ p. 108

Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
AX-DM	6-5/16"	1-11/16"	7/8"	160	43	22.5
IE-JA	4-1/2"	4-9/16"	*	115	116	*
IE-SS/A, IE-SSR	4-3/4"	4-3/4"	*	121	121	*
IF-DA	5-1/8"	3-7/8"	1-1/8"	130	98	28.5
KB-3MRD, KB-3HRD	7-11/16"	7-5/16"	3-5/16"	195	185	84
KB-3SD	8-1/4"	3-15/16"	2-7/8"	210	100	73.5
KB-DAR, KB-DAR-M	5-1/2"	4-1/8"	1-3/4"	140	105	44

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

Specifications

Power Source 24V DC — use PS-2420UL

Communication Handset (full-duplex)

Door Release N/O dry contact, 12V AC, 400mA — use EL-12S (use RY-1824L for larger contact rating or RY-3DL for 2 or 3 doors)

Wire Type 2-cond., mid cap, solid, non-shielded — use Aiphone #871802

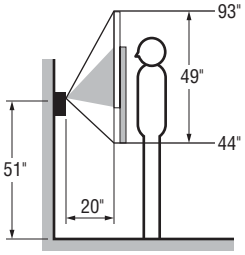
Distance Master Station to Door Station: 330' (22 AWG) 650' (18 AWG)

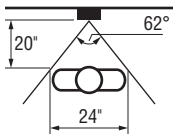
Master Station to farthest Sub Master Station: 165' (22 AWG) 330' (18 AWG)

Power Supply to Master Station: 16' (22 AWG) 33' (18 AWG)

Power Supply to Sub Master Station: 16' (22 AWG) 33' (18 AWG)

Camera View Area





Customize the Ideal Solution for Multi-Tenant Applications

Our GT Series versatile security video intercom can be designed for virtually any configuration.



To build custom entrance stations, see modular components and mounting accessories p. 71 – 72

Let us help you create the best system for your customer's needs.
Reach out to your local Aiphone Expert for FREE design assistance.



Find your Aiphone Expert at **aiphone.com/glc_rep**

Multi-Tenant Intercoms

GT Series
Standard Multi-Tenant Video Intercom
→ p. 36



GT Series
Expanded Multi-Tenant Video Intercom
→ p. 38



GT Series
Enterprise-Level Multi-Tenant Video Intercom
→ p. 40



DA Series
Single & Multi-Tenant Handset Intercom
→ p. 43



DB Series
Single & Multi-Tenant Hands-Free Intercom
→ p. 44



Look for the QuikSpec Logo!

Aiphone's online system design tool ensures you will have the right parts for a standard or expanded GT Series multi-tenant solution.

quikspec.com





ENTRANCE 5 x GUARD 2 x TENANT 48

GT Series Standard Multi-Tenant Video Intercom

Entrance Stations: mix and match up to 5

Ready-to-Install Single Panel



GT-DMB-N
3-in-1 Video Entrance Station
- Tenant directory programming with NFC
- PTZ camera with 170° angle view
- Hands-free communication
- Access control and tenant directory scroll keypad
- Motion activated 3-1/2" LCD screen can display a customized greeting, operation instructions, or standby image
- Voice annunciation
- Stainless steel panel
- Weather and vandal resistant

→ p. 68

NEW



GT-DMBN-SSP
3-in-1 Video Entrance Station
- Same features as GT-DMB-N, plus:
- Designed to mount into Pedestal Pro Model #64TOW-AIP-001-304

→ p. 68

Pedestal Pro Model #64TOW-AIP-001-304
(available at www.pedestalpro.com)

Ready-to-Assemble Modular Kits



GTV-DES104B
Modular Video Entrance Station Kit
(includes GT-DB + GT-DBP, GT-VB + GT-VP, GT-NSB + GT-NSP-L, GT-10K + GF-10KP, GT-4B + GT-4F, and GT Operation Plate)
- Modular components
- Configuration can be customized
- Digital scroll buttons

→ p. 68



GTV-DES202B
Modular Video Entrance Station Kit
(includes GT-DB + GT-DBP, GT-VB + GT-VP, GT-NSB + GT-NSP-L, GT-10K + GF-10KP, GF-2B + GF-2F x2, and GT Operation Plate)
- Modular components
- Configuration can be customized
- Digital scroll buttons

→ p. 68



GTA-DESB
Modular Audio Entrance Station Kit
(includes GT-DB + GT-DBP, GT-NSB + GT-NSP-L, GT-10K + GF-10KP, GF-3B + GF-3F, and GT Operation Plate)
- Modular components
- Configuration can be customized
- Digital scroll buttons

→ p. 68

NOTE: *To build custom entrance stations, see modular components and mounting accessories p. 71–72*

2 wires

PS-2420UL
24V DC, 2A Power Supply
→ p. 111

VIDEO Wire
Aiphone #871802

AUDIO Wire
Aiphone #872002

POWER Wire
Aiphone #871802

2 wires

GT-VBC
Video Bus Control Unit
→ p. 70

2 wires

PS-2420UL
24V DC, 2A Power Supply
→ p. 111

2 wires

GT-BC
Audio Bus Control Unit
→ p. 70

2 wires

PS-2420UL
24V DC, 2A Power Supply
→ p. 111

Tenant Stations: mix and match up to 48*

Tenant Master Stations & Sub Master Stations with Internal Communication, Picture Memory, and Suite Security

1 GT-2C + 3 GT-2Hs per tenant (max. 48 GT-2Cs)



1 + 3



GT-2C
Video Tenant Master Station
- 3-1/2" LCD screen
- Hands-free communication
- Picture Memory
- Compatible with the GT-D audio tenant door station

→ p. 69



GT-2H
Video Tenant Sub Master Station
- 3-1/2" LCD screen
- Hands-free communication

→ p. 69

2 wires

PS-2420UL
24V DC, 2A Power Supply
→ p. 111

***Tenant Stations** – Up to 4 stations per tenant with these parameters: 1 GT-1C7 + 3 audio stations **OR** 2 GT-1M3s + 2 audio stations **OR** 4 audio stations (max. 48 stations or max. 100 stations if only using GT-1Ds)



GT-1C7
Video Tenant Station
- 7" LCD screen
- Hands-free communication

→ p. 70



GT-1M3
Video Tenant Station
- 3-1/2" LCD screen
- Hands-free communication

→ p. 70



GT-1A
Audio Tenant Station
- Hands-free communication

→ p. 70



GT-1D
Audio Tenant Station
- Handset for privacy

→ p. 70

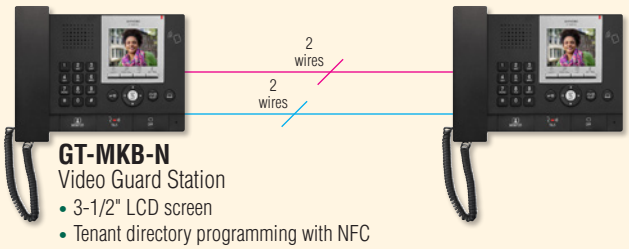
NEW



GT-TLI-IP
Mobile App Network Adaptor
(includes power supply)
- Provides ability to answer calls and unlock doors with GT Series smartphone app

→ p. 70

Video Guard Station: select up to 2



2 wires

2 wires

GT-MKB-N
Video Guard Station
- 3-1/2" LCD screen
- Tenant directory programming with NFC
- Hands-free communication with handset for privacy
- Includes desk stand
- Compatible with JO-DV for single-door video entry

→ p. 69



2 wires

PS-2420UL
24V DC, 2A Power Supply
→ p. 111

NOTE: Maximum cumulative audio wire distance = 8,200 ft. If exceeded, contact Technical Support for system configuration assistance.

Specifications
See p. 68–72

Camera View Area
See p. 71

Tenant Stations: mix and match up to 48*

Tenant Master Stations & Sub Master Stations with Internal Communication, Picture Memory, and Suite Security
1 GT-2C + 3 GT-2Hs per tenant (max. 48 GT-2Cs)



1 + 3



GT-2C
→ p. 69

GT-2H
→ p. 69

2 wires



PS-2420UL
24V DC, 2A Power Supply
→ p. 111

***Tenant Stations** – Up to 4 stations per tenant with these parameters:
1 GT-1C7 + 3 audio stations **OR** 2 GT-1M3s + 2 audio stations **OR**
4 audio stations (max. 48 stations or max. 100 stations if only using GT-1Ds)

2 wires



GT-1C7
Video Tenant Station
- 7" LCD screen
- Hands-free communication

→ p. 70



GT-1M3
Video Tenant Station
- 3-1/2" LCD screen
- Hands-free communication

→ p. 70



GT-1A
Audio Tenant Station
- Hands-free communication

→ p. 70

2 wires



GT-1D
Audio Tenant Station
- Handset for privacy

→ p. 70



GT-TLI-IP
Mobile App Network Adaptor
(includes power supply)
- Provides ability to answer calls and unlock doors with GT Series smartphone app

→ p. 70

Accessories

SBX-GTDMB
Surface Mount Box for GT-DMB-N
→ p. 72





GT-102H
2-Module Rain Hood
(GT-103H, GT-104H, GT-202H, and GT-203H are also available)
→ p. 72



GT-102HB
2-Module Hooded Surface Mount Box
(GT-102HB, GT-103HB, GT-104HB, GT-202HB, GT-203HB, and GT-303HB are also available)
→ p. 72



GT-HSA
Optional Add-On Handset for GT-2C or GT-2H
→ p. 69



MCW-S/A
Desk Stand for GT-2C, GT-2H, GT-1C7, GT-1M3, or GT-1A
(mounting hardware included)
→ p. 108



GFK-PS
Urgent Call Pull Cord
→ p. 71



GT-RY
External Signaling Relay
→ p. 71



GTW-VOA
Video Output Adaptor
→ p. 70



GT-MCX
Network Adaptor
(includes mounting rail)
→ p. 70



GTW-DP
Distribution Point Adaptor
(includes mounting rail)
→ p. 70



GT-1Z
1-Way Video Distribution Adaptor
→ p. 70



GT-4Z
4-Way Video Distribution Adaptor
→ p. 70



W-DIN11
DIN Mounting Rail for Control Units
→ p. 72

Entrance Station Features

- CCTV camera input provides additional surveillance of entry area (GT-DMB-N, GT-VB)
- Both video and audio entrance panels can be combined in the same system
- LEDs at door allow use in low light conditions (video system)

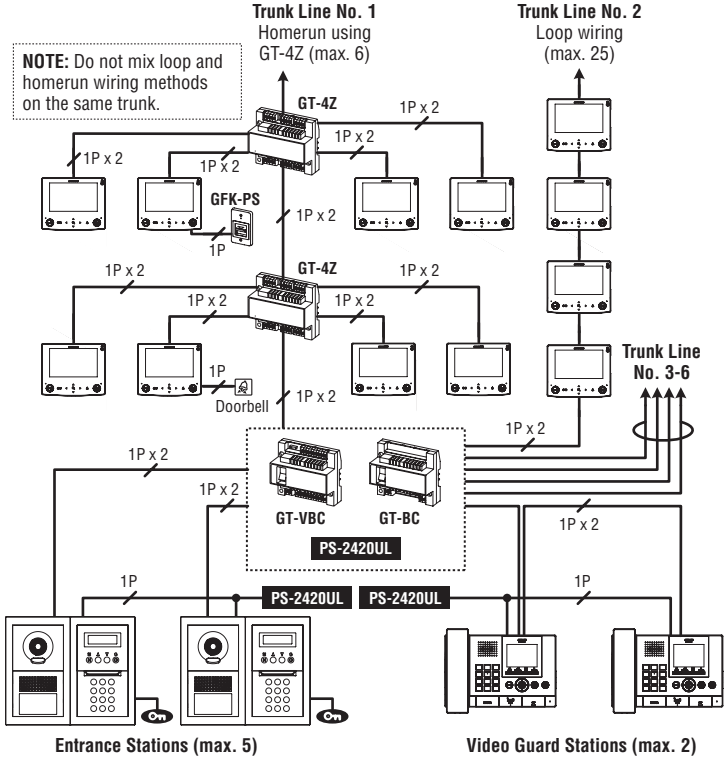
Tenant Station Features

- Unlock entrance from tenant station
- Optional individual doorbell to ring tenant stations
- Panic call switch for emergency calling to guard or concierge
- Tenant can monitor the entryway (video system)
- Option button

System Features

- Tenant directory can quickly be updated with NFC-compatible stations (GT-DB-VN, GT-DMB-N, GT-MKB-N, GT-BCXB-N)
- Link data allows easy programming of multiple entrance and video guard stations
- Setting via dip switch for digital systems provides faster and easier installation (GT-2C, GT-1C7, GT-1M3)
- Simple wiring with only 2 common wires for audio and only 2 additional wires for video
- Video guard station(s) can be included to provide communication between office / lobby and tenants
- Security guard can screen calls from visitors (Reception Mode)

Wiring GT Standard Configuration Sample



GT Series Expanded Multi-Tenant Video Intercom

Entrance Stations: mix and match up to 16

Ready-to-Install Single Panel



GT-DMB-N
3-in-1 Video Entrance Station
- Tenant directory programming with NFC
- PTZ camera with 170° angle view
- Hands-free communication
- Access control and tenant directory scroll keypad
- Motion activated 3-1/2" LCD screen can display a customized greeting, operation instructions, or standby image
- Voice annunciation
- Stainless steel panel
- Weather and vandal resistant

→ p. 68



GT-DMBN-SSP
3-in-1 Video Entrance Station
- Same features as GT-DMB-N, plus:
- Designed to mount into Pedestal Pro Model #64TOW-AIP-001-304

→ p. 68

Pedestal Pro Model
#64TOW-AIP-001-304
(available at www.pedestalpro.com)

Ready-to-Assemble Modular Kits



GTV-DES104B
Modular Video Entrance Station Kit
(includes GT-DB + GT-DBP, GT-VB + GT-VP, GT-NSB + GT-NSP-L, GT-10K + GF-10KP, GT-4B + GT-4F, and GT Operation Plate)
- Modular components
- Configuration can be customized
- Digital scroll buttons

→ p. 68



GTV-DES202B
Modular Video Entrance Station Kit
(includes GT-DB + GT-DBP, GT-VB + GT-VP, GT-NSB + GT-NSP-L, GT-10K + GF-10KP, GF-2B + GF-2F x2, and GT Operation Plate)
- Modular components
- Configuration can be customized
- Digital scroll buttons

→ p. 68



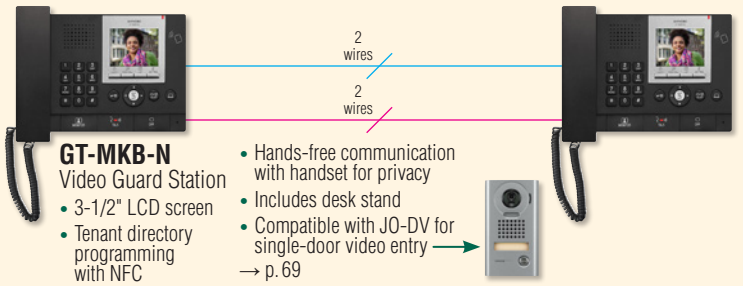
GTA-DESB
Modular Audio Entrance Station Kit
(includes GT-DB + GT-DBP, GT-NSB + GT-NSP-L, GT-10K + GF-10KP, GF-3B + GF-3F, and GT Operation Plate)
- Modular components
- Configuration can be customized
- Digital scroll buttons

→ p. 68

NOTE: *To build custom entrance stations, see modular components and mounting accessories p. 71–72*

VIDEO Wire Aiphone #871802
AUDIO Wire Aiphone #872002
POWER Wire Aiphone #871802

Video Guard Station: select up to 2



GT-MKB-N
Video Guard Station
- 3-1/2" LCD screen
- Tenant directory programming with NFC
- Hands-free communication with handset for privacy
- Includes desk stand
- Compatible with JO-DV for single-door video entry

→ p. 69

2 wires

PS-2420UL
24V DC, 2A Power Supply
→ p. 111

GT-BC
Audio Bus Control Unit
→ p. 70

PS-2420UL
24V DC, 2A Power Supply
→ p. 111

GT-VBC
Video Bus Control Unit
→ p. 70

GT-VBC
Video Bus Control Unit
→ p. 70

GT-VBX
Expanded Video Bus Control Unit
→ p. 70

Connected with 16" cable supplied by GT-VBX

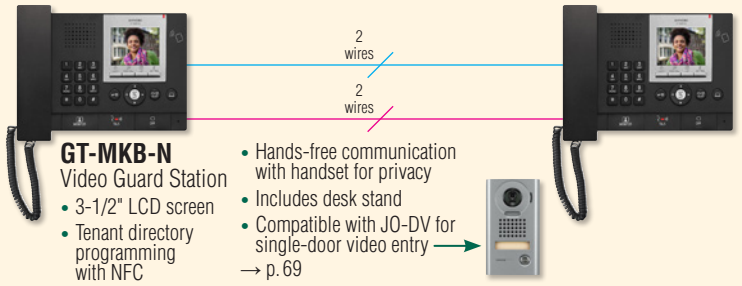
GT-BCXB-N
Expanded Audio Control Unit with NFC Programming
(includes mounting rail)
→ p. 70

GT-BC
Audio Bus Control Unit
→ p. 70

PS-2420UL
24V DC, 2A Power Supply
→ p. 111

PS-2420UL
24V DC, 2A Power Supply
→ p. 111

Video Guard Station: select up to 2



GT-MKB-N
Video Guard Station
- 3-1/2" LCD screen
- Tenant directory programming with NFC
- Hands-free communication with handset for privacy
- Includes desk stand
- Compatible with JO-DV for single-door video entry

→ p. 69

PS-2420UL
24V DC, 2A Power Supply
→ p. 111

PS-2420UL
24V DC, 2A Power Supply
→ p. 111

Specifications
See p. 68–72

Camera View Area
See p. 71



GT-BC
Audio Bus Control Unit
→ p. 70



GT-VBC
Video Bus Control Unit
→ p. 70

2 wires

2 wires

2 wires



PS-2420UL
24V DC, 2A Power Supply
→ p. 111

Tenant Stations: mix and match up to 125 (Sub Trunk 1a)



1 + 3



GT-2C
Video Tenant Master Station
- 3-1/2" LCD screen
- Hands-free communication
- Compatible with the GT-D audio tenant door station

→ p. 69



GT-2H
Video Tenant Sub Master Station
- 3-1/2" LCD screen
- Hands-free communication

→ p. 69

2 wires



PS-2420UL
24V DC, 2A Power Supply
→ p. 111



GT-1C7
Video Tenant Station
- 7" LCD screen
- Hands-free communication

→ p. 70



GT-1M3
Video Tenant Station
- 3-1/2" LCD screen
- Hands-free communication

→ p. 70



GT-1A
Audio Tenant Station
- Hands-free communication

→ p. 70



GT-1D
Audio Tenant Station
- Handset for privacy

→ p. 70



GT-TLI-IP
Mobile App Network Adaptor
(includes power supply)
- Provides ability to answer calls and unlock doors with GT Series smartphone app

→ p. 70

Accessories

SBX-GTDMB
Surface Mount Box for GT-DMB-N
→ p. 72





GT-102H
2-Module Rain Hood
(GT-103H, GT-104H, GT-202H, and GT-203H are also available)
→ p. 72



GT-102HB
2-Module Hooded Surface Mount Box
(GT-102HB, GT-103HB, GT-104HB, GT-202HB, GT-203HB, and GT-303HB are also available)
→ p. 72



GT-HSA
Optional Add-On Handset for GT-2C or GT-2H
→ p. 69



MCW-S/A
Desk Stand for GT-2C, GT-2H, GT-1C7, GT-1M3, or GT-1A
(mounting hardware included)
→ p. 108



GFK-PS
Urgent Call Pull Cord
→ p. 71



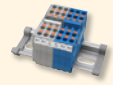
GT-RY
External Signaling Relay
→ p. 71



GTW-VOA
Video Output Adaptor
→ p. 70



GT-MCX
Network Adaptor
(includes mounting rail)
→ p. 70



GTW-DP
Distribution Point Adaptor
(includes mounting rail)
→ p. 70



GTW-LC
Multi-Relay Control Unit
(for use with Expanded System only – requires GT-BCXB-N)
→ p. 70



GT-1Z
1-Way Video Distribution Adaptor
→ p. 70

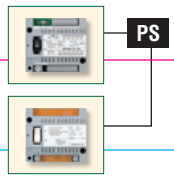


GT-4Z
4-Way Video Distribution Adaptor
→ p. 70



W-DIN11
DIN Mounting Rail for Control Units
→ p. 72

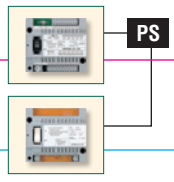
See Sub Trunk 1a above for details



Tenant Stations: mix and match up to 125 (Sub Trunk 1b)



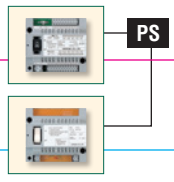
See Sub Trunk 1a above for details



Tenant Stations: mix and match up to 125 (Sub Trunk 2a)



See Sub Trunk 1a above for details



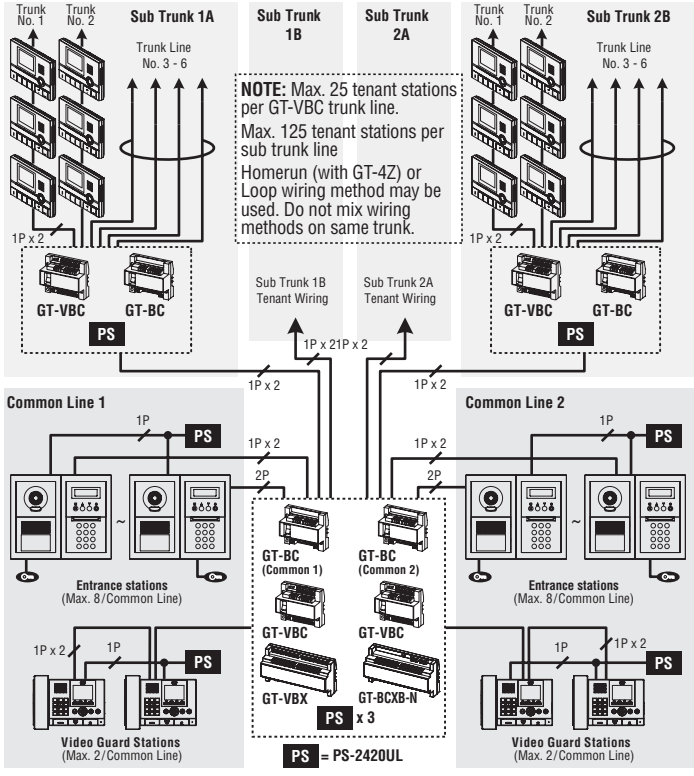
Tenant Stations: mix and match up to 125 (Sub Trunk 2b)



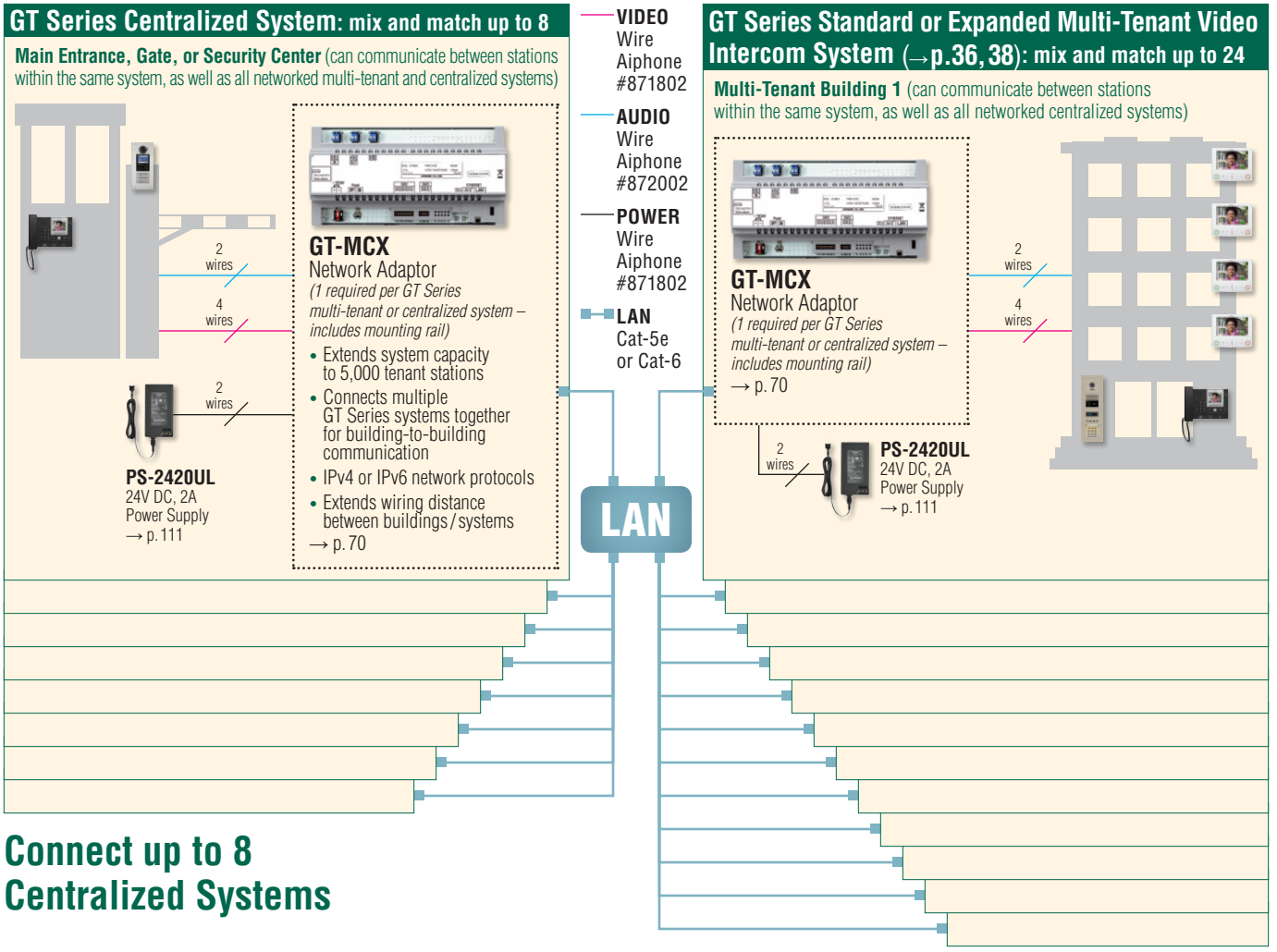
Features – same as Standard System, plus:

- Up to 16 entrance panels, 4 video guard stations, and 500 tenant stations

Wiring GT Expanded Configuration Sample



GT Series Enterprise-Level Multi-Tenant Video Intercom



Connect up to 8 Centralized Systems

Connect up to 24 Standard or Enhanced Multi-Tenant Video Intercom Systems

NOTE: *Each building in a networked system can have up to 500 tenant stations max., even if the capacity of 5,000 tenant stations has not been reached.*

Features – same as Standard System, plus:

- Network adaptor (GT-MCX) connects multiple GT Series systems together for building-to-building communication
- Up to 480 entrance panels, 96 video guard stations, and 5,000 tenant stations

Specifications

See p. 68 – 72

Camera View Area

See p. 71

Wiring

There are many different wiring configurations possible with the GT Series.

For additional help, contact Aiphone's Technical Support.

800.692.0200



Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions.

Versatile Variety with GT Series Entrance Stations

Choose between 3 style options.

1) Ready-to-Install Single-Panel Entrance Station

- 3-in-1 station includes PTZ camera, audio, and access keypad
- Tenant station programming with NFC
- Digital scroll
- Stainless steel
- Flush mount with GF-3B or surface mount with SBX-GTDMB (both sold separately)



GT-DMB-N
3-in-1 Video Entrance Station
→ p. 68

2) Ready-to-Assemble Modular Entrance Station Kits

- Modular components
- Digital scroll
- Zinc die cast
- Semi-flush mount (back box or boxes included)



GTV-DES104B
Modular Video Entrance Station Kit
→ p. 68



GTV-DES202B
Modular Video Entrance Station Kit
→ p. 68



GTA-DESB
Modular Audio Entrance Station Kit
→ p. 68

3) Custom Modular Entrance Stations

- Virtually endless configurations with modular components
- Digital scroll or direct select
- Zinc die cast

To build custom entrance stations, see modular components and mounting accessories p. 71-72

Easily build your own!



Flexible Dorm Security Solution

Inspires customers to install or upgrade their student housing communication systems.



With the GT Series, residents will have a safe means to:

- ☑ *Call for help directly from their dorm room*
- ☑ *Reach security from across the campus*
- ☑ *Screen visitors with clear audio/video*
- ☑ *Buzz in approved visitors from inside*

The GT Series is the premier dorm security solution for access control, communication, and monitoring.

Student residents can safely identify visitors before unlocking the door. And with the video guard station, security can be reached directly from the dorm room – even if the security office is all the way across campus.

When students move out of housing, updating the tenant directory is prompt and hassle-free using NFC technology or logging in remotely using a VPN.



GT Series

Learn more about our versatile multi-tenant video intercom

aiphone.com/glc_dorm

DOOR 1 x TENANT 4

DA Series Single & Multi-Tenant Handset Intercom

Box Set: select if DA-1DS is the desired entrance station
(for 1x1 applications only)



DA-1AS:
Box Set with DA-1DS, DA-1MD, and PT-1211CA

Entrance Stations: select 1
(for a la carte applications)



DA-1DS
1-Call Audio Entrance Station
(included with DA-1AS box set – also sold separately)
- Direct select button
- Backlit directory
- Weather resistant

→ p. 67



DA-2DS
2-Call Audio Entrance Station
- Direct select buttons
- Backlit directory
- Weather resistant

→ p. 67



DA-4DS
4-Call Audio Entrance Station
- Direct select buttons
- Backlit directory
- Weather resistant

→ p. 67

2 wires
Aiphone
#871802
(max. 1,020')

2 wires

Door Strike

2 wires
Aiphone
#871802
(max. 510')



PT-1211CA
15V AC Transformer
(included with DA-1AS box set)

→ p. 111

Tenant Station: select up to 4



DA-1MD
(included with DA-1AS box set)
Audio Tenant Station
- Handset for privacy

→ p. 67

Accessories



EL-12S
Electric Door Strike for Wood Frames

→ p. 105

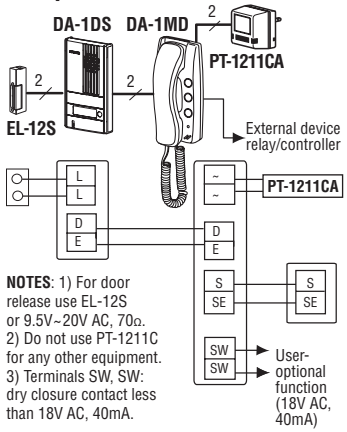
Entrance Station Features
- Door strike (EL-12S) powered by door station without the need of an additional transformer or wiring
- Backlit directory

Tenant Station Features
- Option button to control an external device
- Call tone volume control with mute indicator

System Features
- Convenient box set complete with a tenant station, a 1-call entrance station, and a power supply available for 1x1 applications
- 2-wire system is quick and easy to install

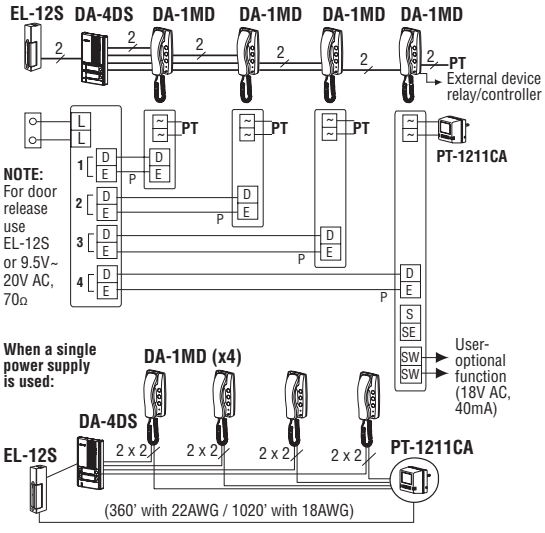
Wiring

Example with DA-1DS



NOTES: 1) For door release use EL-12S or 9.5V~20V AC, 70Ω. 2) Do not use PT-1211C for any other equipment. 3) Terminals SW, SW: dry closure contact less than 18V AC, 40mA.

Example with DA-4DS



Specifications

Power Source	15V AC — use PT-1211CA
Communication	Handset (full-duplex)
Door Release	9.5–20V AC, 70Ω or higher resistance — use EL-12S
Wire Type	Entrance Station to Tenant Station: 2-cond., overall shield — use Aiphone #822202 or 2-cond., low cap, PE insulation, solid, non-shielded — use Aiphone #871802
	Power Supply to Tenant Station: 2-cond., low cap, PE insulation, solid, non-shielded — use Aiphone #871802
Distance	Power Supply to Entrance Station or Door Strike (cumulative): 360' (22 AWG) 1,020' (18 AWG)
	Power Supply to Tenant Station: 180' (22 AWG) 510' (18 AWG)

Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
DA-1DS, DA-2DS, DA-4DS	6-7/8"	3-15/16"	7/8"	175	100	22
DA-1MD	7-7/8"	3-1/2"	2-1/2"	200	89	63

Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions.

DB Series Single & Multi-Tenant Hands-Free Intercom

Box Set: select if DA-1DS is the desired entrance station (for 1x1 applications)



DBS-1A
Box Set with
DA-1DS, DB-1MD,
and PT-1211CA

START with a BOX SET

Entrance Stations: select 1 (for a la carte applications)



DA-1DS
1-Call Audio
Entrance Station
(included with DBS-1A box set)
- Direct select button
- Backlit directory
- Weather resistant

→ p. 67



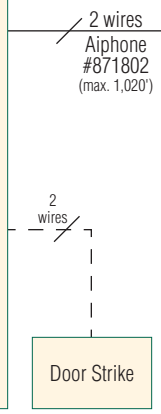
DA-2DS
2-Call Audio
Entrance Station
- Direct select buttons
- Backlit directory
- Weather resistant

→ p. 67



DA-4DS
4-Call Audio
Entrance Station
- Direct select buttons
- Backlit directory
- Weather resistant

→ p. 67



Entrance Station Features

- Door release powered by door station without the need of an additional transformer or wiring
- Backlit directory

Tenant Station Features

- All Call between stations within same tenant residence or office
- Option button to control an external device
- Call tone volume control with mute indicator

System Features

- Convenient box set is complete with a tenant master station, a 1-call entrance station, and a power supply available for 1x1 applications
- Optional call extension speaker

Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
DA-1DS, DA-2DS, DA-4DS	6-7/8"	3-15/16"	7/8"	175	100	22
DB-1MD, DB-1SD	7-5/16"	3-1/8"	1-1/16"	185	80	27

Specifications

Power Source 15V AC — use PT-1211CA (requires 1 per tenant master station and 1 per 2 tenant sub stations)

Communication Hands-free (VOX) or push-to-talk (simplex)

Door Release 9.5–20V AC, 70Ω or higher resistance — use EL-12S

Wire Type Entrance Station to Tenant Master Station: 2-cond., low cap, PE insulation, solid, non-shielded — use Aiphone #871802

Tenant Master Station to Tenant Sub Station: 4-cond., low cap, PE insulation, solid, non-shielded — use Aiphone #871804

Between Tenant Sub Stations: 4-cond. + 2-cond. when sharing power — use Aiphone #822206 or #871804

Power Supply to Tenant Station: 2-cond., low cap, PE insulation, solid, non-shielded — use Aiphone #871802

Distance Power Supply to Entrance Station or Door Strike (cumulative): 360' (22 AWG) 1,020' (18 AWG)

Power Supply to Tenant Master Station: 180' (22 AWG) 510' (18 AWG)

Tenant Master Station to farthest Tenant Sub Station: 330'

Tenant Master Station: select up to 4



DB-1MD
Audio Hands-Free
Tenant Master Station
(included with DBS-1A box set)
→ p. 67

Tenant Sub Station: select up to 4 per tenant master station (optional)



DB-1SD
Audio Hands-Free
Tenant Sub Station
→ p. 67

Accessories



EL-12S
Electric Door Strike
for Wood Frames
→ p. 105



RY-ES
External
Signaling Relay
→ p. 110



IER-2
Call Extension
Speaker
→ p. 105



MCW-S/A
Desk Stand for
DB-1MD or DB-1SD
(mounting hardware included)
→ p. 108

2 wires
Aiphone
#871802
(max. 510')

4 wires
Aiphone #871804
(max. 330' between
master and farthest sub)

2 wires
Aiphone
#871802
(max. 510')



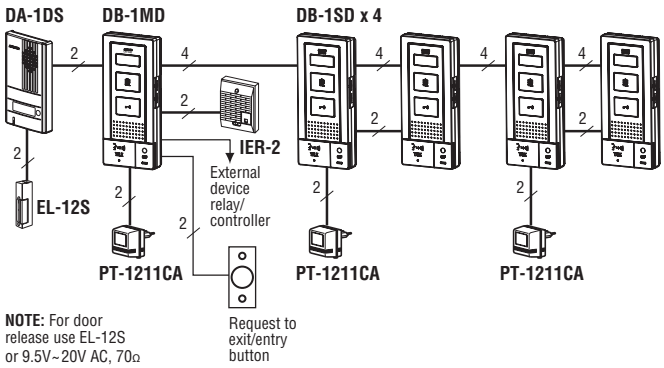
PT-1211CA
15V AC
Transformer
*(included with
DBS-1A box set)*
→ p. 111



PT-1211CA
15V AC
Transformer
*(1 PT-1211CA
per 2 DB-1SDs)*
→ p. 111

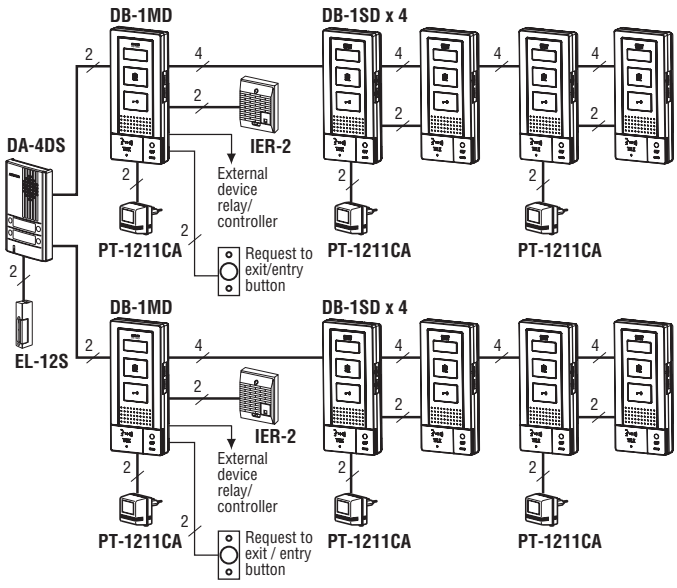
Wiring

Example with DA-1DS



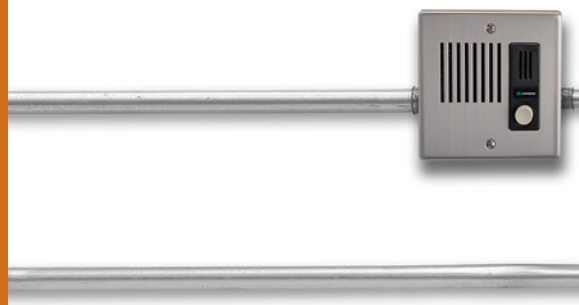
NOTE: For door release use EL-12S or 9.5V~20V AC, 70Ω

Example with DA-4DS



Go Modern and Save

Easily reuse *existing* wire when converting audio systems to video.





With the IX Series 2 Peer-to-Peer Video Intercom, you can now upgrade your customer's old, aging desk stations AND their outdated door stations.

All without running new wire.



Opportunities to Upgrade

Keep an eye out for Aiphone's legacy audio intercom stations to take advantage of existing infrastructure.

Learn more at **aiphone.com/glc_save**

Audio Intercoms

LEF Series
Selective Call &
All Call Intercom
→ p. 48



QuikSpec

LEM Series
Open Voice Intercom
→ p. 50



QuikSpec

LEM-1DL Series
Access Sentry Intercom
→ p. 51



QuikSpec

C-123L/A & C-123LW Sets
ChimeCom
→ p. 52



QuikSpec

CCS-1A Set
ChimeCom2
→ p. 53



QuikSpec

IE-8 Series
Chime Tone Intercom
→ p. 54



QuikSpec

AT-406 Series
Handset to Handset Intercom
→ p. 55



MC Series
MarketCom
→ p. 56



TD-H Series
Selective Call Intercom
→ p. 57



IM Series
Security Window Intercom
→ p. 58



NHX Series
Nurse Call Intercom (UL 1069 Listed)
→ p. 59



QuikSpec

NIM Series
Nurse Call Intercom
→ p. 60



Look for the QuikSpec Logo!

Aiphone's online system design tool ensures you will have the right parts to upgrade legacy LE/NE Series systems.

quikspec.com

QuikSpec

LEF Series Selective Call & All Call Intercom

*Upgrade the LEF Series to an IP intercom with a network adaptor!



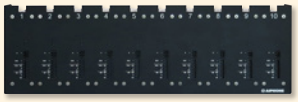
LE Series Door/Sub Station

2 wires
Aiphone #822202
(max. 650')



IX-1AS
2-Wire Audio Door/Sub Station Network Adaptor
- Supports 1 LE Series Door/Sub Station
- PoE

→ p. 81



IX-10AS
2-Wire Audio Door/Sub Station Network Adaptor
- Supports up to 10 LE Series Door/Sub Stations
- PoE

→ p. 81

LAN



IX-MV7-HB
IP Video Master Station
→ p. 79



IX Mobile App
Mobile App Sub Master Station for Smartphones and Tablets
(mobile devices not included)
→ p. 80

NOTE: *The IX Mobile App requires 1 master station and 1 IXW-MA per 8 apps in the system.*



IXW-MA
IP Relay Adaptor
→ p. 80

Door Stations, Sub Stations, Speakers, & Paging Adaptor: mix and match up to 10 (requires 1 master station)



LE-D
Audio Door Station
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 96



LE-SS-1G
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 1-gang box)*

→ p. 96



LE-DA
Audio Door Station
- Stainless steel cover
- Weather resistant
- Flush mount *(fits 2-gang box)*

→ p. 96



LE-SS/A
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 96



LE-SSR
Audio Door Station
- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 96



LS-NVP/C
Audio Door Station
- Powder-coated steel
- Weather and vandal resistant
- Flush mount *(fits 3-gang box)*

→ p. 96



LE-A
Audio Sub Station
- Surface mount

→ p. 95



LE-AN
Privacy Audio Sub Station
- Surface mount
- Privacy button

→ p. 95



LE-B
Audio Sub Station
- Semi-flush mount

→ p. 95



LE-BN
Privacy Audio Sub Station
- Semi-flush mount
- Privacy button

→ p. 95



LEF-1C
Audio Sub Master Station
(requires BG-10C)
- All Call button
- Semi-flush mount

→ p. 95



SP-20N/A
Ceiling Speaker Sub Station *(requires NP-25V)*
- 8Ω with 20Ω transformer
- Indoor use
- Flush mount

→ p. 109



BA-1
Paging Adaptor
→ p. 109

Master/Sub Station Features

- Monitoring and Selective Call
- 3, 5, and 10-call master stations
- Push-to-talk at master, hands-free reply at called station
- Call tone and LED annunciation at master
- Selective door release (with 1 RY-PA per door) on LEF-3L, LEF-5, LEF-5C, LEF-10, LEF-10S, and LEF-10C master stations
- All Call with LEF-10S and all LEF-C masters (requires BG-10C)

System Features

- Intermix doors, masters, subs, speakers, and paging adaptors to create desired communication (up to 11 total components)
- Wide variety of master and sub stations available

Specifications

Power Source	12V DC — use PS-1208UL (use PS-1225UL if installing BG-10C)
Communication	Push-to-talk (simplex)
Door Release	N/O dry contact, 24V DC, 1A — use EL-12S (1 RY-PA required per door strike)
Wire Type	Variable wire types – see table on page 48
Distance	Door Station or Sub Station to farthest Master Station: 650' (22 AWG) 1,600' (18 AWG)

LEF Series Wire Types	Wire #	Gauge	Conductor
▼ LEF Standard Wiring			
LEF-3	822210	22 AWG	10 conductor, overall shield
LEF-5	822212	22 AWG	12 conductor, overall shield
LEF-10, LEF-10S	822220	22 AWG	20 conductor, overall shield
▼ LEF-C Wiring			
LEF-1C homerun to BG-10C	822212	22 AWG	12 conductor, overall shield
LEF-1C looped (max. 9 stations)	822220	22 AWG	20 conductor, overall shield
LEF-3C	822212	22 AWG	12 conductor, overall shield
LEF-5C	822215	22 AWG	15 conductor, overall shield
LEF-10C	822220	22 AWG	20 conductor, overall shield
BG-10C to Master	822220	22 AWG	20 conductor, overall shield
▼ Sub/Door Station Wiring			
Homerun (22AWG)	822203	22 AWG	3 conductor, overall shield
Homerun (18AWG)	821803	18 AWG	3 conductor, overall shield
Looped (max. 4 stations)	822206	22 AWG	6 conductor, overall shield
Looped (max. 8 stations)	822210	22 AWG	10 conductor, overall shield
▼ LEF + Door Release Wiring			
LEF-3L	822212	22 AWG	12 conductor, overall shield
LEF-5, LEF-5C	822220	22 AWG	20 conductor, overall shield
LEF-10, LEF-10S, LEF-10C	822220 + 822210	22 AWG	20 conductor, overall shield + 10 conductor, overall shield

Mix and match up to 11 LEF components

QuikSpec

Master Stations: mix and match up to 11



LEF-3
3-Call Audio Master Station
- Surface mount

→ p. 95



LEF-3L
3-Call Audio Master Station
- Selective door release
- Surface mount

→ p. 95



LEF-3C
3-Call Audio Master Station
- All Call button *(requires BG-10C)*
- Semi-flush mount

→ p. 95



LEF-5
5-Call Audio Master Station
- Selective door release
- Surface mount

→ p. 95



LEF-5C
5-Call Audio Master Station
- All Call button *(requires BG-10C)*
- Selective door release
- Semi-flush mount

→ p. 95



LEF-10
10-Call Audio Master Station
- Selective door release
- Surface mount

→ p. 95



LEF-10S
10-Call Audio Master Station
- All Call button *(requires BG-10C)*
- Selective door release
- Surface mount

→ p. 95



LEF-10C
10-Call Audio Master Station
- All Call button *(requires BG-10C)*
- Selective door release
- Semi-flush mount

→ p. 95

IMPORTANT VOLTAGE NOTICE:
Use 12V DC voltage only! Connecting AC voltage to an LEF Master Station can damage the unit.



PS-1225UL
12V DC, 2.5A Power Supply
(required if using BG-10C, otherwise use PS-1208UL)

→ p. 111



PS-1208UL
12V DC, 800mA Power Supply

→ p. 111

Accessories



KMB-45
45° Mullion Mounting Bracket for LE-D

→ p. 107



SBX-1G
Surface Mount Box for LE-SS-1G

→ p. 106



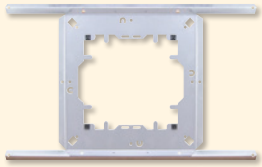
SBX-2G/A
Surface Mount Box for LE-DA, LE-SS/A, or LE-SSR

→ p. 106



SBX-NVP/A
Surface Mount Box for LS-NVP/C

→ p. 106



SSB-2
Ceiling Support Bracket for SP-20N/A

→ p. 109



BBX-1E
Flush Mount Back Box for LE-B, LE-BN, LEF-1C, or LEF-3C

→ p. 108

BBX-3E *(not shown)*
Flush Mount Back Box for LEF-5C or LEF-10C

→ p. 108



EL-12S
Electric Door Strike for Wood Frames *(requires PT-1210NA)*

→ p. 105



RY-PA
Door Release Relay

→ p. 96



LT-1
20Ω-to-8Ω Matching Transformer

→ p. 96



LEW-5, LEW-10, LEW-10S
Terminal Box

→ p. 96



BG-10C
All Call, Chime, and Music Adaptor *(requires PS-1225UL)*

→ p. 96

NP-25V
33µF, 25V Non-Polarized Capacitor

→ p. 109



RY-AC/A
External Signaling Relay

→ p. 110

Dimensions

	INCHES					MILLIMETERS				
	Height	Width	Depth	Recessed	Diameter	Height	Width	Depth	Recessed	Diameter
BA-1	4-1/8"	2-1/2"	1-1/2"	-	-	105	64	38	-	-
LE-A, LE-AN	6-5/16"	5-3/16"	2"	-	-	160	131	51	-	-
LEF-3, LEF-3L	7-1/16"	5-5/8"	2-1/8"	-	-	180	143	53.5	-	-
LE-B, LE-BN, LEF-1C, LEF-3C	8-3/16"	6"	2"	9/16"	-	208	153	50.5	15	-
LE-D	4-3/4"	3-7/16"	1-1/8"	-	-	120	88	29	-	-
LE-DA	4-1/2"	4-9/16"	*	-	-	115	116	*	-	-
LEF-5, LEF-10, LEF-10S	8-1/8"	7-1/2"	2-3/16"	-	-	206	190	55	-	-
LEF-5C, LEF-10C	9-3/8"	7-7/8"	3"	1-9/16"	-	238	200	75.5	40	-
LE-SS/A, LE-SSR	4-3/4"	4-3/4"	*	-	-	119.89	119.89	*	-	-
LE-SS-1G	4-1/2"	2-3/4"	*	-	-	114.3	69.85	*	-	-
LS-NVP/C	7-1/2"	5-1/2"	*	-	-	191	140	*	-	-
SP-20N/A	-	-	**	-	12-7/8"	-	-	**	-	327

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.
**SP-20N/A has a 3/8" depth projection from the surface.

Wiring

There are many different wiring configurations possible with the LEF Series.

For additional help, contact Aiphone's Technical Support.

800.692.0200



DOOR/SUB 3 x MASTER 1

LEM Series Open Voice Intercom

QuikSpec

Door Stations, Sub Stations, Speakers, & Paging Adaptor: mix and match up to 3



LE-D
Audio Door Station
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 96



LE-SS-1G
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 1-gang box)*

→ p. 96



LE-DA
Audio Door Station
- Stainless steel cover
- Weather resistant
- Flush mount *(fits 2-gang box)*

→ p. 96



LE-SS/A
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 96



LE-SSR
Audio Door Station
- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 96



LS-NVP/C
Audio Door Station
- Powder-coated steel panel
- Weather and vandal resistant
- Flush mount *(fits 3-gang box)*

→ p. 96



LE-A
Audio Sub Station
- Surface mount

→ p. 95

LE-AN *(not shown)*
Privacy Audio Sub Station
- Surface mount
- Privacy button

→ p. 95



LE-B
Audio Sub Station
- Semi-flush mount

→ p. 95

LE-BN *(not shown)*
Privacy Audio Sub Station
- Semi-flush mount
- Privacy button

→ p. 95



SP-20N/A
Ceiling Speaker Sub Station
(requires NP-25V)
- 8Ω with 20Ω transformer
- Indoor use
- Flush mount

→ p. 109



BA-1
Paging Adaptor

→ p. 109

Master Stations: select 1



LEM-1
1-Call Audio Master Station
(for applications using 1 door/sub station)
- Surface mount

→ p. 97



LEM-3
3-Call Audio Master Station
(for applications using 2 or 3 door/sub stations)
- Surface mount

→ p. 97

2 wires Aiphone #822202 (max. 650' between master and farthest sub)

2 wires (max. 66')



SKK-620C
6V DC, 200mA Power Supply

→ p. 111

Accessories



KMB-45
45° Mullion Mounting Bracket for LE-D

→ p. 107



SBX-1G
Surface Mount Box for LE-SS-1G

→ p. 106



SBX-2G/A
Surface Mount Box for LE-DA, LE-SS/A, or LE-SSR

→ p. 106



SBX-NVP/A
Surface Mount Box for LS-NVP/C

→ p. 106



BBX-1E
Flush Mount Back Box for LE-B or LE-BN

→ p. 108



NP-25V
33µF, 25V Non-Polarized Capacitor

→ p. 109



LT-1
20Ω-to-8Ω Matching Transformer

→ p. 96

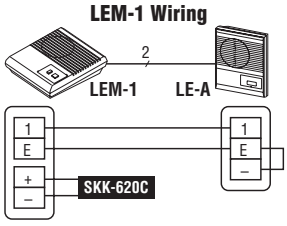
Master Station Features

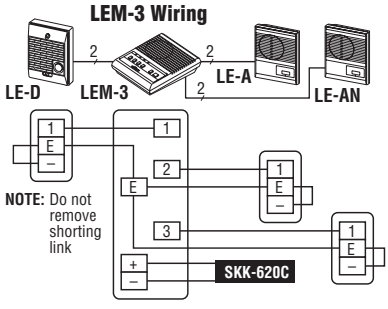
- Voice volume control

System Features

- Push-to-talk at master and hands-free at remote

Wiring





Dimensions

	INCHES					MILLIMETERS				
	Height	Width	Depth	Recessed	Diameter	Height	Width	Depth	Recessed	Diameter
BA-1	4-1/8"	2-1/2"	1-1/2"	-	-	105	64	38	-	-
LE-A, LE-AN, LEM-1	6-5/16"	5-3/16"	2"	-		160	131	51	-	
LEM-3	7-1/16"	5-5/8"	2-1/8"	-		180	143	53.5	-	
LE-B, LE-BN	8-3/16"	6"	2"	9/16"		208	153	50.5	15	
LE-D	4-3/4"	3-7/16"	1-1/8"	-		120	88	29	-	
LE-DA	4-1/2"	4-9/16"	*	-		115	116	*	-	
LE-SS/A, LE-SSR	4-3/4"	4-3/4"	*	-		119.89	119.89	*	-	
LE-SS-1G	4-1/2"	2-3/4"	*	-		114.3	69.85	*	-	
LS-NVP/C	7-1/2"	5-1/2"	*	-		191	140	*	-	
SP-20N/A	-	-	**	-	12-7/8"	-	-	**	-	327

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.
**SP-20N/A has a 3/8" depth projection from the surface.

Specifications

Power Source	6V DC — use SKK-620C
Communication	Push-to-talk (simplex)
Door Release	N/A
Wire Type	Door Station or Sub Station to Master Station: 2-cond., overall shield — use Aiphone #822202 or #821802
Distance	Door Station or Sub Station to Master Station: 650' (22 AWG) 1,570' (18 AWG)

DOOR 1 x MASTER 4

LEM-1DL Series Access Sentry Intercom

QuikSpec

Door Stations: select 1



LE-D
Audio Door Station
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 96



LE-SS-1G
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 1-gang box)*

→ p. 96



LE-DA
Audio Door Station
- Stainless steel cover
- Weather resistant
- Flush mount *(fits 2-gang box)*

→ p. 96



LE-SS/A
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 96



LE-SSR
Audio Door Station
- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 96



LS-NVP/C
Audio Door Station
- Powder-coated steel
- Weather and vandal resistant
- Flush mount *(fits 3-gang box)*

→ p. 96

2 wires
Aiphone #822202
(max. 650' between door and farthest master)

2 wires

Door Strike and Power

2 wires



PT-1210NA
12V AC Transformer
(1 required per master station)

→ p. 111

Master Stations: select 1



LEM-1DL
Audio Master Station
- Door release button

→ p. 97



LEM-1DLC
Audio Master Station
- Multi-master *(max. 4)*
- Door release button
- Occupied LED

→ p. 97



PT-1210NA
12V AC Transformer
(1 required per master station)

→ p. 111

LEM-1DL
2 + 2 wires
Aiphone #822202
(max. 650' between door and farthest master)

LEM-1DLC
3 + 2 wires
Aiphone #822203 and #822202
(max. 650' between door and farthest master)

Master Stations: select 1 (optional)



LEM-1DL
Audio Master Station
(requires 1 DAK-2S per every 2 master stations in the system)
- Door release button

→ p. 97



LEM-1DLC
Audio Master Station
- Multi-master *(max. 4)*
- Door release button
- Occupied LED

→ p. 97

Accessories



KMB-45
45° Mullion Mounting Bracket for LE-D

→ p. 107



SBX-1G
Surface Mount Box for LE-SS-1G

→ p. 106



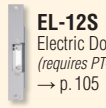
SBX-2G/A
Surface Mount Box for LE-DA, LE-SS/A, or LE-SSR

→ p. 106



SBX-NVP/A
Surface Mount Box for LS-NVP/C

→ p. 106



EL-12S
Electric Door Strike *(requires PT-1210NA)*

→ p. 105



DAK-2S
Dual Master Adaptor Kit

→ p. 110



RY-AC/A
External Signaling Relay
(requires shared PS-1225UL with LEM-1DL and DAK-2S or shared PS-1225UL with LEM-1DLC)

→ p. 110

Box Set



LEM-1DLS:
LEM-1DL, LE-D, and PT-1210NA

Master Station Features

- Door release (N/O contact)
- Calling and 2-way communication with door station
- Call tone and voice volume control

System Features

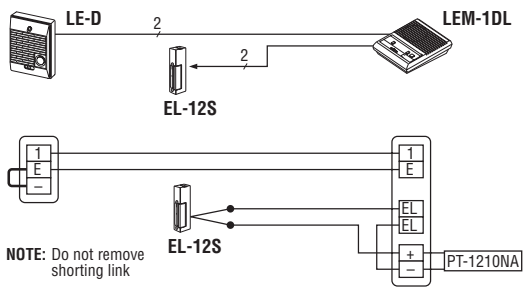
- 12–16V AC or 12–24V DC powered
- Any LE or LS Series door station is compatible

Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
LE-D	4-3/4"	3-7/16"	1-1/8"	120	88	29
LE-DA	4-1/2"	4-9/16"	*	115	116	*
LEM-1DL, LEM-1DLC	7-1/16"	5-5/8"	2-1/8"	180	143	53.5
LE-SS/A, LE-SSR	4-3/4"	4-3/4"	*	119.89	119.89	*
LE-SS-1G	4-1/2"	2-3/4"	*	114.3	69.85	*
LS-NVP/C	7-1/2"	5-1/2"	*	191	140	*

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

Wiring



Specifications

Power Source 12–16V AC — use PT-1210NA or 12–24V DC — use PS-1208UL

Communication Push-to-talk (simplex)

Door Release N/O dry contact, 30V AC/DC, 1A — use EL-12S

Wire Type Door Station to Master Station: 2-cond., overall shield — use Aiphone #822202 or #821802

Between LEM-1DLCs: 3-cond., overall shield — use Aiphone #822203 or #821803

Distance Door Station to farthest Master Station: 650' (22 AWG) 1,570' (18 AWG)

Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions.

C-123L/A & C-123LW Sets ChimeCom

QuikSpec

Box Sets: select 1 (door station not sold separately – choose C-123L/A for a 1 x 1 system or C-123LW for a 1 x 2 system)



C-123L/A
Single Master Station Box Set with C-D and C-ML/A



C-123LW
Dual Master Station Box Set with C-D, 2 C-ML/As, and DAK-2S

available only as **BOX SETS**

Door Station (select a box set)



C-D
Audio Door Station
(included with both C-123L/A and C-123LW box sets – not sold separately)
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 66

Master Station (1 included with C-123L/A box set and 2 included with C-123LW box set)

C-ML/A
Audio Master Station
(includes DAK-2S dual master adaptor kit)
- Surface mount

→ p. 66



2 x 2 wires
Aiphone #822202
(max. 245' between door and farthest master)

C-ML/A
Audio Master Station
(includes DAK-2S dual master adaptor kit)
- Surface mount

→ p. 66



2 wires
Aiphone #822202
(max. 245' between door and farthest master)

2 wires

Door Strike and Power

2 wires
Aiphone #822202



SKK-620C
6V DC, 200mA Power Supply
→ p. 111
or 4 C Batteries

2 wires
Aiphone #822202



SKK-620C
6V DC, 200mA Power Supply
→ p. 111
or 4 C Batteries

Accessories



KMB-45
45° Mullion Mounting Bracket for C-D
→ p. 107



EL-12S
Electric Door Strike for Wood Frames
(requires PT-1210NA)
→ p. 105

Door Station Features

- Any LE or LS Series door station can replace C-D
- LE-D is physically identical to C-D

Master Station Features

- Adjustable communication volume
- Batteries or 6V DC power supply (1 per master)
- Automatically turns off in 20 seconds

System Features

- Single master station box set includes a door station and master station (power sold separately)
- Dual master station box set includes a door station, 2 master stations, and a dual master adaptor kit (power sold separately)
- Push-to-talk door answering with door release

Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
C-D	4-3/4"	3-7/16"	1-1/8"	120	88	29
C-ML/A	7-1/2"	5-1/8"	1-3/4"	190	130	43

Specifications

Power Source: 6V DC — use SKK-620C or 4 C Batteries

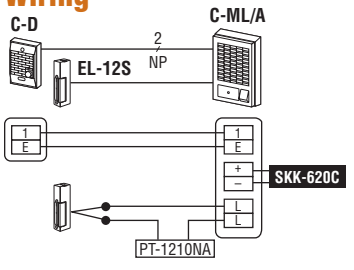
Communication: Push-to-talk (simplex)

Door Release: N/O dry contact, 50V AC, 1A — use EL-12S

Wire Type: Door Station to Master Station: 2-cond., overall shield – use Aiphone #822202 or #821802

Distance: Door Station to farthest Master Station: 245' (22 AWG) 590' (18 AWG)

Wiring



Are your customers looking for a solution similar to our C-123L/A or C-123LW Sets, but need video with the door release feature?

Check out the JS Series Economy Video Doorbell | aiphone.com/glc_js-series



DOOR 1 x MASTER 1

CCS-1A Set ChimeCom2

QuikSpec

Box Set



CCS-1A
Box Set with
CC-DA and CC-1M

available only as a ***BOX SET***

Door Station (select the box set)



CC-DA
Audio Door Station
(included with CCS-1A box set – not sold separately)
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 66

2 wires
Aiphone #822202
(max. 245' between door and master)



PT-1210NA
12V AC
Transformer
→ p. 111

2 wires
Aiphone
#822202

Master Station (select the box set)



CC-1M
Audio Master Station
(included with CCS-1A box set – not sold separately)
- Chime and voice volume controls

→ p. 66

Door Station Features

- Backlit call button

Master Station Features

- Chime and voice volume controls

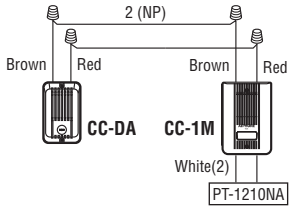
System Features

- Box set includes a door station and master station (power sold separately)
- Push-to-talk door answering with automatic shut-off
- Powered by AC transformer PT-1210NA

Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
CC-1M	7-1/16"	4-13/16"	1-5/16"	180	123	33
CC-DA	4-1/2"	2-3/4"	1-3/16"	114	70	30

Wiring



Specifications

Power Source	12–16V AC (with no-load voltage rating, 20V or less) — use PT-1210NA
Communication	Push-to-talk (simplex)
Door Release	N/A
Wire Type	Door Station to Master Station: 2-cond., overall shield — use Aiphone #822202 or #821802
Distance	Door Station to Master Station: 245' (22 AWG) 590' (18 AWG)

Are your customers looking for a solution similar to our CCS-1A Set, but need video too?

Check out the WL-11 Wirless Video Intercom | aiphone.com/glc_WL-11



Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions.

IE-8 Series Chime Tone Intercom

QuikSpec

Door Stations: mix and match up to 2



AX-DM
Audio Door Station
- Plastic chassis
- Weather resistant
- Mullion surface mount

→ p. 64



IF-DA
Audio Door Station
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 73



IE-JA
Audio Door Station
- Stainless steel cover
- Weather resistant
- Flush mount *(fits 2-gang box)*

→ p. 73



IE-SS/A
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 73



IE-SSR
Audio Door Station
- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 73

2 wires
Aiphone #822202
(max. 500')

2 wires

Door Strike and Power

Master Station



IE-8MD
6-Call Audio Master Station
- Handset for privacy

→ p. 73

2 wires
Aiphone #822202
(max. 33')



PT-1210NA
12V AC Transformer

→ p. 111

4 wires
Aiphone #822206
(max. 245' between master and farthest sub master)

Sub Master Station: select up to 5 (optional)



IE-8HD
6-Call Audio Sub Master Station
- Handset for privacy

→ p. 73

Accessories



SBX-2G/A
Surface Mount Box for IE-JA, IE-SS/A, or IE-SSR

→ p. 106



EL-12S
Electric Door Strike for Wood Frames *(requires PT-1210NA)*

→ p. 105



RY-AC/A
External Signaling Relay

→ p. 110

Door Station Features

- 2 wires to door stations, same as doorbell

Master Station Features

- Selective Call or All Call between handsets
- Simple 4 conductor wiring between handsets

System Features

- Two doors with Selective Door Release
- External doorbell can be added
- 12–16V AC or 12–18V DC powered

Specifications

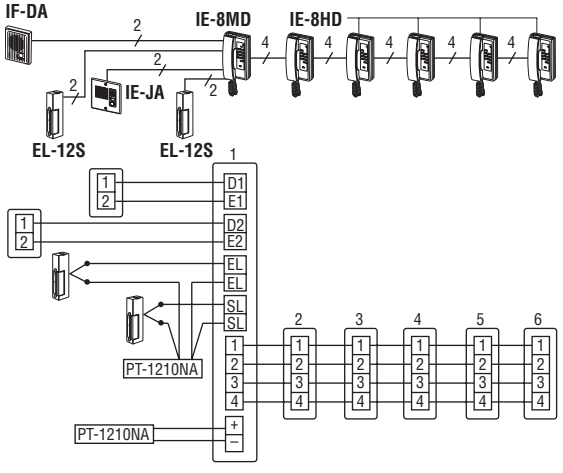
Power Source	12–16V AC — use PT-1210NA or 12–18V DC — use PS-1225UL
Communication	Handset (full-duplex)
Door Release	N/O dry contact, 24V AC/DC, 350mA — use EL-12S
Wire Type	Door Station to Master Station: 2-cond., overall shield — use Aiphone #822202 Master Station to Sub Stations: 4-cond., overall shield — use Aiphone #822206
Distance	Door Station to Master Station: 500' (22 AWG) 1,180' (18 AWG) Master Station to farthest Sub Master Station: 245' (22 AWG) 580' (18 AWG)

Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
AX-DM	6-5/16"	1-11/16"	7/8"	160	43	22.5
IE-8MD, IE-8HD	8-1/4"	4-5/16"	3-1/8"	210	110	79
IE-JA	4-1/2"	4-9/16"	*	115	116	*
IE-SS/A, IE-SSR	4-3/4"	4-3/4"	*	121	121	*
IF-DA	5-1/8"	3-7/8"	1-1/8"	130	98	28.5

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

Wiring



MASTER 1 x SUB 3 or 1 AT-406 Series Handset to Handset Intercom

Master Station



AT-206
White Audio Master Station
(not sold separately)
- Handset for privacy

→ p. 63

2 wires
Aiphone #822202
(max. 2,300')

2 wires (max. 12')



SKK-620C
6V DC, 200mA Power Supply
→ p. 111

or 4 AA Batteries

Sub Station: select up to 3



AT-306
White Audio Sub Station
- Handset for privacy

→ p. 63

Box Sets



AT-406 (white):
AT-206 and AT-306



AT-406B/A (charcoal gray):
AT-206B and AT-306B with 4' coil cord

or

Master Station



AT-206B
Charcoal Gray Audio Master Station
(not sold separately)
- Handset for privacy
- 4' coil cord
- Designed for use in limos, RVs, boats, and other recreational vehicles

→ p. 63

2 wires
Aiphone #822202
(max. 2,300')

2 wires (max. 12')



SKK-620C
6V DC, 200mA Power Supply
→ p. 111

or 4 AA Batteries

Sub Station



AT-306B
Charcoal Gray Audio Sub Station
(not sold separately)
- Handset for privacy
- 4' coil cord
- Designed for use in limos, RVs, boats, and other recreational vehicles

→ p. 63

Master/Sub Station Features

- Call button on master rings all the subs
- Power supply or battery powered
- Sub(s) ring master only

System Features

- Up to two additional subs can be added (AT-306)

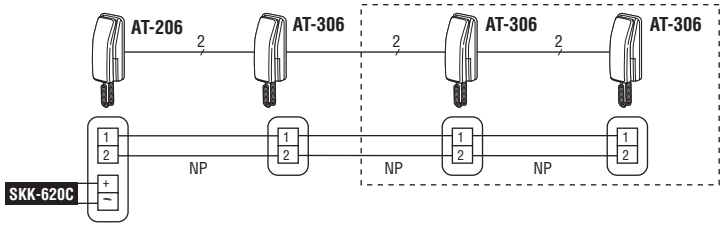
Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
AT-206, AT-206B, AT-306, AT-306B	8-1/4"	3-1/8"	2-1/16"	210	80	52

Specifications

Power Source	6V DC — use SKK-620C or 4 AA batteries
Communication	Handset (full-duplex)
Door Release	N/A
Wire Type	Master Station to Sub Station: 2-cond., overall shield — use Aiphone #822202
Distance	2-Station Set: 2,300' (22 AWG) 5,250' (18 AWG)
	Master Station to 3rd Sub Station: 1,350' (22 AWG) 3,100' (18 AWG)

Wiring



Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions.

MC Series MarketCom

Master Station: select up to 60



MC-60/4A
Audio MarketCom Master Station
- 4 communication channels with LED indicators
- Easy access page button
- Handset for privacy

→ p. 98

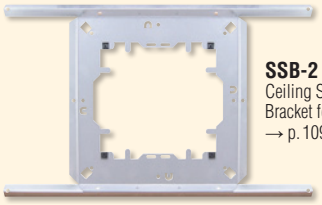
7 wires
Aiphone #852207
(see wire distance in specifications below)



MC-60/4A
Audio MarketCom Master Station
- 4 communication channels with LED indicators
- Easy access page button
- Handset for privacy

→ p. 98

Accessories



SSB-2
Ceiling Support Bracket for SP-2570N
→ p. 109

7 wires
Aiphone #852207
(see wire distance in specifications below)

Paging Amplifiers
(1 required per paging adaptor)



MD35M
35W Paging Amplifier
→ p. 109



MD60M
60W Paging Amplifier
→ p. 109



MD120M
120W Paging Amplifier
→ p. 109

Paging Speaker: install number of speakers needed (based on amplifier wattage)



SP-2570N
Ceiling Speaker
- 8Ω, 25/70V, 5W
- Indoor use
- Flush mount

→ p. 109

Paging Adaptor (1 required per 60 master stations for paging)



MC-A/A
Paging Adaptor
→ p. 98



PS-2420UL
24V DC, 2A Power Supply
→ p. 111

2 wires
Aiphone #822202
(max. 16')

2 wires
Aiphone #822202
(max. 500')

2 wires
Aiphone #821802

System Features

- Maximum 60 station paging and communication system
- Selective 4 talk channels with in-use LED's
- Conference call among 3 stations
- Music goes mute while paging
- Reinforced modular coil cord on MC-60/4A

Dimensions

	INCHES				MILLIMETERS			
	Height	Width	Depth	Diameter	Height	Width	Depth	Diameter
MC-60/4A	9-3/16"	3-9/16"	3-11/16"	-	234	90	94	-
MC-A/A	2"	3-9/16"	5-5/8"	-	51.5	91	143	-
MD35M, MD60M, MD120M	1-3/4"	8-1/2"	12-1/2"	-	44.5	215.9	317.5	-
SP-2570N	-	-	**	12-7/8"	-	-	**	327

**SP-2570N has a 3/8" depth projection from the surface.

Specifications

Power Source: 24V DC — use PS-2420UL

Communication: Handset (full-duplex)

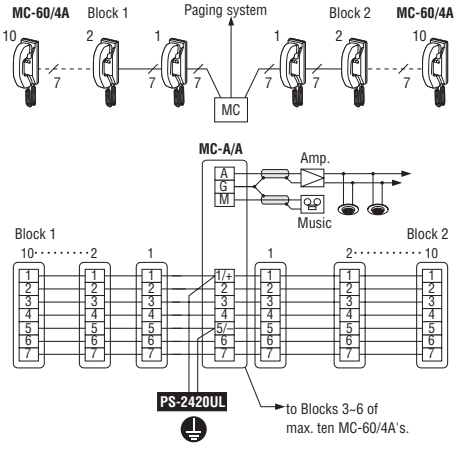
Door Release: N/A

Wire Type: 7 wires in loop, non-twisted, low capacitance, PE insulation — use Aiphone #852207

Distance: Paging Adaptor to farthest Master Station on block: 1,700' (22 AWG) 4,000' (18 AWG)

Total cumulative wiring between Paging Adaptor and Master Station: 5,000' (22 AWG)

Wiring



STATIONS 25

TD-H Series Selective Call Intercom

Door Stations: mix and match up to 2 (counts toward total capacity of 25 stations)



AX-DM Audio Door Station
- Plastic chassis
- Weather resistant
- Mullion surface mount

→ p. 64



IF-DA Audio Door Station
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 73



IE-JA Audio Door Station
- Stainless steel cover
- Weather resistant
- Flush mount *(fits 2-gang box)*

→ p. 73



IE-SS/A Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 73



IE-SSR Audio Door Station
- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 73

Master Stations: mix and match up to 25 (mix and match up to 23 if using the maximum of 2 door stations or mix and match up to 11 if using the maximum of 2 door stations and 12 paging adaptors)



TD-1H/B 1-Call Audio Master Station *(cannot be used for door answering)*
- Handset for privacy

→ p. 102

TD-6H/B *(not shown)* 6-Call Audio Master Station
- Handset for privacy

→ p. 102

TD-3H/B *(not shown)* 3-Call Audio Master Station
- Handset for privacy

→ p. 102

TD-12H/B *(not shown)* 12-Call Audio Master Station
- Handset for privacy

→ p. 102



TD-24H/B 24-Call Audio Master Station
- Handset for privacy

→ p. 102

4 wires Aiphone #822206

2 wires Aiphone #822202 (max. 500')

Door Station Adaptor (1 required per door station)



DE-UR Door Station Adaptor

→ p. 102

2 wires Aiphone #822202

3 wires Aiphone #822203



PS-1225UL 12V DC, 2.5A Power Supply

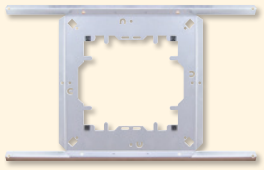
→ p. 111

Accessories



SBX-2G/A Surface Mount Box for IE-JA, IE-SS/A, or IE-SSR

→ p. 106



SSB-2 Ceiling Support Bracket for SP-2570N

→ p. 109



TDW-nA Terminal Box for TD-nH/B *(n=1, 3, 6, 12 or 24)*

→ p. 103



RY-AC/A External Signaling Relay

→ p. 110

Paging Speaker: install number of speakers needed (based on amplifier wattage)



SP-2570N Ceiling Speaker
- 8Ω, 25/70V, 5W
- Indoor use
- Flush mount

→ p. 109

Paging Amplifiers (1 required per paging adaptor)

MD35M *(not shown)* 35W Paging Amplifier

→ p. 109

MD60M *(not shown)* 60W Paging Amplifier

→ p. 109



MD120M 120W Paging Amplifier

→ p. 109

2 wires Aiphone #822202

Paging Adaptors: mix and match up to 12 (counts toward total capacity of 25 stations and requires 1 paging amplifier per paging adaptor)



PD-1 Zone Paging Adaptor

→ p. 103



PD-2 Zone Paging/Talkback Adaptor

→ p. 103

2 wires Aiphone #822202

System Features

- Up to 2 door stations and 23 master stations can be installed
- 1, 3, 6, 12, and 24-call handset audio master stations available
- Paging zone(s) with optional talkback
- External signaling device when calling a handset (requires RY-AC/A)

Wiring

There are many different wiring configurations possible with the TD-H Series.
For additional help, contact Aiphone's Technical Support.
800.692.0200



Specifications

Power Source 12V DC — use PS-1225UL

Communication Handset (full-duplex)

Door Release N/O dry contact, 30V AC/DC, 1A (at DE-UR)

Wire Type
Door Station to DE-UR: 2 cond., overall shield — use Aiphone #822202

DE-UR to Master Station: 6 cond., overall shield — use Aiphone #822206

TD-1H/B: 6 cond., overall shield — use Aiphone #822206

TD-3H/B, TD-6H/B: 10 cond., overall shield — use Aiphone #822210

TD-12H/B, TD-24H/B: 16 cond., overall shield — use Aiphone #812216 (two runs of 812216 are required for full functionality of the TD-24H/B)

Distance
Door Station to Adaptor: 500' (22 AWG) 1,200' (18 AWG)

Between Master Stations: 2,000' (22 AWG) 4,800' (18 AWG)

Dimensions

	INCHES				MILLIMETERS			
	Height	Width	Depth	Diameter	Height	Width	Depth	Diameter
AX-DM	6-5/16"	1-11/16"	7/8"	-	160	43	22.5	-
DE-UR	6-5/16"	5-7/8"	1-3/4"	-	160	150	45	-
IE-JA	4-1/2"	4-9/16"	*	-	115	116	*	-
IE-SS/A, IE-SSR	4-3/4"	4-3/4"	*	-	121	121	*	-
IF-DA	5-1/8"	3-7/8"	1-1/8"	-	130	98	28.5	-
MD35M, MD60M, MD120M	1-3/4"	8-1/2"	12-1/2"	-	44.5	215.9	317.5	-
PD-1, PD-2	2"	3-9/16"	5-7/16"	-	51.5	90	138	-
SP-2570N	-	-	**	12-7/8"	-	-	**	327
TD-nH/B (n = 1, 3, 6, or 12)	8-1/4"	3-15/16"	2-7/8"	-	210	100	73	-
TD-24H/B	8-1/4"	3-15/16"	3-1/4"	-	210	100	83	-

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.
**SP-2570N has a 3/8" depth projection from the surface.

Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions.

SPEAKER KIT 1 x CONTROL KIT 1

IM Series Security Window Intercom

Box Set

IM-1
Box Set with IMU-100, IAI-100, IAX-100, IME-100, ISE-100, and PS-2420UL



START with a BOX SET

Speaker Driver, Acoustic I/O Tube, & Tube Extension

IAI-100
Speaker Driver and Acoustic I/O Tube Kit
(includes DR-100 Speaker Driver and AI-100 Acoustic I/O Tube with noise cancelling microphone.)
→ p. 74

NOTE: *Image shown with IAX-100 acoustic tube extension (not included in IAI-100 kit).*

DR-100
Speaker Driver
(not sold separately)
- Window or ceiling mount
- Indoor or outdoor use
- Access panel for future maintenance

→ p. 74

AI-100
Acoustic I/O Tube
(not sold separately)
- Noise cancelling microphone
- Mounting rails included

→ p. 74

IAX-100
Acoustic Tube Extension
(1 required per system)
→ p. 74

Control Unit & Operation Unit

IMU-100
Control and Operation Unit Kit
(includes MU-100 Control Unit and OU-100 Operation Unit with supplied connector. IME-100 Gooseneck Microphone sold separately.)
→ p. 74

IME-100
Gooseneck Microphone
(sold separately)
- Flexible neck
- Hands-free communication

→ p. 74



MU-100
Control Unit
(not sold separately)
- Operation, sensitivity, volume, and power controls
- Rubber feet prevent slipping
- Desk mount or mount under the counter with supplied bracket

→ p. 74

OU-100
Operation Unit
(not sold separately)
- Supplied connector
- Rubber feet prevent slipping
- Desk mount

→ p. 74

2 wires Aiphone #822202 (max. 66')

2 wires Aiphone #821802 (max. 66')

2 wires Aiphone #821802 (max. 66')



PS-2420UL
24V DC, 2A Power Supply
→ p. 111

Accessories



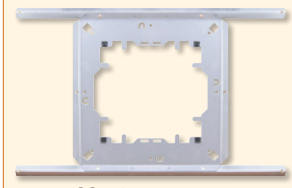
ISE-100
Proximity Sensor
→ p. 74



IME-150
Optional Microphone
→ p. 74



SP-2570N
8Ω, 25/70V, 5W Ceiling Speaker
→ p. 109



SSB-2
Ceiling Support Bracket for SP-2570N
→ p. 109

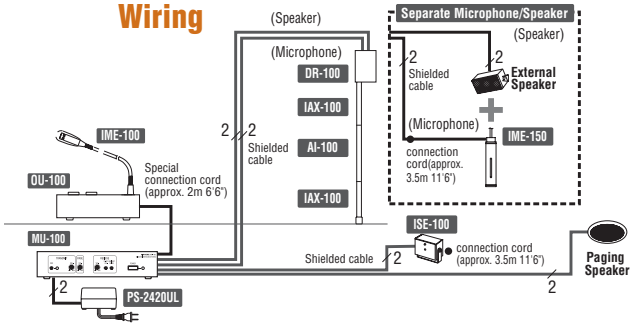
System Features

- Inconspicuous units do not obscure faces of those approaching a ticket/customer window for added visibility and security
- Flexible gooseneck microphone can be adjusted to virtually any position
- Computer style headset can be used (not supplied by Aiphone)
- Uses voice-actuated communication (VOX) system, requiring no additional operations during conversation
- When the TALK switch is off, the Operation Unit is put on standby, but sound from public side is still heard at reduced volume
- By linking the system to a motion sensor, communication mode is automatically activated when a customer is present

Dimensions

	INCHES				MILLIMETERS			
	Height	Width	Depth	Diameter	Height	Width	Depth	Diameter
AI-100	15-1/4"	1-1/16"	15/16"	-	388	27	24	-
DR-100	5-7/8"	3-5/16"	1-7/16"	-	150	84	36	-
IAX-100	39-3/8"	1-1/16"	15/16"	-	1000	27	24	-
IME-100	20-1/16"	-	-	9/16"	510	-	-	14
IME-150	4-1/2"	7/8"	1/2"	-	115	23	13	-
ISE-100	2-3/8"	2-7/8"	1-3/16"	-	60	72	30	-
MU-100	1-3/4"	8-1/4"	8-1/8"	-	45	210	206	-
OU-100	1-15/16"	5-1/8"	6-5/16"	-	49	130	160	-

Wiring



Specifications

Power Source 24V DC, 120mA standby, 780mA max. — use PS-2420UL

Communication Hands-free (VOX) or push-to-talk (simplex)

Transmit output: 3W 4Ω

Receive output: 1.5W 16Ω

Door Release N/A

Wire Type Speaker Driver to Control Unit: 2 x 2-cond., overall shield — use Aiphone #822202 or #821802

Power Supply to Control Unit: 2-cond., overall shield — use Aiphone #822202 or #821802

Distance Power Supply or Speaker Driver to Control Unit: 66' (22 AWG/18 AWG)

SUB 80 x MASTER 1 x DUTY 1

NHX Series Nurse Call Intercom (UL 1069 Listed)

QuikSpec

Sub Stations: mix and match up to 10 per trunk with up to 8 trunks



NH-1SA/A
Single-Jack Bedside Audio Sub Station
- One jack for bedside call button
- Hands-free communication
- Flush mount *(fits 2-gang box)*

→ p. 99

NH-2SA/A *(not shown)*
Dual-Jack Bedside Audio Sub Station
- Two jacks for bedside call buttons
- Hands-free communication
- Flush mount *(fits 2-gang box)*

→ p. 99



NHR-3TS
Dual Corridor Light Sub Station
(required for NHR-7A if NH-1SA/A or NH-2SA/A are not used)
- Allows the urgent call pull cord to be used without the need for a bedside station
- Two lights indicate call location
- Stainless steel cover
- Flush mount *(fits 2-gang box)*

→ p. 99

One bedside call button is required per sub station jack



NHR-8C
Bedside Call Button
- Button activates routine call at master
- Cord-out activates urgent call at master

→ p. 99

NHR-8A-L *(not shown)*
Bedside Call Button
(not UL 1069 Listed)
- Button activates routine call at master
- Cord-out activates urgent call at master
- Latching call button
- Gray color

Central Control Unit



NHX-80X
Central Control Unit
- Controls system functions with microprocessor
- Compact, slim design
- Screwless wire connectors

→ p. 98



NHR-30K
30-Call Add-On Truck Card
(required for NHX-30G)
- Installs into NHX-80X
- Provides additional capacity for NHX-30G Add-On Selector

→ p. 98

Master Station



NHX-50M
50-Call Audio Master Station
- Priority level LED indicator
- Automatically connects to next call in priority
- Handset or push-to-talk communication
- Desk mount

→ p. 99

NHX-30G
30-Call Add-On Selector
(requires NHR-30K to be installed into NHX-80X)
- Plugs into NHX-50M with supplied connectors
- Expands NHX-50M to an 80-call master station

→ p. 99

4P Aiphone #862208 (max. 330' per trunk line)

4P Aiphone #862208 (max. 65')

5P Aiphone #862210 (max. 65')

2 wires Aiphone #821802

2 wires Aiphone #821802



x2

PS-2420UL
24V DC, 2A Power Supply

→ p. 111

Duty Station (optional)



NHR-SP
Audio Duty Station
- Ideal for break rooms, hallways, or locations without a master station
- Alerts staff when a master station receives a call
- Urgent calls override routine calls
- Flush mount *(fits 2-gang box)*

→ p. 99

Accessories



NHR-7A
Urgent Call Pull Cord

→ p. 99



NHR-4A/A
LED Corridor Light *(red and amber LEDs)*

→ p. 99

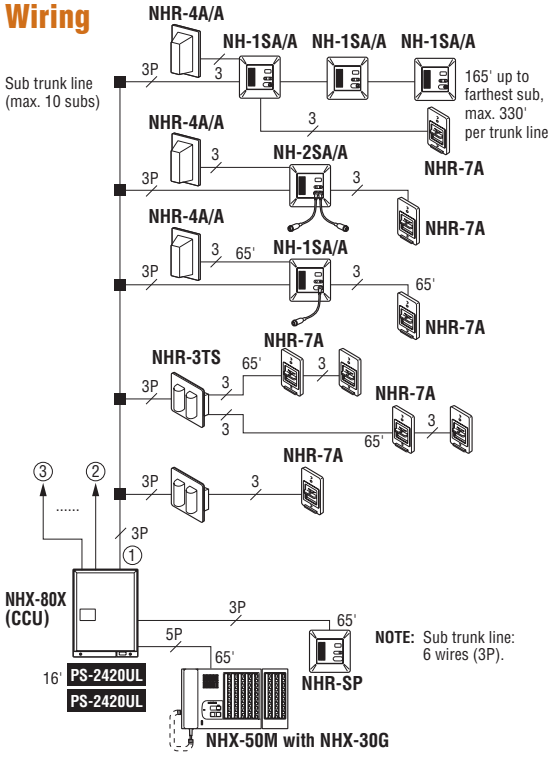
System Features

- One master, one duty, and up to 80 sub stations
- Single- and dual-jack bedside sub stations
- Multi-station capability per patient room
- Three types of call-ins from sub stations: routine call, bathroom call and cord-out trouble call, identified by tone and blinking LED (with priority according to urgency and time of call)
- NHR-3TS sub station is ideal for common areas
- Duty station for call annunciation in separate area

Specifications

See p. 98-99

Wiring



Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
NH-1SA/A, NH-2SA/A, NHR-SP	4-3/4"	4-9/16"	1-13/16"	120	116	46
NHR-3TS	4-3/4"	4-9/16"	2-7/8"	120	116	73
NHR-4A/A	4-3/4"	2-3/4"	1-1/16"	120	70	27
NHR-7A	4-1/2"	2-13/16"	1-3/4"	115	71	44
NHX-30G	8-1/4"	3-9/16"	2-5/16"	210	90	58.5
NHX-50M	8-1/4"	11"	3-11/16"	210	280	94
NHX-80X	18-1/8"	13-3/8"	3-7/8"	460	340	98

Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions.

DOOR/SUB/SPEAKER/JACK **20** or **40** x MASTER **1**

NIM Series Lamp Tone Intercom

Door Station, Sub Station, Ceiling Speaker, & Wall Jacks: mix and match up to 20 or 40 (based on master station selection)



NI-JA
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*

→ p. 100



NI-BA
Audio Sub Station
- Surface mount

→ p. 100



NI-LB
Ceiling Speaker
(use NI-SB or NIR-MB for hands-free reply)
- Call-in LED
- Indoor use
- Flush mount

→ p. 100



NIR-HP
Wall Jack for NI-RC
- Flush mount *(fits 1-gang box)*

→ p. 101



NIR-HPF
Wall Jack for NI-RC
- Includes hook to hang NI-RC
- Flush mount *(fits 2-gang box)*

→ p. 101



NIR-7BS
Wall Jack with LED Call Indicator for NIR-8
- Flush mount *(fits 1-gang box)*

→ p. 101

2 wires Aiphone #821802

2 x 2 wires Aiphone #821802

2 wires Aiphone #821802

3 wires Aiphone #821803 (max. 650')

Ceiling Microphone



NI-SB
Ceiling Microphone
(use with NI-LB)
- Hands-free reply
- Indoor use
- Flush mount

→ p. 100

Bedside Sub Station



NI-RC
Bedside Sub Station
- Handheld

→ p. 100

Call Button & Wall Jack: select desired quantity per sub station or ceiling speaker



NIR-6
Call Button
(use with NI-BA or NI-LB only)
- Flush mount *(fits 1-gang box)*

→ p. 101



NIR-1
Wall Jack for NIR-8
(use with NI-BA or NI-LB only)
- Flush mount *(fits 1-gang box)*

→ p. 101

Wall Jack: select 1 per ceiling speaker



NIR-MB
Wall Jack with Mic for NIR-8
(can be used in place of NI-SB)
- Flush mount *(fits 1-gang box)*

→ p. 101

Bedside Call Button



NIR-8
Bedside Call Button
(requires NIR-1, NIR-MB, or NIR-7BS)
- Handheld

→ p. 101

Master Station Features

- Master in 20 and 40-station sizes
- Built-in All Call, Selective Call, and Group Call
- Push-to-talk at master or use handset
- Group Call up to 5 subs at a time
- Incoming calls remain lit until answered (max. 10)
- Separate transmit and receive volume controls
- Adjustable ring tone (melody or chime)
- Automatic ringtone volume level (increases after 90 seconds)

System Features

- Optional software for call event logging (NI-SOFT)

Specifications

Power Source	48V DC — use IS-PU-UL
Communication	Handset (VOX) or push-to-talk (simplex)
Door Release	N/A
Wire Type	Door Station, Sub Station, Ceiling Speaker, or Wall Jack to Master Station: 3 cond. overall shield — use Aiphone #821803 Call Button or Corridor Lamp to Sub Station: 2 cond. overall shield — use Aiphone #821802 NIR-MB to Ceiling Speaker: 4 cond. overall shield — use two runs of #821802
Distance	Door Station or Sub Station to Master Station: 650' (18 AWG) Power Supply to Master Station: 33' (18 AWG)

NOTE: *If your application requires product to be UL 1069 Listed for hospital signaling and skilled nursing facilities, please see the NHX Series on p. 59*

Wiring

There are many different wiring configurations possible with the NIM Series.

For additional help, contact Aiphone's Technical Support.

800.692.0200



Master Stations: select 1



NIM-20B
20-Call Audio
Master Station

- Supports up to 20 door stations, sub stations, ceiling speakers, and wall jacks
- Selective Call, Group Call, and All Call
- Volume controls
- Handset for privacy

→ p. 100



NIM-40B
40-Call Audio
Master Station

- Supports up to 40 door stations, sub stations, ceiling speakers, and wall jacks
- Selective Call, Group Call, and All Call
- Volume controls
- Handset for privacy

→ p. 100

2 wires
Aiphone
#821802
(max. 33')



IS-PU-UL
48V DC, 2A
Power Supply
→ p. 111

Accessories



NIR-2
Call Reset
Button
→ p. 101



NIR-4
Single Room
Corridor Call Light
→ p. 101



NIR-4S
Multi-Room
Corridor Call Light
→ p. 101



NIR-4BZ
Corridor Light with
Tone Indicator
→ p. 101



NIR-42
Corridor Light with
Call Reset Button
→ p. 101



NIR-31
Corridor Light with 1
Magnetic Nameplate
→ p. 101



NIR-32
Corridor Light with 2
Magnetic Nameplates
→ p. 101



NIR-34
Corridor Light with 4
Magnetic Nameplates
→ p. 101



NIR-7HW
Bathroom
Call Button
with Pull Cord
→ p. 101



NIR-7W
Bathroom
Call Button
→ p. 101



NI-SOFT
Call Event Log
PC Software
(includes RS-232 cable, approx. 40")
→ p. 101



IER-2
Call Extension
Speaker
→ p. 105



SBX-2G/A
Surface Mount
Box for NI-JA
→ p. 106



RY-ES
External
Signaling Relay
→ p. 110

Dimensions

	INCHES				MILLIMETERS			
	Height	Width	Depth	Diameter	Height	Width	Depth	Diameter
NI-BA	5-7/8"	5-1/8"	1-5/16"	-	150	130	33	-
NI-JA	4-3/4"	4-3/4"	*	-	120	120	*	-
NI-LB	-	-	**	7-1/16"	-	-	**	180
NIM-20B	9-1/16"	13"	5-1/2"	-	230	330	140	-
NIM-40B	9-1/16"	18-7/8"	5-1/2"	-	230	480	140	-
NIR-1, NIR-2, NIR-4, NIR-4S, NIR-6, NIR-7BS, NIR-7HW, NIR-7W, NIR-HP, NIR-MB	4-3/4"	2-3/4"	*	-	120	70	*	-
NIR-31, NIR-32	5-11/16"	7-1/2"	1-9/16"	-	144	190	40	-
NIR-34	5-11/16"	12-1/16"	1-9/16"	-	144	306	40	-
NIR-42, NIR-4BZ, NIR-HPF	4-3/4"	4-9/16"	*	-	120	116	*	-
NIR-8	3-3/4"	-	-	1-7/16"	95	-	-	36
NI-RC	6-3/4"	2-3/16"	1-1/8"	-	171.5	56	28	-
NI-SB	-	-	**	4-1/8"	-	-	**	105

*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.
**NI-LB has a 9/16" depth projection from the surface and NI-SB has a 3/16" depth projection from the surface.

Components


CALLING
01-2180
CALL PLACED
CALL ANSWERED
CALL
EMERGENCY
215 - East Path Tower

AT-406 Series Components

Audio Master & Sub Stations



AT-206
White Audio Master Station
(not sold separately)
- Handset for privacy



AT-306
White Audio Sub Station
- Handset for privacy



AT-206B
Charcoal Gray Audio Master Station
(not sold separately)
- Handset for privacy
- 4' coil cord
- Designed for use in limos, RVs, boats, and other recreational vehicles



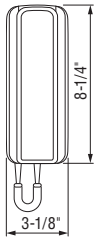
AT-306B
Charcoal Gray Audio Sub Station
(not sold separately)
- Handset for privacy
- 4' coil cord
- Designed for use in limos, RVs, boats, and other recreational vehicles

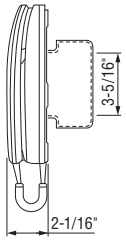
Features
- Call button on master rings all the subs
- Power supply or battery powered
- Sub(s) ring master only

Specifications

Power Source	6V DC — use SKK-620C or 4 AA batteries
Communication	Handset (full-duplex)
Wire Type	Master Station to Sub Station: 2-cond., overall shield — use Aiphone #822202
Distance	2-Station Set: 2,300' (22 AWG) 5,250' (18 AWG)
	Master Station to 3rd Sub Station: 1,350' (22 AWG) 3,100' (18 AWG)

AT-206, AT-206B, AT-306, AT-306B





AX Series Components

Central Exchange Units



AX-084C
Central Exchange Unit
- Supports up to 4 master stations and 8 door/sub stations



AX-248C
Central Exchange Unit
- Supports up to 8 master stations and 24 door/subs stations

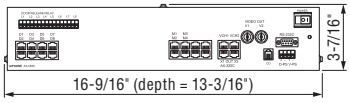


AX-320C
Add-On Central Exchange Unit
- Supports up to 32 door/sub stations

Features
- Wiring hub for AX system using Cat-5e
- Two 24V DC power supply input terminals
- Rack mountable

Features (additional for AX-084C, AX-248C)
- Controls all functionality of AX system
- Two BNC composite video outputs and video switching triggers
- CO line transfer (requires Viking K-1900-5 programmable auto-dialer)
- Programmable functionality via supplied software

AX-084C, AX-248C, AX-320C



Specifications

Power Source	24V DC — use two PS-2420ULs
Consumption	Video: 0.62A max. Audio: 0.65A max.
CO Line Port	RJ11 for Viking K-1900-5 programmable auto-dialer
Door Release	Programmable dry contact, 24V AC/DC, 500mA — use EL-12S (use RY-1824L for larger contact rating)
Mounting	19" EIA rack (2U) or wall mount
Wire Type	Between Door/Sub Station, Master Station, and Central Exchange Unit: Cat-5e
	Power Supply to Central Exchange Unit and Add-On Central Exchange Unit: 2-cond., overall shield — use Aiphone 821802
Distance	Door/Sub Station to Central Exchange Unit and Add-On Central Exchange Unit: 980'
	Central Exchange Unit to Master: 980'
	Central Exchange Unit to Add-On Central Exchange Unit: 16'
	Power Supply to Central Exchange Unit and Add-On Central Exchange Unit: 16' (22 AWG) 33' (18 AWG)

Master Stations & Add-On Selector



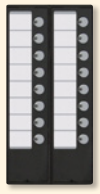
AX-8MV
Video Master Station
- 3-1/2" LCD screen
- Wall or desk mount



AX-8MV-W
Video Master Station
(recommended for an 8 x 8 system only)
- 3-1/2" LCD screen
- White finish
- Wall or desk mount



AX-8M
Audio Master Station
- Wall or desk mount



AX-16SW
16-Call Add-On Selector for AX-8MV or AX-8M
(max. 7 per master)

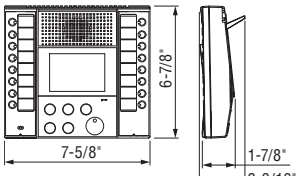
Features (AX-8MV, AX-8MV-W, AX-8M)
- Hands-free or push-to-talk communication
- Two talk channels
- Composite video output from CEU/video master stations
- All Call or Group Call to master stations
- Scan monitoring

Features (AX-16SW)
- Provides ability to select/call 16 additional door stations
- Aesthetically matches AX-8M or AX-8MV

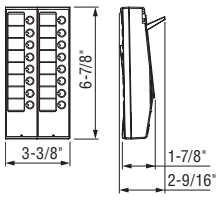
Specifications (AX-8MV, AX-8MV-W, AX-8M)

Power Source	Supplied by Central Exchange Unit
Communication	Hands-free (VOX) or push-to-talk (simplex)
Video Display	AX-8MV, AX-8MV-W: 3-1/2" LCD screen
	AX-8M: N/A
Door Release	Programmable dry contact, 24V AC/DC, 500mA — use EL-12S (use RY-1824L for larger contact rating)
Mounting	Surface mount directly to wall or desk mount — use MCW-S/A for an adjustable desk angle
Wire Type	Between Door/Sub Station, Master Station, and Central Exchange Unit: Cat-5e
Distance	Central Exchange Unit to Master Station: 980'

AX-8M, AX-8MV, AX-8MV-W



AX-16SW



Specifications (AX-16SW)

Power Source	Supplied by Master Station
Calling Capacity	16 door/sub stations
Unit Capacity	Max. 7 for up to 112 additional door/sub stations (max. 120 door/sub stations per system)
Mounting	Mounts directly to Master Station or other AX-16SW with supplied brackets
Wire Type	Add-On Selector to Master Station: Ribbon cable (included with AX-16SW)

Video Door Stations



AX-DV
Video Door Station
- Fixed camera
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount



AX-DV-P*
Card Access Video Door Station
- HID® ProxPoint® Plus Proximity Card Reader
- Fixed camera
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount



AX-DVF
Video Door Station
- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



AX-DVF-P*
Card Access Video Door Station
- HID® ProxPoint® Plus Proximity Card Reader
- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



Surface mount boxes available for flush mount stations! See p. 106

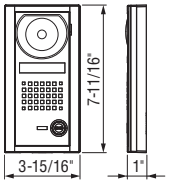
* *HID® stations require a 3rd party host. Power for card reader and door strike require additional wire.*

Features
- Cat-5e wired to central exchange unit (980' max)
- Polycarbonate lens cover
- Fixed camera provides clear video
- LED illumination automatically turns on in low light conditions
- Embedded HID® ProxPoint® Plus card reader (AX-DV-P, AX-DVF-P)

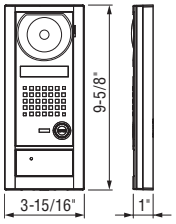
Specifications

Power Source	Supplied by Central Exchange Unit
Communication	Hands-free
Camera	Type: 1/4" CCD
	Area View: 2' 1" vertical x 3' 1" horizontal at 20"
Temp. Rating	14°~140°F (-10°~60°C)
Material	AX-DV, AX-DV-P: aluminum die cast
	AX-DVF, AX-DVF-P: stainless steel
Mounting	AX-DV, AX-DV-P: surface mount directly to wall
	AX-DVF: flush mount with included back box or surface mount with SBX-AXDVF
	AX-DVF-P: flush mount with included back box or surface mount with SBX-DVF-P
Wire Type	Door Station to Central Exchange Unit: Cat-5e
Distance	Door Station to Central Exchange Unit: 980'

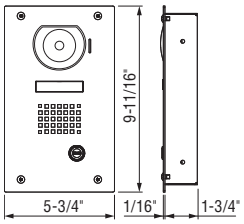
AX-DV



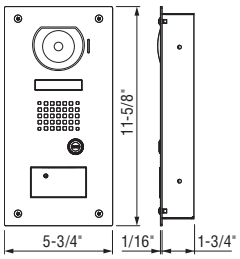
AX-DV-P



AX-DVF



AX-DVF-P



Audio Door Stations



AX-DM
Audio Door Station
- Plastic chassis
- Weather resistant
- Mullion surface mount



IF-DA
→ p. 73



IE-JA
→ p. 73



IE-SS/A
→ p. 73



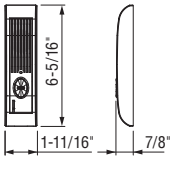
IE-SSR
→ p. 73

Features (AX-DM)
- Mullion mounted door station
- Constructed with sturdy ABS plastic
- Weather resistant
- Can be used with AX Series, IE-8 Series, KB Series, or TD-H Series

Specifications (AX-DM)

Power Source	Supplied by Central Exchange Unit
Communication	Hands-free
Temp. Rating	14°~140°F (-10°~60°C)
Material	ABS plastic
Mounting	Surface mount directly to wall or mullion
Wire Type	Door Station to Central Exchange Unit: Cat-5e or 2-cond.
Distance	Door Station to Central Exchange Unit: 980'

AX-DM



Features (IF-DA, IE-JA, IE-SS/A, IE-SSR)
See p. 73

Specifications (IF-DA, IE-JA, IE-SS/A, IE-SSR)
See p. 73

AX Series Components (continued)

Audio Sub Stations



AX-A
Audio Sub Station
- Surface mount



AX-AN
Privacy Audio Sub Station
- Privacy button
- Surface mount



AX-B
Audio Sub Station
- Semi-flush mount



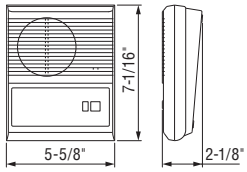
AX-BN
Privacy Audio Sub Station
- Privacy button
- Semi-flush mount

Features
- Hands-free communication when master answers
- Constructed with sturdy ABS plastic
- Desk or wall mount (AX-A, AX-AN)
- Mounts directly to wall or 1-gang box (AX-A, AX-AN)
- Privacy feature blocks unwanted monitoring from master (AX-AN, AX-BN)

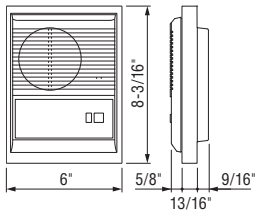
Specifications

Power Source	Supplied by Central Exchange Unit
Communication	Hands-free
Material	ABS plastic
Mounting	AX-A, AX-AN: surface mount directly to wall AX-B, AX-BN: semi-flush mount
Wire Type	Sub Station to Central Exchange Unit: Cat-5e or 2-cond.
Distance	Sub Station to Central Exchange Unit: 980'

AX-A, AX-AN



AX-B, AX-BN



Transmission & Reception Interface Units



AXW-AVT
Audio / Video Transmitter



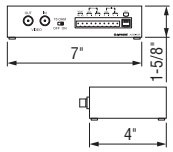
AXW-AVR
Audio / Video Receiver

Features
- Interfaces AX video door station with 3rd party alternate transmission methods for longer distances

Specifications

Power Source	AXW-AVT: 24V DC, 500mA — use PS-2420UL AXW-AVR: supplied by Central Exchange Unit
Video In & Out	Composite 1Vpp, NTSC
Video Connectors	BNC
Relay	N/O contact output, 30V DC, 1A
Sensor	N/C contact input
Wire Type	Cat-5e, 24AWG UTP-4
Distance	AXW-AVT to Door Station (cumulative): max. 980' using Cat-5e AXW-AVR to Central Exchange Unit (cumulative): max. 980' using Cat-5e AXW-AVT or AXW-AVR to 3rd party devices: do not exceed 16'

AXW-AVR, AXW-AVT



For a list of approved devices, visit **www.aiphone.com/ax** to download the AXW-AVT(R) instructions or contact Aiphone Technical Support at **(800) 692-0200 / tech@aiphone.com**

CCTV Input Module



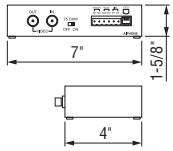
AXW-AZ
CCTV Input Module

Features
- Allows CCTV camera to be viewed on Aiphone video master station(s)
- Standard motion detector used to auto-activate camera
- Audio door station can be used for communication to camera location
- Relay output to trigger external device when CCTV camera is activated
- Video output for connection to standard CCTV monitor or recorder for full time video signal
- Sensor input to trigger CCTV automatically
- Video output allows constant viewing of CCTV Camera

Specifications

Power Source	Supplied by Central Exchange Unit
Video In/Out	75Ω composite video, 1V p-p
Video Connector	BNC
Video Monitoring	30 sec., controlled by Master Station
Camera Activation	N/C sensor input, or by Master Station
Wire Type	Cat-5e
Distance	Input Module to Central Exchange Unit: 980'

AXW-AZ



Paging Adaptor



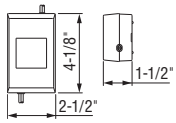
AXW-PA1
Paging Adaptor for AX Series

Features
- Page from an intercom master station out to a PA system to make announcements or to locate a person
- Takes the place of a separate microphone for paging where there is an intercom
- School uses: page hallways, playground areas, cafeteria, etc.
- Medical facilities and / or office uses: page waiting areas, hallways, break rooms, etc.

Specifications

Power Source	Supplied by Master Station or Central Exchange Unit
Input	Direct Central Exchange Unit connection
Output	600Ω
Output to Adaptor	0dB and -20dB, selectable
Requirements	AUX input (10kΩ) or 100mV for rated output
Wire Type	2-cond., overall shield — use Aiphone #822202

AXW-PA1



CCS-1A Set Components

Audio Master Station



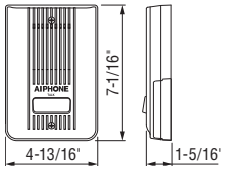
CC-1M
Audio Master Station
(not sold separately)
- Chime and voice volume controls

Features
- Chime and voice volume controls

Specifications

Power Source	12 – 16V AC (with no-load voltage rating, 20V or less) — use PT-1210NA
Communication	Push-to-talk (simplex)
Door Release	N/A
Mounting	Surface mount directly to wall
Wire Type	Door Station to Master Station: 2-cond., overall shield — use Aiphone #822202 or #821802
Distance	Door Station to Master Station: 245' (22 AWG) 590' (18 AWG)

CC-1M



Audio Door Station



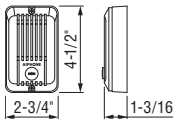
CC-DA
Audio Door Station
(not sold separately)
- Plastic chassis
- Weather resistant
- Surface mount

Features
- Backlit call button

Specifications

Power Source	Supplied by Master Station
Communication	Push-to-talk (simplex)
Material	Fire resistant ABS plastic
Mounting	Surface mount directly to wall
Wire Type	Door Station to Master Station: 2-cond., overall shield — use Aiphone #822202 or #821802
Distance	Door Station to Master Station: 245' (22 AWG) 590' (18 AWG)

CC-DA



C-123L/A & C-123LW Sets Components

Audio Master Station



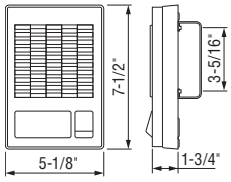
C-ML/A
Audio Master Station
(includes DAK-2S dual master adaptor kit)
- Surface mount

Features
- Adjustable communication volume
- Batteries or 6V DC power supply (1 per master)
- Automatically turns off in 20 seconds

Specifications

Power Source	6V DC — use SKK-620C or 4 C Batteries
Consumption	85mA
Output	100mW
Communication	Push-to-talk (simplex)
Door Release	N/O dry contact, 50V AC, 1A — use EL-12S
Mounting	Surface mount directly to wall
Wire Type	Door Station to Master Station: 2-cond., overall shield — use Aiphone #822202 or #821802
Distance	Door Station to farthest Master Station: 245' (22 AWG) 590' (18 AWG)

C-ML/A



Audio Door Station



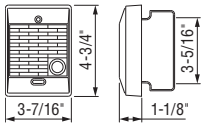
C-D
Audio Door Station
(not sold separately)
- Plastic chassis
- Weather resistant
- Surface mount

Features
- Can be replaced with any LE or LS Series door station
- Physically identical to LE-D

Specifications

Power Source	Supplied by Master Station
Communication	Push-to-talk (simplex)
Temp. Rating	14°~140°F (-10°~60°C)
Material	Fire resistant ABS plastic
Mounting	Surface mount directly to wall
Wire Type	Door Station to Master Station: 2-cond., overall shield — use Aiphone #822202 or #821802
Distance	Door Station to farthest Master Station: 245' (22 AWG) 590' (18 AWG)

C-D



Dual Master Adaptor Kit



DAK-2S
→ p. 110

Features
See p. 110

Specifications
See p. 110

DA Series Components

Audio Tenant Station



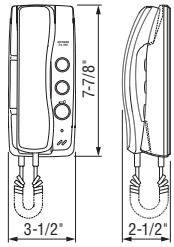
DA-1MD
Audio Tenant Station
(included with DA-1AS box set)
- Handset for privacy

Features
- Handset for privacy
- Service button to control an external device
- Call tone volume control with mute indicator
- Door release button (powered by door station)

Specifications

Power Source	15V AC — use PT-1211CA
Communication	Handset (full-duplex)
Wire Type	Entrance Station to Tenant Station: 2-cond., overall shield — use Aiphone #822202 or 2-cond., low cap, PE insulation, solid, non-shielded — use Aiphone #871802
	Power Supply to Tenant Station: 2-cond., low cap, PE insulation, solid, non-shielded — use Aiphone #871802
Distance	Power Supply to Tenant Station: 180' (22 AWG) 510' (18 AWG)
	Entrance Station to Power Supply (cumulative): 360' (22 AWG) 1,020' (18 AWG)

DA-1MD



Entrance Stations



DA-1DS



DA-2DS



DA-4DS

Features
See below

Specifications
See below

DB Series Components

Audio Tenant Stations



DB-1MD
Audio Hands-Free
Tenant Master Station
(included with DBS-1A box set)



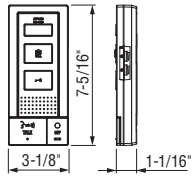
DB-1SD
Audio Hands-Free
Tenant Sub Station

Features
- All Call between stations in same residence/office
- Option button for external device control (N/O dry contact, AC/DC 24V 1.6A Max)
- Call tone volume control with LED mute indicator
- Receive volume control
- Optional Call Extension Speaker (IER-2)
- Optional external signaling to 3rd party bell or light using RY-ES (used in lieu of IER-2)
- Door release button (powered by door station)

Specifications

Power Source	15V AC — use PT-1211CA (requires 1 per tenant master station and 1 per 2 tenant sub stations)
Communication	Hands-free (VOX) or push-to-talk (simplex)
Wire Type	Entrance Station to Tenant Master Station: 2-cond., low cap, PE insulation, solid, non-shielded — use Aiphone #871802
	Tenant Master Station to Tenant Sub Station: 4-cond., low cap, PE insulation, solid, non-shielded — use Aiphone #871804
	Between Tenant Sub Stations: 4-cond. + 2-cond. when sharing power - use Aiphone #822206 or #871804
Distance	Power Supply to Tenant Master Station: 180' (22 AWG) 510' (18 AWG)
	Tenant Master Station to farthest Tenant Sub Station: 330'
	Power Supply to Entrance Station (cumulative): 360' (22 AWG) 1,020' (18 AWG)

DB-1MD



Entrance Stations



DA-1DS
1-Call Audio
Entrance Station
(included with both DA-1AS and DBS-1A box sets)
- Direct select button
- Backlit directory
- Weather resistant



DA-2DS
2-Call Audio
Entrance Station
- Direct select buttons
- Backlit directory
- Weather resistant



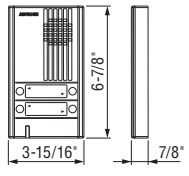
DA-4DS
4-Call Audio
Entrance Station
- Direct select buttons
- Backlit directory
- Weather resistant

Features
- Door release powered by door station without the need of an additional transformer or wiring

Specifications

Power Source	Supplied by Tenant Station
Communication	Hands-free
Door Release	9.5–20V AC, 70Ω or higher resistance — use EL-12S
Temp. Rating	14°~140°F (-10°~60°C)
Material	Aluminum cover
Mounting	Surface mount directly to wall
Wire Type	Entrance Station to Tenant Station: 2-cond., overall shield — use Aiphone #822202 or 2-cond., low cap, PE insulation, solid, non-shielded — use Aiphone #871802
Distance	Power Supply to Entrance Station (cumulative): 360' (22 AWG) 1,020' (18 AWG)

DA-1DS, DA-2DS, DA-4DS



GT Series Components

Entrance Stations

Ready-to-Install Single Panel



GT-DMB-N
3-in-1 Video Entrance Station

- Tenant directory programming with NFC
- PTZ camera with 170° angle view
- Hands-free communication
- Access control and tenant directory scroll keypad
- Motion activated 3-1/2" LCD screen can display a customized greeting, operation instructions, or standby image
- Voice annunciation
- Stainless steel panel
- Weather and vandal resistant

GT-DMBN-SSP
3-in-1 Video Entrance Station

- Same features as GT-DMB-N, plus:
- Designed to mount into Pedestal Pro Model #64TOW-AIP-001-304

NEW



Pedestal Pro Model #64TOW-AIP-001-304
(available at www.pedestalpro.com)

Ready-to-Assemble Modular Kits



GTV-DES104B
Modular Video Entrance Station Kit
(includes GT-DB+GT-DBP, GT-VB+GT-VP, GT-NSB+GT-NSP-L, GT-10K+GF-10KP, GT-4B+GT-4F, and GT Operation Plate)

- Modular components
- Configuration can be customized
- Digital scroll buttons



GTV-DES202B
Modular Video Entrance Station Kit
(includes GT-DB+GT-DBP, GT-VB+GT-VP, GT-NSB+GT-NSP-L, GT-10K+GF-10KP, GF-2B+GF-2F x2, and GT Operation Plate)

- Modular components
- Configuration can be customized
- Digital scroll buttons



GTA-DESB
Modular Audio Entrance Station Kit
(includes GT-DB+GT-DBP, GT-NSB+GT-NSP-L, GT-10K+GF-10KP, GF-3B+GF-3F, and GT Operation Plate)

- Modular components
- Configuration can be customized
- Digital scroll buttons

NOTE: *To build custom entrance stations, see modular components and mounting accessories p. 71–72*

Features

- Wide angle camera allows user to view up to 170° of the entry area (GT-DMB-N, GTV-DES104B, GTV-DES202B)
- Direct digit dialing, alphabetical scrolling, or "jump" scrolling by letter to select tenant name
- Digital panel stores up to 500 tenant names/number locations and 500 unique access codes to activate door release
- Voice annunciation in English, French, German, Spanish, Dutch, and Italian
- Alpha-numeric room numbers and/or names can be programmed
- Scrolling welcome message, up to 160 characters, adjustable scroll speed
- VFD (vacuum fluorescent display) displays calling unit name and number (GTA-DESB, GTV-DES104B, GTV-DES202B)
- Hands-free communication

Features
(additional for GT-DMB-N, GT-DMBN-SSP)

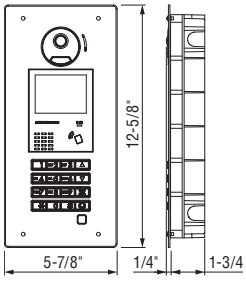
- PC configuration via USB or NFC
- LCD screen with energy conservation mode activated by built-in motion sensor

For descritpion and technical details of Pedestal Pro Model #64TOW-AIP-001-304, visit www.pedestalpro.com

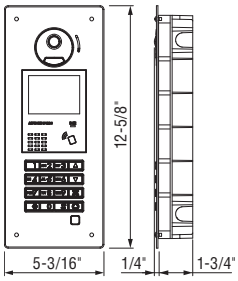
Specifications

Power Source	24V DC — use specified number of PS-2420ULs per system configuration
Communication	Hands-free (VOX)
Camera	Type: 1/4" CMOS (not GTA-DESB) View Area: 100° vertical x 170° horizontal (not GTA-DESB)
Door Release	Form C dry contact, 24V AC/DC, 4A
Temp. Rating	14°~140°F (-10°~60°C)
Material	GT-DMB-N: stainless steel GTA-DESB, GTV-DES104B, GTV-DES202B: zinc die cast
Mounting	GT-DMB-N: flush mount with GF-3B (sold separately) or surface mount with SBX-GTDMB (sold separately) GT-DMBN-SSP: flush mount with Pedestal Pro Model #64TOW-AIP-001-304 (sold separately at www.pedestalpro.com) GTA-DESB, GTV-DES104B, GTV-DES202B: semi-flush mount with GF-3B (included), semi-flush mount with GT-nH (sold separately), or surface mount with GT-nHB (sold separately)
Wire Type	2-cond., solid, non-shielded, PE insulation — use Aiphone #872002 for audio and #871802 for video and power
Distance	Variable wiring distances – see table on p. 70

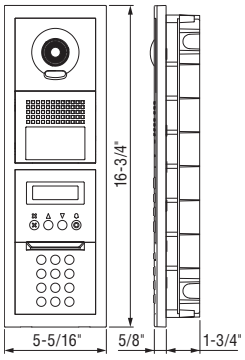
GT-DMB-N



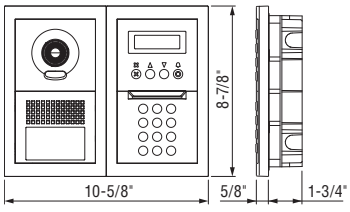
GT-DMBN-SSP



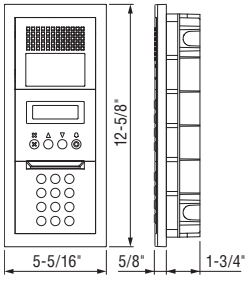
GTV-DES104B



GTV-DES202B



GTA-DESB



Components

GT Series Components (continued)

Video Guard Station



GT-MKB-N
Video Guard Station
- 3-1/2" LCD screen
- Tenant directory programming with NFC
- Hands-free communication with handset for privacy
- Includes desk stand
- Compatible with JO-DV for single-door video entry



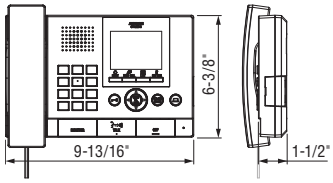
JO-DV
Video Door Station
(1 per GT-MKB-N for single-door video entry)
→ p. 91

Features
- For audio or video systems
- Video identification and monitoring
- Calls entrance or tenant stations
- Reception Mode intercepts visitor calls for screening by guard or concierge
- Door release
- PC configuration via USB or NFC

Specifications

Power Source	24V DC — use PS-2420UL
Communication	Handset
Video Display	3-1/2" LCD screen
Temp. Rating	32°~104°F (0°~40°C)
Mounting	Wall or desk mount (stand included)
Wire Type	2-cond., solid, non-shielded, PE insulation — use Aiphone #872002 for audio and #871802 for video and power

GT-MKB-N



Audio Tenant Door Station



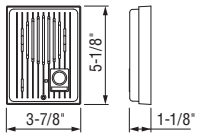
GT-D
Audio Tenant Door Station
(1 per GT-2C for single-door audio entry)

Features
- Compatible with GT-2C video tenant master station
- Provides additional access control at individual tenant doorways
- Calls tenant's personal master and sub master stations simultaneously
- Hands-free communication

Specifications

Power Source	Supplied by GT-2C
Communication	Hands-free (VOX)
Temp. Rating	14°~140°F (-10°~60°C)
Material	Plastic
Mounting	Surface mount
Wire Type	2-cond., low cap, PE, solid, non-shielded — use Aiphone #871802
Distance	Variable wiring distances – see table on p. 70

GT-D



Video Tenant Master & Sub Master Stations



GT-2C
Video Tenant Master Station
- 3-1/2" LCD screen
- Hands-free communication
- Picture Memory
- Compatible with the GT-D audio tenant door station



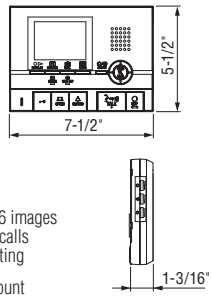
GT-2H
Video Tenant Sub Master Station
- 3-1/2" LCD screen
- Hands-free communication

Features
- Video identification and monitoring with 3-1/2" screen
- Hands-free or push-to-talk communication
- Internal Picture Memory (GT-2C)
- Door release, video guard station call, and optional service buttons
- PTZ, brightness, call tone, and communication volume control
- Simple station programming via dip switch setting
- Security inputs for alerting tenant and guard
- Input for GT-D audio tenant door station
- Internal communication with up to 3 GT-2H sub master stations
- Missed call from guard notification
- 6 language menu

Specifications

Power Source	GT-2C: 24V DC — use PS-2420UL GT-2H: supplied by GT-2C
Communication	Hands-free (VOX) or push-to-talk (simplex)
Video Display	3-1/2" LCD screen
Picture Memory	Record max. 40 calls (6 images per call) with up to 10 calls protected from overwriting
Mounting	Wall mount or desk mount with MCW-S/A
Wire Type	2-cond., solid, non-shielded, PE insulation — use Aiphone #872002 for audio and #871802 for video and power
Distance	Variable wiring distances - see table on p. 70

GT-2C, GT-2H



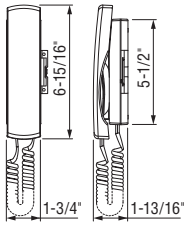
Optional Add-On Handset



GT-HSA
Optional Add-On Handset for GT-2C or GT-2H

Features
- Handset for privacy
- Easy to attach and remove
- Compatible with GT-2C or GT-2H

GT-HSA



GT Series Components (continued)

Video & Audio Tenant Stations



GT-1C7
Video Tenant Station
- 7" LCD screen
- Hands-free communication



GT-1M3
Video Tenant Station
- 3-1/2" LCD screen
- Hands-free communication



GT-1A
Audio Tenant Station
- Hands-free communication



GT-1D
Audio Tenant Station
- Handset for privacy

Features (GT-1C7, GT-1M3, GT-1A)
- Hands-free or push-to-talk communication
- Door release, video guard station call, and optional service buttons
- Call tone and communication volume control

Features (additional for GT-1M3, GT-1C7)
- Simple station programming via dip switch setting

Features (additional for GT-1M3)
- Video identification and monitoring with 3-1/2" screen

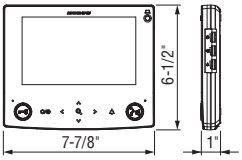
Features (additional for GT-1C7)
- Video identification and monitoring with 7" screen
- PTZ and brightness control

Features (GT-1D)
- Handset communication for privacy
- Door release and video guard station call buttons
- Call tone volume control

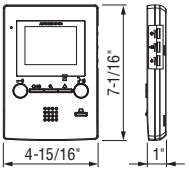
Specifications

Power Source	24V DC – supplied by GT-BC or GT-VBC
Communication	GT-1C7, GT-1M3, GT-1A: hands-free (VOX) or push-to-talk (simplex) GT-1D: handset
Video Display	GT-1C7: 7" LCD screen GT-1M3: 3-1/2" LCD screen GT-1A, GT-1D: N/A
Mounting	GT-1C7, GT-1M3, GT-1A: wall mount or desk mount with MCW-S/A GT-1D: wall mount
Wire Type	2-cond., solid, non-shielded, PE insulation — use Aiphone #872002 for audio and #871802 for video (GT-1A or GT-1D do not need video wire)
Distance	Variable wiring distances – see table below

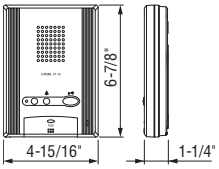
GT-1C7



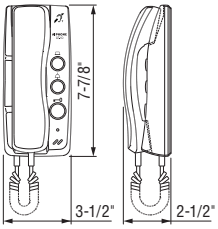
GT-1M3



GT-1A



GT-1D



Mobile App Network Adaptor



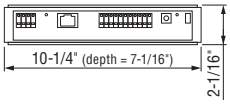
GT-TLI-IP
Mobile App Network Adaptor
(includes power supply)

Features
- Provides ability to answer calls and unlock doors with GT Series smartphone app
- Up to 3 mobile apps per adaptor

Specifications

Power Source	12V DC, 500mA (power supply is included with adaptor)
Standards	EN60950, EN55032 Edition 2015 Class B, EN55024 Edition 2015 Class B, FCC Part 15 Subpart B

GT-TLI-IP



Adaptors & Control Units



GTW-VOA
Video Output Adaptor



GT-MCX
Network Adaptor
(includes mounting rail)



GT-1Z
1-Way Video Distribution Adaptor



GT-BC
Audio Bus Control Unit



GT-VBC
Video Bus Control Unit



GT-BCXB-N
Expanded Bus Control Unit
(includes mounting rail)



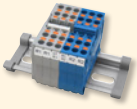
GT-VBX
Expanded Video Bus Control Unit
(includes mounting rail)



GT-4Z
4-Way Video Distribution Adaptor



GTW-LC
Multi-Relay Control Unit
(for use with GT Series Expanded System only and requires GT-BCXB-N – includes mounting rail)

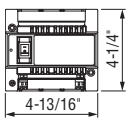


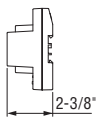
GTW-DP
Distribution Point Adaptor
(includes mounting rail)

Specifications

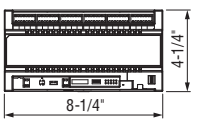
Power Source	GT-BC, GT-VBC, GT-BCXB-N, GT-MCX: 24V DC — use PS-2420UL GT-VBX: supplied by GT-BCXB-N GTW-LC: supplied by GT-BC GT-1Z, GT-4Z: power not required GTW-VOA: supplied by GT-VBC
Mounting	DIN rail (equipped with large units) — use W-DIN11 for small units
Wire Type	2-cond., solid, non-shielded, PE insulation — use Aiphone #872002 for audio and #871802 for video and power
Distance	Variable wiring distances – see table below

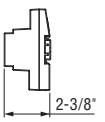
GT-4Z, GT-BC, GT-VBC, GTW-VOA



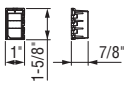


GT-BCXB-N, GT-MCX, GT-VBX, GTW-LC





GT-1Z



GT Wiring Distances	22 AWG	20 AWG	18 AWG
GT-BC to Distribution Point	10'	16'	16'
GTW-DP to Entrance Station	490'	980'	980'
GTW-DP to GT-MKB-N	490'	980'	980'
GTW-DP to farthest Tenant Station	490'	980'	980'
GT-VBC to farthest Tenant Station	330'	490'	490'
GT-VBC (standard) to GT-VBC (expanded)	330'	490'	490'
GT-BC or GT-VBC to Power Supply	10'	16'	16'
GT-NSB or GT-AC to Power Supply	980'	980'	980'
GT-MKB-N to Power Supply	490'	980'	980'
Total cumulative wiring per common line (max. 2) and per sub trunk line (max. 4)	5,400'	8,200'	8,200'

GT Series Components (continued)

External Signaling Relay

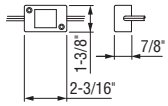


GT-RY
External
Signaling Relay

Features
- N/O contact output
- Provides relay for entrance light control or an additional buzzer at residence

Specifications
Power Source 24V DC – supplied by station
Contact Rating 24V AC/DC, 500mA

GT-RY



Urgent Call Pull Cord

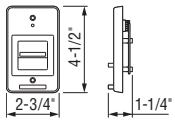


GFK-PS
Urgent Call
Pull Cord

Features
- Latching call switch
- Suitable for bathrooms and high-moisture areas
- Durable 7' nylon pull cord with pendant
- Easily resets by pushing back up
- Flush mount with standard 1-gang box

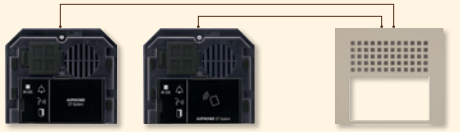
Specifications
Contact Rating N/C 24V DC, 500mA

GFK-PS



Modular Components for Custom Entrance Stations

Audio Module & Panel (required for custom entrance stations)



GT-DB
Audio
Module

GT-DB-VN
Audio Module with
NFC Programming
- Quickly update tenant directory with NFC-equipped device

GT-DBP
Panel for GT-DB
or GT-DB-VN

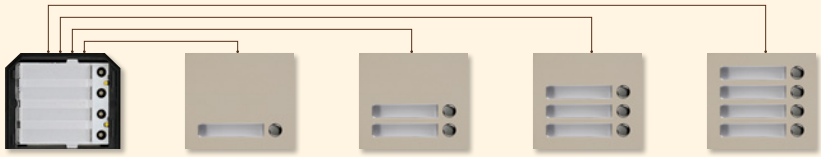
Video Module & Panel



GT-VB
Video Module
with PTZ Camera
- 170° horizontal wide angle view

GT-VP
Camera Panel
for GT-VB

Direct Select Module & Panels



GT-SW
Call Switch
Module

GF-1P
1-Call Panel
for GT-SW

GF-2P
2-Call Panel
for GT-SW

GF-3P
3-Call Panel
for GT-SW

GF-4P
4-Call Panel
for GT-SW

Digital Scroll Modules & Panels



GT-NSB
Display
Module

GT-NSP-L
Panel for
GT-NSB

GT-10K
Keypad
Module

GF-10KP
Panel for
GT-10K

Other Optional Modules, Panels, & Operation Plate



GT-AD
Address
Module

GF-AP
Address Panel
for GT-AD

GF-BP
Blank Panel
(can be used as a placeholder)

GT-AC
Access Control
Keypad Module

GT-HID*
ProxPoint Plus®
Embedded
HID® Card
Reader Module



GT Operation Plate
Instruction Plate for GT Digital Display Entrance Stations
(top or bottom mount – included with GTA-DESB, GTV-DES202B, and GTV-DES104B)

* *HID® stations require a 3rd party host. Power for card reader and door strike require additional wire.*

Specifications

Power Source GT-10K, GT-AD, GT-DB, GT-DB-VN, GT-SW, GT-VB: supplied by system
GT-AC, GT-NSB: PS-2420UL

Door Release GT-DB, GT-DB-VN: Form C dry contact, 24V AC/DC, 4A

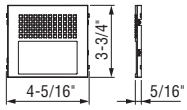
Temp. Rating 14°~140°F (-10°~60°C)

Material Panels: zinc die cast
Modules: fire resistant ABS plastic

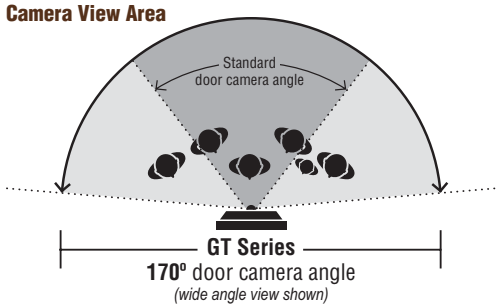
Wire Type 2-cond., solid, non-shielded, PE insulation — use Aiphone #872002 for audio and #871802 for video and for power to GT-AC

Distance Variable wiring distances – see table on p. 70

All GT & GF Panels



Camera View Area



Mounting Accessories



SBX-GTDMB
Surface Mount Box for GT-DMB-N



GF-2B
2-Module Back Box



GF-3B
3-Module Back Box



GF-4B
4-Module Back Box



GT-202H
4-Module Rain Hood
(for 2x2 layout)



GT-203H
6-Module Rain Hood



GT-102H
2-Module Rain Hood



GT-103H
3-Module Rain Hood



GT-104H
4-Module Rain Hood
(for 1x4 layout)



GT-102HB
2-Module Hooded Surface Mount Box



GT-103HB
3-Module Hooded Surface Mount Box



GT-104HB
4-Module Hooded Surface Mount Box
(for 1x4 layout)



GT-202HB
4-Module Hooded Surface Mount Box
(for 2x2 layout)



GT-303HB
9-Module Hooded Surface Mount Box

GT-203HB
6-Module Hooded Surface Mount Box



GF-2F
2-Module Front Frame



GF-3F
3-Module Front Frame



GT-4F
4-Module Front Frame



W-DIN11
DIN Mounting Rail for Control Units

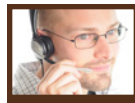
Features

- Hood provides additional weather protection
- Includes space inside for wiring
- Can mount directly to wall surface
- Openings at bottom allow for moisture drainage

Specifications

Material 16GA stainless steel

Mounting Surface mount directly to wall with included hardware (8 x 32 with T-15 Torx head)



There are many different entrance station and mounting configurations possible with the GT Series.

For additional help, contact Aiphone's Technical Support.

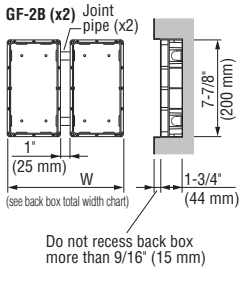
800.692.0200

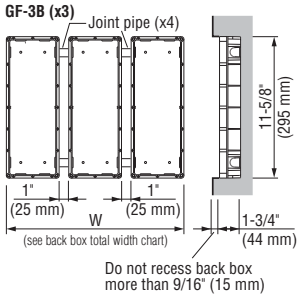
Rain Hood & Hooded Surface Mount Box Dimensions

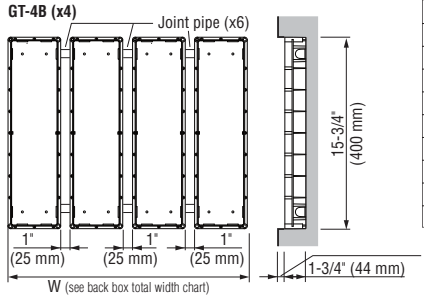
Component	Height (in / mm)	Width (in / mm)
SBX-GTDMB	12-11/16" / 323	6-1/16" / 154
GT-102H / HB	9-9/16" / 243	6-1/8" / 155
GT-202H / HB	9-9/16" / 243	11-7/16" / 290
GT-103H / HB	13-5/16" / 338	6-1/8" / 155
GT-203H / HB	13-5/16" / 338	11-7/16" / 290
GT-104H / HB	17-7/16" / 443	6-1/8" / 155
GT-303HB	13-5/16" / 338	16-3/4" / 425
GF-2F	8-7/8" / 225	5-5/16" / 135
GF-3F	12-5/8" / 320	5-5/16" / 135
GT-4F	16-3/4" / 425	5-5/16" / 135

Component	Depth (in / mm)
SBX-GTDMB	2-1/2" / 64
GT-nH	7/8" / 23
GT-nHB	2-11/16" / 68
GF/T-nF	5/8" / 16

Back Box Dimensions







Back Box Total Width

GF-2B / GF-3B / GT-4B	Width (in / mm)
1 back box	4-5/16" / 110
2 back boxes	9-5/8" / 245
3 back boxes	15" / 380
4 back boxes	20-1/4" / 515
5 back boxes	25-9/16" / 650
6 back boxes	30-7/8" / 785
7 back boxes	36-1/4" / 920
8 back boxes	41-9/16" / 1,055
9 back boxes	46-7/8" / 1,190

IE-8 Series Components

Postal Lock Modules for Custom Entrance Stations



GT-OP2
2-Module
Postal Lock

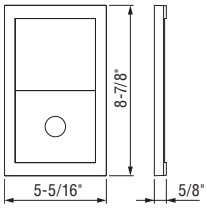


GT-OP3
3-Module
Postal Lock
(top position open for additional module)

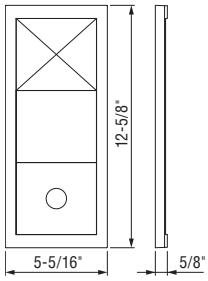
Specifications

Power Source	24V DC — use PS-2420UL
Output Rating	N/O: 5A at 30V DC, 10A at 125V DC, or 3A at 250V DC
	N/C: 3A at 30V DC or 125V AC
Mounting	GT-OP2: surface mount* or flush mount with GF-2B
	GT-OP3: surface mount* or flush mount with GF-3B
	*Surface mount box selection depends on entry panel layout
Wire Type	2-cond., non-shielded — use Aiphone #872002

GT-OP2



GT-OP3



Audio Master & Sub Master Stations



IE-8MD
6-Call Audio
Master Station
- Handset for privacy



IE-8HD
6-Call Audio
Sub Master
Station
- Handset for privacy

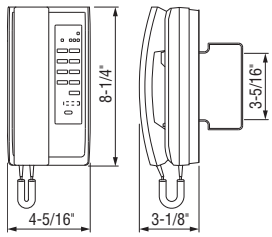
Features

- Selective Call or All Call between handsets
- Simple 4 conductor wiring between handsets

Specifications

Power Source	12–16V AC — use PT-1210NA or 12–18V DC — use PS-1225UL
Communication	Handset (full-duplex)
Door Release	N/O dry contact, 24V AC/DC, 350mA — use EL-12S
Wire Type	Door Station to Master Station: 2-cond., overall shield — use Aiphone #822202
	Master Station to Sub Stations: 4-cond., overall shield — use Aiphone #822206
Distance	Door Station to Master Station: 500' (22 AWG) 1,180' (18 AWG)
	Master Station to farthest Sub Master Station: 245' (22 AWG) 580' (18 AWG)

IE-8MD, IE-8HD



Audio Door Stations



AX-DM
Audio Door Station
- Plastic chassis
- Weather resistant
- Mullion surface mount

→ p. 64



IF-DA
Audio Door Station
- Plastic chassis
- Weather resistant
- Surface mount



IE-JA
Audio Door Station
- Stainless steel cover
- Weather resistant
- Flush mount *(fits 2-gang box)*



IE-SS/A
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*



IE-SSR
Audio Door Station
- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*



Surface mount boxes available for flush mount door stations! See p. 106

Features (All)
- Can be used with AX Series, IE-8 Series, KB Series, or TD-H Series

Features (AX-DM)
For AX-DM, see p. 64

Features (IF-DA)
- Compact surface mount design
- Mounts to 1-gang box or ring
- Locator LED beside call button

Features (IE-JA)
- Slim flush mount design with stainless steel cover
- Mounts to 2-gang box or ring
- Locator LED above call button

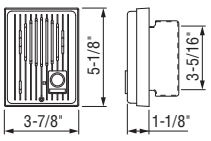
Features (IE-SS/A, IE-SSR)
- Moisture and puncture resistant speaker
- 3-layer steel baffle protects speaker from tampering
- Pigtail wires for connection to master station
- Includes tamper proof mounting screws
- Stainless steel, mechanical call button (IE-SS/A)
- Red mushroom call button (IE-SSR)

Specifications (AX-DM)
For AX-DM specifications, see p. 64

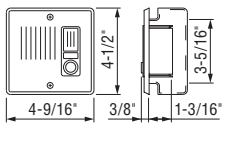
Specifications

Power Source	Supplied by Master Station
Communication	Hands-free
Temp. Rating	14°~140°F (-10°~60°C)
Material	IF-DA: ABS plastic
	IE-JA: ABS plastic with stainless steel cover
	IE-SS/A, IE-SSR: stainless steel
Mounting	IF-DA: surface mount directly to wall
	IE-JA, IE-SS/A, IE-SSR: flush mount with 2-gang box/ring or surface mount with SBX-2G/A
Wire Type	Door Station to Master Station: 2-cond., overall shield — use Aiphone #822202 or #821802
Distance	Door Station to Master Station: varies by system

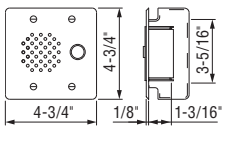
IF-DA



IE-JA

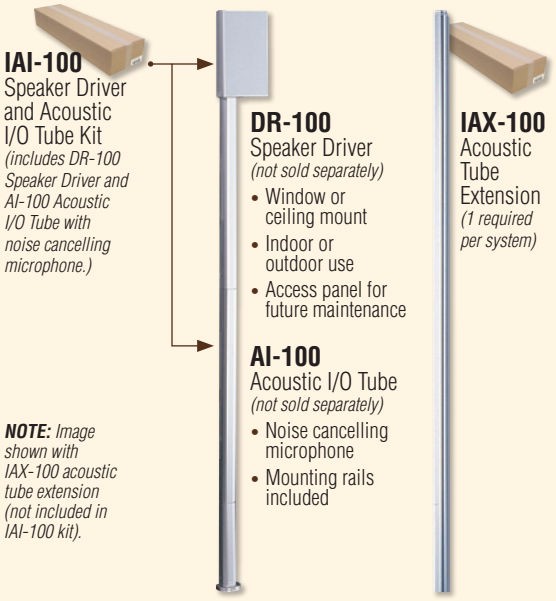


IE-SS/A, IE-SSR



IM Series Components

Speaker Driver, Acoustic I/O Tube, & Tube Extension



IAI-100
Speaker Driver and Acoustic I/O Tube Kit
(includes DR-100 Speaker Driver and AI-100 Acoustic I/O Tube with noise cancelling microphone.)

DR-100
Speaker Driver
(not sold separately)
- Window or ceiling mount
- Indoor or outdoor use
- Access panel for future maintenance

AI-100
Acoustic I/O Tube
(not sold separately)
- Noise cancelling microphone
- Mounting rails included

IAX-100
Acoustic Tube Extension
(1 required per system)

NOTE: *Image shown with IAX-100 acoustic tube extension (not included in IAI-100 kit).*

Features (DR-100)
- Driver access panel
- Speaker driver can be mounted directly to, or inside, ceiling above ticket window

Features (AI-100)
- Optimum acoustic tube location is 12" – 16" from the center of the ticket pass-through
- For smaller windows, acoustic tube may be mounted at the junction of the window and frame

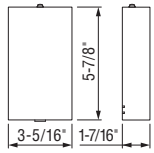
Specifications (IAI-100)

Power Source	Supplied by Control Unit
Temp. Rating	14°~140°F (-10°~60°C)
Acoustic Output	Impedance: 4Ω
	Rated Input: 4.5W
	Max. Input: 6W
Microphone	Type: condenser microphone
	Directivity: non-directional
	Input Sensitivity: -41dB
Wire Type	Speaker Driver to Control Unit: 2 x 2-cond., overall shield — use Aiphone #822202 or #821802
Distance	Speaker Driver to Control Unit: 66' (22 AWG / 18 AWG)

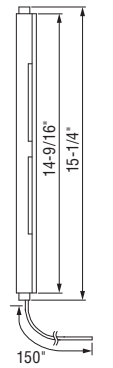
Specifications (IAX-100)

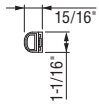
Material	Aluminum

DR-100

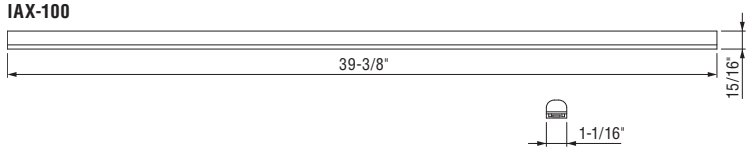


AI-100

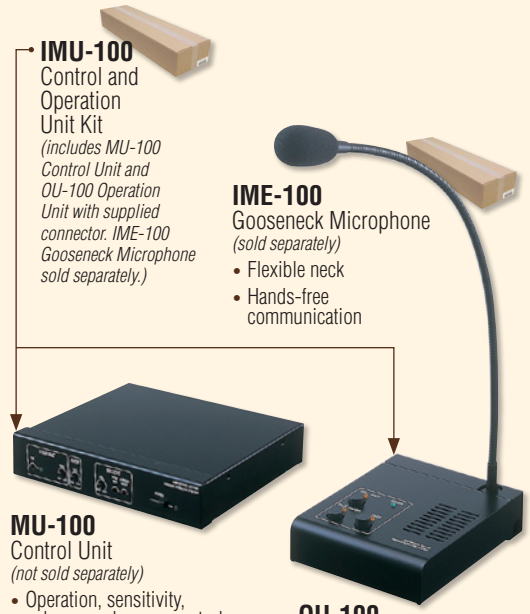




IAX-100



Control Unit, Operation Unit, & Gooseneck Mic



IMU-100
Control and Operation Unit Kit
(includes MU-100 Control Unit and OU-100 Operation Unit with supplied connector. IME-100 Gooseneck Microphone sold separately.)

IME-100
Gooseneck Microphone
(sold separately)
- Flexible neck
- Hands-free communication

MU-100
Control Unit
(not sold separately)
- Operation, sensitivity, volume, and power controls
- Rubber feet prevent slipping
- Desk mount or mount under the counter with supplied bracket

OU-100
Operation Unit
(not sold separately)
- Supplied connector
- Rubber feet prevent slipping
- Desk mount

Features (MU-100)
- VOX sensitivity adjustment
- VOX operation LED
- Transmit, speaker, receive, and standby volume control
- Ambient noise cancelling control
- Can be desk mounted or mounted under the counter with the supplied bracket

Features (OU-100)
- Volume control switch (hi / lo)
- Socket for optional gooseneck microphone
- Designed for desk mounting
- Can mount up to 6' away from the MU-100 via the supplied connector

Specifications (IMU-100)

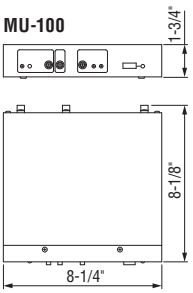
Power Source	24V DC, 120mA standby, 780mA max. — use PS-2420UL
Temp. Rating	14°~140°F (-10°~60°C)
Communication	Hands-free (VOX) or push-to-talk (simplex)
	Transmit output: 3W 4Ω
	Receive output: 1.5W 16Ω
Headset	Φ3.5mm plug
	Rated input: 40mW or more
	Max. input: 100mW or more
	Impedance: 32Ω
External Speaker	Rated input: 3W or more — use SP-2570N
	Max. input: 6W or more
	Impedance: 4 to 8Ω
Wire Type	Speaker Driver to Control Unit: 2 x 2-cond., overall shield — use Aiphone #822202 or #821802
Distance	Speaker Driver to Control Unit: 66' (22 AWG / 18 AWG)

Specifications (IME-100)

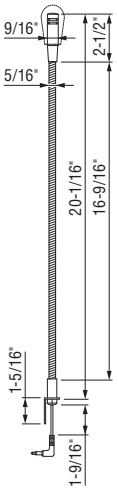
Microphone	Condenser microphone, unidirectional
Input Sensitivity	-46dB

NOTE: *Compatible ceiling speaker is located in the Paging Accessories section (p. 109)*

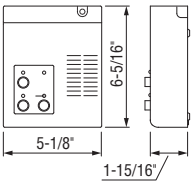
MU-100



IME-100



OU-100



Optional Microphone & Sensor



ISE-100
Proximity Sensor

IME-150
Optional Microphone

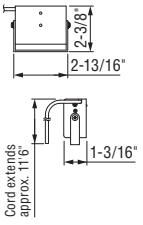
Specifications (ISE-100)

Power Source	24V DC – supplied by MU-100
Material	Aluminum
Wire	Aiphone #821802

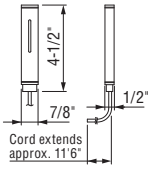
Specifications (IME-150)

Microphone	Condenser microphone, omnidirectional
Material	Aluminum
Detect Area	2m
Wire	Aiphone #821802

ISE-150



IME-150



IS Series Components

Control & Interface Units



IS-CCU
Central Control Unit
- Supports up to 4 master stations and 4 door/sub/room stations
- 8 dry contacts *(up to 4 can be used for door release)*



IS-SCU
Add-On Central Control Unit
- Supports up to 8 master stations and 8 door/sub/room stations
- 4 dry contacts



IS-RCU
Room Station Control Unit
- Supports up to 30 audio sub/room stations
- 4 dry contacts



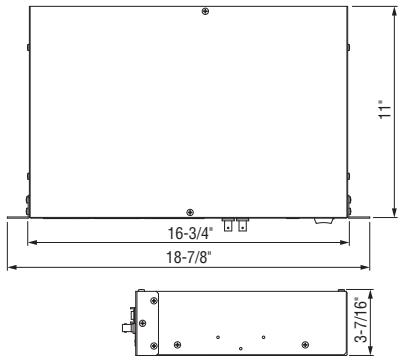
IS-IPC
Network/Phone Interface Unit
- Connects multiple hardwired systems over a network
- Provides a telephone line connection to forward calls from hardwired door/sub/room stations

Features
- 4 paging outputs
- 8 programmable contact outputs and 4 programmable contact inputs (IS-CCU)
- 4 programmable contact outputs (IS-SCU, IS-RCU)
- 2 chime inputs with selective volume control (IS-CCU)
- 2 BNC video outputs (IS-CCU, IS-SCU)
- Connects 1 IS-CCU or 1 IS-RCU to a network (IS-IPC)
- Up to 8 total IS-IPCs per site
- CO line output to telephone (IS-IPC)

Specifications

Power Source	48V DC — use IS-PU-UL
Consumption	IS-CCU: max. 0.65A
	IS-SCU: max. 1A
	IS-RCU: max. 1.8A
	IS-IPC: max. 0.17A
Channels	IS-CCU, IS-SCU: 2 talk, 2 video, 1 chime
	IS-RCU: 2 talk, 1 chime
	IS-IPC: 1 incoming call (IP), 1 outgoing call (IP), 1 outgoing call (tel.), 2 audio (communication), 1 audio (broadcast)
Mounting	19" EIA rack (2U) or wall mount
Wire Type	Cat-5e or Cat-6
Distance	Variable wiring distances – see table on page 15 for network devices and see table on page 21 for hardwired devices

IS-CCU, IS-SCU, IS-RCU, IS-IPC



Video Master Stations & PC Software



IS-MV
Video Master Station
- 3-1/2" LCD screen
- Hands-free communication with handset for privacy
- Wall or desk mount *(stand included)*



IS-IPMV
IP Video Master Station
- PoE or 24V DC
- 3-1/2" LCD screen
- Hands-free communication with handset for privacy
- Wall or desk mount *(stand included)*



IS-SOFT
PC Master Station Software
(requires one IS-IP device)

Features (IS-MV, IS-IPMV)
- Video identification and monitoring with 3-1/2" screen
- Video output (IS-MV) and audio output (IS-MV, IS-IPMV)
- 6 programmable station selection buttons
- Hands-free communication with handset for privacy
- Connects using Cat-5e or Cat-6 wire
- 802.3af PoE compliant (IS-IPMV)

Features (IS-SOFT)
- Video identification and monitoring
- Provides system controls and settings
- May be used instead of IS-MV or IS-IPMV

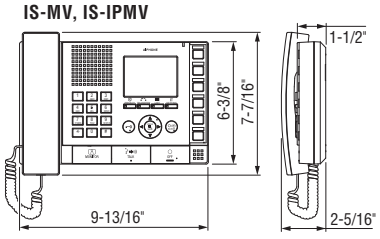
Specifications (IS-MV, IS-IPMV)

Power Source	IS-MV: supplied by IS-CCU or IS-SCU
	IS-IPMV: PoE (802.3af) or 24V DC — use PS-2420UL
Network Interface	10 BASE-T/100 BASE-TX Ethernet (RJ-45)
Network Protocols	TCP, UDP, IGMP (Multicast), SIP, SMTP, HTTPS
Bandwidth Usage	320Kbps to 8Mbps
Communication	Hands-free (VOX), push-to-talk (simplex), or handset (full-duplex)
Video Display	3-1/2" LCD screen
Door Release	Programmable Form C dry contact, 24V AC/DC, 500mA — use EL-12S (use RY-1824L for larger contact rating, which requires 24V DC power supply)
Mounting	Wall or desk mount (stand included)
Wire Type	Cat-5e or Cat-6
Distance	IS-MV to Control Unit: 980' IS-IPMV to Network Node: 330'

Specifications (IS-SOFT)

Software	OS: Windows® XP, Windows Vista® (32/64 bit), Windows® 7 (32/64 bit), Windows® 8 (32/64 bit), or Windows® 10
	Processor: 2GHz or faster
	Memory: 1GB of RAM

IS-MV, IS-IPMV



IS Series Components (continued)

Audio Room Sub Station



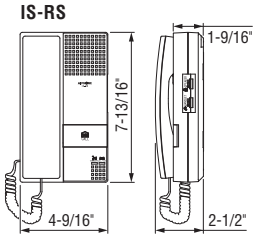
IS-RS
Audio Room Sub Station
- Hands-free communication with handset for privacy
- Indoor use
- Surface mount

Features
- N/O dry contact output (24V AC/DC, 500mA)
- Contact input (sensor, etc.)
- 8Ω, 500mW output for external speaker
- Hands-free communication with handset for privacy

Specifications

Power Source	Supplied by IS-CCU, IS-SCU, or IS-RCU
Communication	Hands-free or handset
Mounting	Surface mount directly to wall or 1-gang box
Wire Type	Cat-5e or Cat-6
Distance	Room Sub Station to Control Unit: 490'

IS-RS



Audio Door/Sub Stations



IS-SS-2G
Audio Door/
Sub Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*



IS-SS
Audio Door/
Sub Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



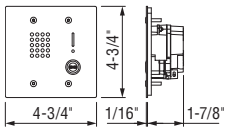
Surface mount boxes available! See p. 106

Features
- Weather and vandal resistant
- Form C dry contact for door release (24V AC/DC, 500mA)
- Indoor or outdoor use
- Connects using Cat-5e or Cat-6 wire
- Contact input for secondary call button (IS-SS-2G)

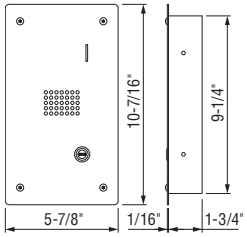
Specifications

Power Source	Supplied by IS-CCU, IS-SCU, or IS-RCU
Communication	Hands-free
Temp. Rating	14°~140°F (-10°~60°C)
Material	Stainless steel
Mounting	IS-SS-2G: flush mount with 2-gang box or surface mount with SBX-2G/A IS-SS: flush mount with included back box or surface mount with SBX-IDVF
Wire Type	Cat-5e or Cat-6
Distance	Door/Sub Station to Control Unit: 980'

IS-SS-2G



IS-SS



Video Door Stations



IS-DV
Video Door Station
- PTZ camera
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount



IS-IPDV
IP Video Door Station
- PoE or 24V DC
- PTZ camera
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount

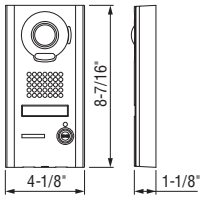
Features
- Digital PTZ video camera
- 170° viewing area
- Weather and vandal resistant
- Form C dry contact for door release (24V AC/DC, 500mA)
- Indoor or outdoor use
- Connects using Cat-5e or Cat-6 wire

Features
(additional for IS-IPDV)
- 802.3af PoE compliant

Specifications

Power Source	IS-DV: supplied by IS-CCU or IS-SCU IS-IPDV: PoE (802.3af) or 24V DC, 160mA — use PS-2420UL
Communication	Hands-free
Camera	Type: 1/4" CMOS View Area: 100° vertical x 170° horizontal
Temp. Rating	-40°~140°F (-40°~60°C)
Material	Aluminum die cast
Mounting	Surface mount directly to wall
Wire Type	Cat-5e or Cat-6
Distance	IS-DV to Control Unit: 980' IS-IPDV to Network Node: 330'

IS-DV, IS-IPDV



Video Door Stations (continued)



IS-DVF
Video Door Station
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



IS-IPDVF
IP Video Door Station
- PoE or 24V DC
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



IS-DVF-HID*
Card Access Video Door Station
- Same as IS-DVF, plus:
- HID® ProxPoint® Plus Proximity Card Reader



IS-IPDVF-HID*
Card Access IP Video Door Station
- Same as IS-IPDVF, plus:
- HID® ProxPoint® Plus Proximity Card Reader



IS-DVF-RP10*
Card Access Video Door Station
- Same as IS-DVF, plus:
- HID® multiCLASS SE® Proximity Card Reader



IS-IPDVF-RP10*
Card Access IP Video Door Station
- Same as IS-IPDVF, plus:
- HID® multiCLASS SE® Proximity Card Reader

* *HID® stations require a 3rd party host. Power for card reader and door strike require additional wire.*



Surface mount boxes available! See p. 106

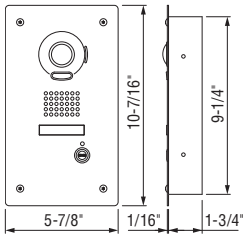
Features
- Digital PTZ video camera
- 170° viewing area
- Weather and vandal resistant
- Form C dry contact for door release (24V AC/DC, 500mA)
- Indoor or outdoor use
- Connects using Cat-5e or Cat-6 wire

Features
(additional for IS-IPDVF, IS-IPDVF-HID, IS-IPDVF-RP10)
- 802.3af PoE compliant

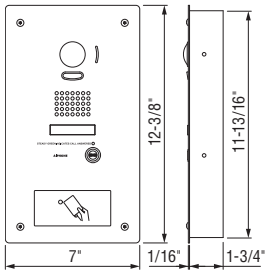
Specifications

Power Source	IS-DVF, IS-DVF-HID, IS-DVF-RP10: supplied by IS-CCU or IS-SCU IS-IPDVF, IS-IPDVF-HID, IS-IPDVF-RP10: PoE (802.3af compliant) or 24V DC, 160mA — use PS-2420UL
Communication	Hands-free
Camera	Type: 1/4" CMOS View Area: 100° vertical x 170° horizontal
Temp. Rating	IS-DVF, IS-IPDVF: -40°~140°F (-40°~60°C) IS-DVF-HID, IS-IPDVF-HID, IS-DVF-RP10, IS-IPDVF-RP10: -22°~140°F (-30°~60°C)
Material	Stainless steel
Mounting	IS-DVF, IS-IPDVF: flush mount with included back box or surface mount with SBX-IDVF IS-DVF-HID, IS-IPDVF-HID, IS-DVF-RP10, IS-IPDVF-RP10: flush mount with included back box or surface mount with SBX-ISDVFP
Wire Type	Cat-5e or Cat-6
Distance	Door Station to Control Unit: 980' Door Station to Network Node: 330' Door Station to Power Supply: 50'

IS-DVF, IS-IPDVF



IS-DVF-HID, IS-IPDVF-HID, IS-DVF-RP10, IS-IPDVF-RP10



ADA Compliant Video Emergency Station



IS-DVF-2RA
ADA Compliant Video Emergency Station

- PTZ camera
- Connects to IS-CCU or IS-SCU
- Lettering and braille signage
- LED call status indicator
- Two call buttons
- 2 Form C relay outputs
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



IS-DVF-2RA-FR
IS-DVF-2RA Emergency Station with French Labels



Surface mount box available! See p. 106

Features

- Digital PTZ video camera
- 170° viewing area
- Weather and vandal resistant
- Visual identification and audio communication between master station and calling area
- Call status indicator
- Backlit directory
- Tamper resistant screws
- Can be mounted into emergency wall boxes or towers

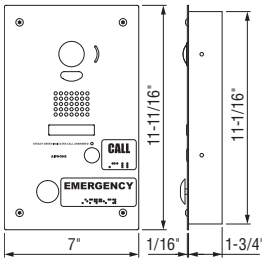
Features
(additional for IS-DVF-2RA)

- ADA compliant braille signage

Specifications

Power Source	Supplied by IS-CCU or IS-SCU
Communication	Hands-free
Camera	Type: 1/4" CMOS View Area: 100° vertical x 170° horizontal
Temp. Rating	14°~140°F (-10°~60°C)
Material	Stainless steel
Mounting	Flush mount with included back box or surface mount with SBX-IDVFRA
Wire Type	Cat-5e or Cat-6
Distance	Emergency Station to Control Unit: 980'

IS-DVF-2RA, IS-DVF-2RA-FR



ADA Compliant Audio Emergency Stations



IS-SS-2RA-R
ADA Compliant Audio Emergency Station

- Connects to IS-CCU, IS-SCU, or IS-RCU
- Two call buttons
- Lettering and braille signage
- LED call status indicator
- 2 Form C relay outputs
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



IS-SS-RA-R
ADA Compliant Audio Emergency Station

- Connects to IS-CCU, IS-SCU, or IS-RCU
- Lettering and braille signage
- LED call status indicator
- 2 Form C relay outputs
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



Surface mount boxes available! See p. 106

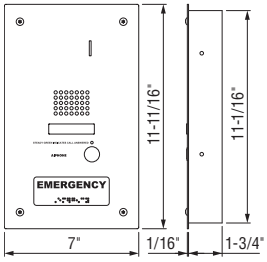
Features

- Weather and vandal resistant
- Audio communication between master station and calling area
- Call status indicator
- Backlit directory
- Tamper resistant screws
- ADA compliant braille signage
- Can be mounted into emergency wall boxes or towers

Specifications

Power Source	Supplied by IS-CCU, IS-SCU, or IS-RCU
Communication	Hands-free
Temp. Rating	14°~140°F (-10°~60°C)
Material	Stainless steel
Mounting	Flush mount with included back box or surface mount with SBX-IDVFRA
Wire Type	Cat-5e or Cat-6
Distance	Emergency Station to Control Unit: 980'

IS-SS-RA-R



IX Series Components

Video Master Stations



IX-MV7-HW *(white)*

IX-MV7-HB *(black)*
IP Video Master Station

- PoE
- SIP compatible
- 7" LCD touchscreen
- 8 speed dial buttons
- Camera for 2-way video calls
- On-board recording with a microSD™ card
- Hands-free communication with handset for privacy
- Wall or desk mount *(stand included)*



IX-MV7-W *(white)*

IX-MV7-B *(black)*
IP Video Master Station

- PoE
- SIP compatible
- 7" LCD touchscreen
- 8 speed dial buttons
- Camera for 2-way video calls
- On-board recording with a microSD™ card
- Hands-free communication
- Wall or desk mount *(stand included)*



IX-MV
Original IX Series IP
Video Master Station

- PoE
- 3-1/2" LCD screen
- 6 speed-dial buttons
- Hands-free communication with handset for privacy
- Wall or desk mount *(stand included)*

Features

- Video identification and monitoring
- Hands-free communication (IX-MV7-HB and IX-MV7-HW have a handset for privacy)
- Door release
- Brightness control
- Wall or desk mount (stand included)
- Connects using Cat-5e or Cat-6 wire
- 802.3af PoE compliant

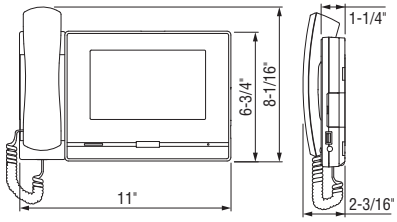
Features (additional for IX-MV7-B, IX-MV7-HB, IX-MV7-W, IX-MV7-HW)

- SIP compatible
- Record events and save to a microSD™ card (sold separately)
- Camera for 2-way video calls, includes privacy shutter
- Toggle between a close-up view and a CCTV camera view with picture-in-picture

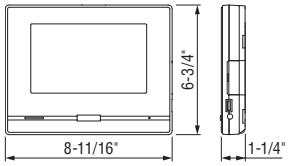
Specifications

Power Source	PoE (802.3af)
Network Interface	10 BASE-T / 100 BASE-TX Ethernet (RJ-45)
Network Protocols	IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP, RTCP, IGMP, MLD, SMTP, DHCP, NTP, DNS
Bandwidth Usage	Audio (G.722): 64Kbps x 2 for communication, 64Kbps for monitoring
	Video (H.264): 24Kbps- 2,048Kbps
Video Stream	ONVIF® Profile S
Communication	IX-MV7-HB, IX-MV7-HW: Hands-free (full-duplex, half-duplex with IX Series 2 stations), push-to-talk (simplex), or handset (full-duplex)
	IX-MV7-B, IX-MV7-W: Hands-free (full-duplex, half-duplex with IX Series 2 stations) or push-to-talk (simplex)
Video Display	IX-MV7-HB, IX-MV7-HW, IX-MV7-B, IX-MV7-W: 7" LCD touchscreen
	IX-MV: 3-1/2" LCD screen
Door Release	IX-MV7-HB, IX-MV7-HW, IX-MV7-B, IX-MV7-W: N/O dry contact, 24V AC/DC, 1A
	IX-MV: N/O dry contact, 24V AC/DC, 500mA
Mounting	Wall or desk mount (stand included)
Wire Type	Cat-5e or Cat-6
Distance	Master Station to Network Node: 330'

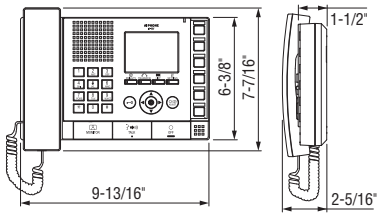
IX-MV7-HB, IX-MV7-HW



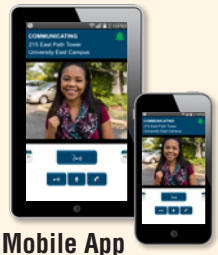
IX-MV7-B, IX-MV7-W



IX-MV



Sub Stations



IX Mobile App
Mobile App Sub Master Station for Smartphones and Tablets

(requires 1 master station and 1 IXW-MA per 8 apps in the system – mobile devices not included)

- Available on Google Play™ *(Google Play is a trademark of Google LLC.)*
- Available on the App Store℠ *(App Store is a service mark of Apple Inc.)*
- Provides station functionality to answer calls and unlock doors
- 4 speed dial buttons can be programmed to call, page, or monitor



IX-RS-W *(white)*
IX-RS-B *(black)*
Audio Room Sub Station

- PoE
- SIP compatible
- Internal communication with other sub stations
- Hands-free communication with handset for privacy
- Wall mount

Features (IX Mobile App)

- Turns mobile devices into an IX Series sub master station
- Mobile device(s) can connect via WiFi or over a cellular network with a VPN
- Video identification and monitoring
- Hands-free communication with "handset mode" for privacy
- Door release button
- Brightness control
- Recent Calls list
- 4 programmable speed dial buttons for calling stations or accessing paging zones

Features (IX-RS-B, IX-RS-W)

- Handset and hands-free communication
- 8Ω, 2-watt output
- SIP compatible
- Illuminated call button indicator
- Communication/call tone volume control switch
- 1 contact output
- 1 trigger input
- 802.3af PoE compliant
- 1 PoE LAN port

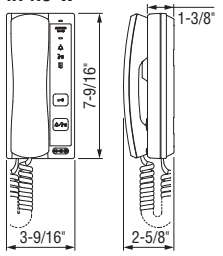
Specifications (IX Mobile App)

Requirements	1 master station, 1 IXW-MA, and 1 static IP address
Network Interface	WiFi or VPN
Network Protocols	IPv4, TCP, UDP, SIP, RTP, RTCP, IGMP, DHCP
Bandwidth Usage	Audio (G.722): 64Kbps x 2 for communication, 64Kbps for monitoring Video (H.264): 24Kbps – 2,048Kbps
Operating System	Android™ Apple® iOS
Communication	Hands-free (VOX), push-to-talk (simplex), or "handset mode"

Specifications (IX-RS-B, IX-RS-W)

Power Source	PoE (802.3af)
Audio Codec	G.722 (μ-law, A law), G.722
Protocols	IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP, RTCP, IGMP, MLD, SMTP, FTP, DHCP, NTP, DNS
Operating Temp	32° ~ 104°F (0° ~ 40°C)

IX-RS-B, IX-RS-W



IP Relay Adaptor



IXW-MA
IP Relay Adaptor for IX Series 2

(supports up to 8 mobile apps)

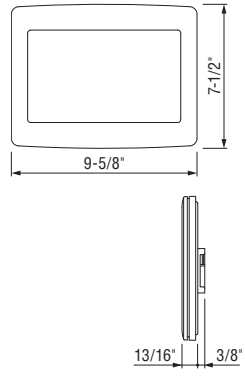
Features

- Compatibility with IX Support Tool makes programming efficient – no need to program adaptors separately
- PoE
- 10 outputs
- Supports up to 8 mobile apps

Specifications

Power Source	PoE (802.3af)
Consumption	43mA standby, 135mA max.
Relay Output	Relays 1-4: Form C, 24V AC/DC, 500mA Relays 5-10: Form A, 24V AC/DC, 500mA
Network Interface	Ethernet (10BASE-T, 100BASE-TX)
Network Protocols	IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, SMTP, SFTP, DHCP, NTP, DNS
Encryption System	TLS1.0, TLS1.1, TLS1.2
Port Security	IEEE 802.1X
Temp. Rating	14°~ 122°F (-10°~ 50°C)

IXW-MA



IX Series Components (continued)

2-Wire Network Adaptors



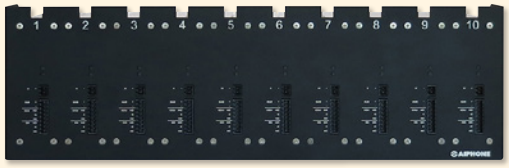
IPW-1VC
2-Wire Network Adaptor
(includes power supply)

- Upgrade 2-wire analog systems to an IP video intercom
- Use existing wire – up to 1,000' *(18-22AWG shielded, unshielded)*
- PoE
- Compact design is small enough to fit behind most door or sub stations



IX-1AS
2-Wire Audio Door/Sub Station Network Adaptor

- Supports 1 LE Series, NE Series, or 8Ω Door/Sub Station
- PoE



IX-10AS
2-Wire Audio Door/Sub Station Network Adaptor
(includes 10 IX-1AS adaptors – each requires an IP connection)

- Supports 10 LE Series, NE Series, or 8Ω Door/Sub Stations
- PoE *(x10)*

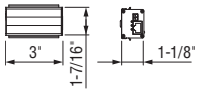
Features (IPW-1VC)

- Works with existing 2-conductor wire up to 1,000'
- Supports PoE
- LED indicators show unit connectivity and status

Specifications (IPW-1VC)

Power Source	48V DC, 1A
Consumption	< 2 Watts
Temp. Rating	-4°~140°F (-20°~60°C)
Mounting	Supplied mounting bracket
Wire Type	Network Adaptor to Network Node: Cat-5e or Cat-6
	Between Network Adaptors: existing 2 cond., shielded or non-shielded
Distance	Network Adaptor to Network Node: 15'
	Between Network Adaptors: 1,000' (22 AWG, 18 AWG)

IPW-1VC



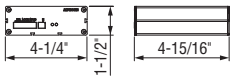
Features (IX-1AS, IX-10AS)

- Allows Aiphone's 2-wire LE and NE Series door/sub stations (see page 96) to be used with IX-MV or IX Mobile
- 802.3af PoE compliant
- Built-in door release and camera call-up
- Form C dry contacts

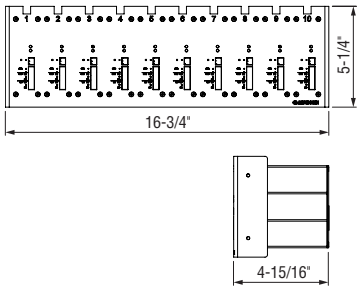
Specifications (IX-1AS, IX-10AS)

Power Source	PoE (802.3af)
Consumption	250mA (per door/sub station)
Network Interface	Ethernet (10BASE-T, 100BASE-TX)
Network Protocols	IPv4, TCP, UDP, SIP, HTTP, RTP, RTCP, IGMP, DHCP
Audio Codec	G.722
Door Release	24V DC, 500mA
Camera Call-Up	24V DC, 500mA
Temp. Rating	32°~122°F (0°~50°C)
Material	IX-1AS: aluminum
	IX-10AS: aluminum with steel faceplate
Mounting	IX-1AS: mounting rail (included)
	IX-10AS: 19" EIA rack (3U)
Wire Type	Network Adaptor to Network Node: Cat-5e or Cat-6
	Network Adaptor to LE or NE Door/Sub Station (see page 96): 2 cond., overall shield — use Aiphone #821802 or #822202
Distance	Network Adaptor to Network Node: 330'
	Network Adaptor to LE or NE Door/Sub Station: 650' (22 AWG) 1600' (18 AWG)

IX-1AS



IX-10AS



Network Paging Adaptor



IX-PA
Network Paging Adaptor

- 8Ω, 5W speaker output
- 600Ω amplifier output
- Audio input
- PoE

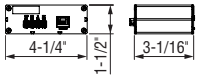
Features

- Input for prerecorded messages
- Allows paging from an IX-MV or IX Mobile App
- 600Ω output is compatible with most amplifiers
- Increases flexibility of the IX Series

Specifications

Power Source	PoE (802.3af)
Consumption	250mA
Network Interface	Ethernet (10BASE-T, 100BASE-TX)
Network Protocols	IPv4, TCP, UDP, SIP, HTTP, RTP, RTCP, IGMP, DHCP
Audio Codec	G.722
Temp. Rating	32°~122°F (0°~50°C)
Material	Aluminum
Mounting	Mounting rail (included)
Wire Type	Paging Adaptor to Network Node: Cat-5e or Cat-6
	Paging Adaptor to 8Ω Speaker: 2 cond., overall shield — use Aiphone #821802 or #822202
Distance	Paging Adaptor to 8Ω Speaker: 650' (22 AWG) 1600' (18 AWG)
	Paging Adaptor to Network Node: 330'

IX-PA



IX Series Components (continued)

Security Housing for IX-BA & IX-DA



IX-SDH
Surface Mount Security Housing for IX-BA or IX-DA



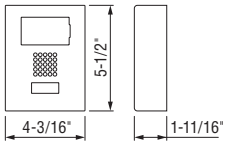
IX-SDH-P
Surface Mount Security Door Housing with HID® multiCLASS SE® Proximity Card Reader for IX-BA or IX-DA

Features
- Stainless steel construction
- Weather resistant for outdoor use
- Can be added to any existing IX-BA or IX-DA

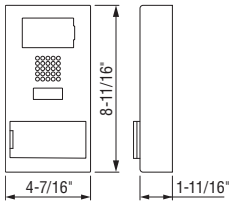
Specifications

Material	14GA stainless steel
Mounting	Surface mount directly to wall

IX-SDH



IX-SDH-P



Video Door Stations



IX-DA
IP Video Door Station
- PoE
- SIP compatible
- Fixed camera
- Plastic chassis
- Weather resistant
- Surface mount



IX-DV
IP Video Door Station
- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- On-board recording with a microSD™ card
- Fixed camera
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount



IX-DVF
IP Video Door Station
- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- On-board recording with a microSD™ card
- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



IX-DVF-4
IP Video Door Station
- 4 call buttons
- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- On-board recording with a microSD™ card
- Fixed camera
- Stainless steel panel
- Weather resistant
- Flush mount *(back box included)*



Surface mount boxes available for flush mount stations! See p. 106



IX-DVF-P*
Card Access IP Video Door Station
- HID® multiCLASS SE® Proximity Card Reader
- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- On-board recording with a microSD™ card
- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

***** *HID® station requires a 3rd party host. Power for card reader and door strike require additional wire.*

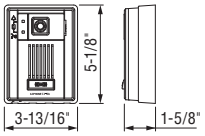
Features
- Fixed camera provides clear video
- Weather and vandal resistant (IX-DA and IX-DVF-4 are weather resistant only)
- Indoor or outdoor use
- Connects using Cat-5e or Cat-6 wire
- 802.3af PoE compliant
- SIP compatible (not IX-DA)

Features (additional for IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P)
- PoE passthrough can power additional device (requires PoE+)

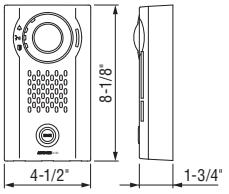
Specifications

Power Source	IX-DA: PoE (802.3af)
	IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P: PoE (802.3af) or 24V DC — use PS-2420UL
Communication	Hands-free
Camera	IX-DA: 1/4" CCD
	IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P: 1/3" color CMOS 1.2 megapixel
	Area View: 2' 1" vertical x 3' 1" horizontal at 20"
Temp. Rating	IX-DA, IX-DV, IX-DVF, IX-DVF-4: -40°~140°F (-40°~60°C)
	IX-DVF-P: -22°~140°F (-30°~60°C)
Material	IX-DA: fire resistant ABS plastic
	IX-DV: aluminum die cast cover
	IX-DVF, IX-DVF-4, IX-DVF-P: stainless steel
Door Release	IX-DA: programmable Form C dry contact, 24V AC/DC, 500mA
	IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P: 2 Form C dry contacts, 24V AC/DC, 1A
Mounting	IX-DA: surface mount
	IX-DVF: flush mount with included back box or surface mount with SBX-IDVF
	IX-DVF-4, IX-DVF-P: flush mount with included back box or surface mount with SBX-IDVFRA
Wire Type	Cat-5e or Cat-6
Distance	Door Station to Network Node: 330'
	Door Station to Power Supply: 50'

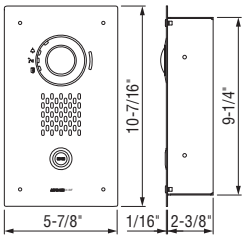
IX-DA



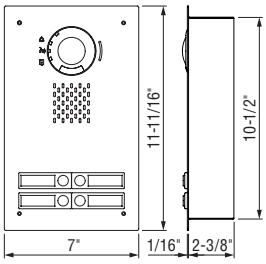
IX-DV



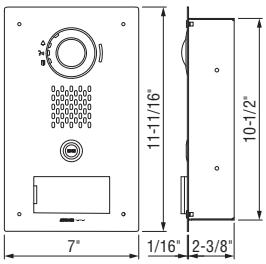
IX-DVF



IX-DVF-4



IX-DVF-P



IX Series Components (continued)

Audio Door Stations



IX-BA
IP Audio Door Station
- PoE
- SIP compatible
- Plastic chassis
- Weather resistant
- Surface mount



IX-SS-2G
IP Audio Door Station
- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- On-board recording with a microSD™ card
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



IX-SSA
IP Audio Door Station
- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- On-board recording with a microSD™ card
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



IX-NVP
IP Audio Door Station
- PoE
- Powder-coated steel panel
- Weather and vandal resistant
- Flush mount *(fits 3-gang box)*



IX-NVP2
IP Audio Door Station
- Two call buttons
- PoE
- Powder-coated steel panel
- Weather and vandal resistant
- Flush mount *(fits 3-gang box)*



Surface mount boxes available for flush mount stations! See p. 106

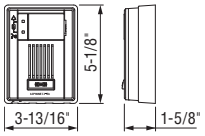
Features
- Weather resistant
- Indoor or outdoor use
- Connects using Cat-5e or Cat-6 wire
- 802.3af PoE compliant
- SIP compatible (not IX-BA)

Features (additional for IX-SSA)
- PoE passthrough can power additional device (requires PoE+)

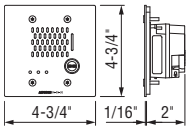
Specifications

Power Source	IX-BA, IX-SS-2G, IX-NVP, IX-NVP2: PoE (802.3af) IX-SSA: PoE (802.3af) or 24V DC — use PS-2420UL
Communication	Hands-free
Temp. Rating	-40°~140°F (-40°~60°C)
Material	IX-BA: fire resistant ABS plastic IX-SS-2G, IX-SSA: stainless steel IX-NVP, IX-NVP2: powder-coated steel
Door Release	IX-BA: programmable Form C dry contact, 24V AC/DC, 500mA IX-SSA: 2 Form C dry contacts, 24V AC/DC, 1A IX-SS-2G, IX-NVP, IX-NVP2: Form C dry contact, 24V AC/DC, 1A
Mounting	IX-BA: surface mount IX-SS-2G: flush mount with 2-gang box or surface mount with SBX-2G/A IX-SSA: flush mount with included back box or surface mount with SBX-IDVF IX-NVP, IX-NVP2: flush mount with 3-gang back box or surface mount with SBX-NVP/A
Wire Type	Cat-5e or Cat-6
Distance	Door Station to Network Node: 330' Door Station to Power Supply: 50'

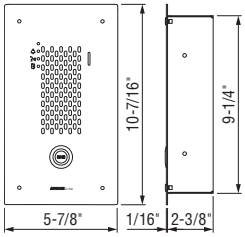
IX-BA



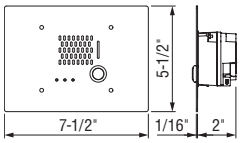
IX-SS-2G



IX-SSA



IX-NVP, IX-NVP2



ADA Compliant Video Emergency Station



IX-DVF-2RA
ADA Compliant IP Video Emergency Station
- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- On-board recording with a microSD™ card
- Fixed camera
- Two call buttons
- Lettering and braille signage
- LED call status indicator
- 2 Form C relay outputs
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



IX-DVF-RA
ADA Compliant IP Video Emergency Station
- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- On-board recording with a microSD™ card
- Fixed camera
- Lettering and braille signage
- LED call status indicator
- 2 Form C relay outputs
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

Stations are also available with French labels:

IX-DVF-2RA-FR

IX-DVF-RA-FR



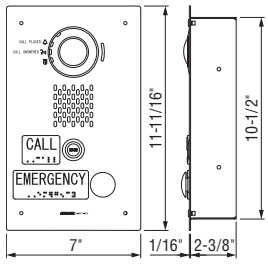
Surface mount box available! See p. 106

Features
- Fixed camera provides clear video
- Weather and vandal resistant
- Indoor or outdoor use
- Connects using Cat-5e or Cat-6 wire
- 802.3af PoE compliant
- SIP compatible
- Call status indicator
- Tamper resistant screws
- Can be mounted into emergency wall boxes or towers
- ADA compliant braille signage
- PoE passthrough can power additional device (requires PoE+)

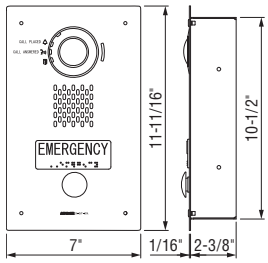
Specifications

Power Source	PoE (802.3af) or 24V DC — use PS-2420UL
Communication	Hands-free
Camera	Type: 1/3" color CMOS 1.2 megapixel Area View: 2' 1" vertical x 3' 1" horizontal at 20"
Temp. Rating	-40°~140°F (-40°~60°C)
Material	Stainless steel
Door Release	2 Form C dry contacts, 24V AC/DC, 1A
Mounting	Flush mount with included back box or surface mount with SBX-IDVFRA
Wire Type	Cat-5e or Cat-6
Distance	Emergency Station to Network Node: 330' Door Station to Power Supply: 50'

IX-DVF-2RA, IX-DVF-2RA-FR



IX-DVF-RA, IX-DVF-RA-FR

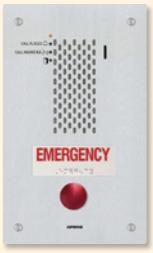


ADA Compliant Audio Emergency Stations



IX-SSA-2RA
ADA Compliant IP Audio Emergency Station

- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- Compatible slot for microSD™ card
- Two call buttons
- Lettering and braille signage
- LED call status indicator
- 2 Form C relay outputs
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



IX-SSA-RA
ADA Compliant IP Audio Emergency Station

- PoE *(with passthrough port)* or 24V DC
- SIP compatible
- Compatible slot for microSD™ card
- Lettering and braille signage
- LED call status indicator
- 2 Form C relay outputs
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

Stations are also available with French labels:

IX-SSA-2RA-FR,
IX-SSA-RA-FR



Surface mount box available! See p. 106

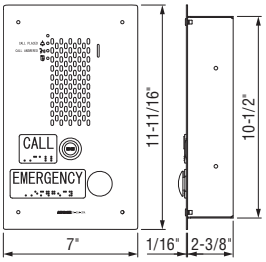
Features

- Weather resistant
- Indoor or outdoor use
- Connects using Cat-5e or Cat-6 wire
- 802.3af PoE compliant
- Call status indicator
- Tamper resistant screws
- Can be mounted into emergency wall boxes or towers
- ADA compliant braille signage

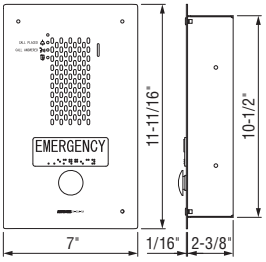
Specifications

Power Source	PoE (802.3af) or 24V DC — use PS-2420UL
Communication	Hands-free
Temp. Rating	-40°~140°F (-40°~60°C)
Material	Stainless steel
Door Release	2 Form C dry contacts, 24V AC/DC, 1A
Mounting	Flush mount with included back box or surface mount with SBX-IDVFRA
Wire Type	Cat-5e or Cat-6
Distance	Emergency Station to Network Node: 330' Door Station to Power Supply: 50'

IX-SSA-2RA, IX-SSA-2RA-FR



IX-SSA-RA, IX-SSA-RA-FR



PoE Splitter



PS-POE
PoE Splitter

Features

- Powers strobe light, eliminating the need of a separate power supply
- Avoid added wire – only one cable is needed from the PoE+ switch when wired with an IX Series 2 emergency station
- Mounts directly to the back of an IX Series 2 emergency call station or 1-gang box
- Can withstand temperatures ranging from -40 to 140° F

Specifications

Power Source	PoE (803.2af)
Consumption	8.4W
Output	24V DC, 350mA
Temp. Rating	-40°~140°F (-40°~60°C)
Dimensions	3-1/4" H x 2-1/2" W x 1" D

IX & IS Series Wall Boxes

ADA Compliant Wall Boxes

UL LISTED Electrical Box



WB-CA* *(cage)*
WB-HA* *(hood)*
ADA Compliant Wall Box

- Beacon/strobe light
- ASSISTANCE lettering
- UL Listed electrical box
- Stainless steel enclosure with slim, 4" depth
- Wall mount



WB-CE* *(cage)*
WB-HE* *(hood)*
ADA Compliant Wall Box

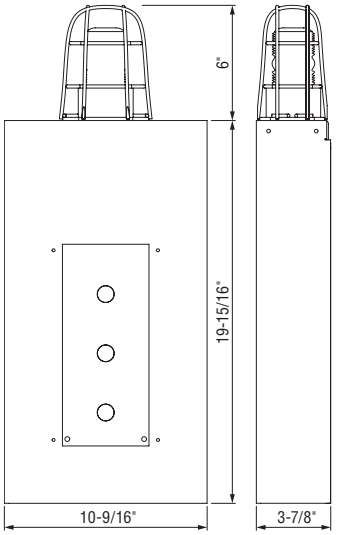
- Beacon/strobe light
- EMERGENCY lettering
- UL Listed electrical box
- Stainless steel enclosure with slim, 4" depth
- Wall mount

NOTE: *Power required for the beacon/strobe light — use PS-POE splitter to draw power from PoE+ network switch.*

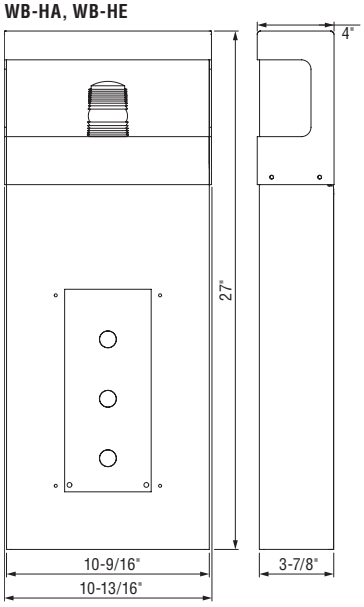
Features

- Includes UL Listed electrical box
- Made of 12 gauge stainless steel
- Beacon/Strobe light on top is protected by a cage enclosure or full hood enclosure
- Compatible with any IS Series or IX Series Emergency Station
- Lettering on sides available in either EMERGENCY or ASSISTANCE
- 4" depth, proper signage, and call button mounting height meet ADA requirements
- Interior bracket (right side) has 1-gang mounting pattern
- Built-in accessory mounting hardware with internal threads (female: M3 x .05, 1-gang spacing pattern)

WB-CA, WB-CE

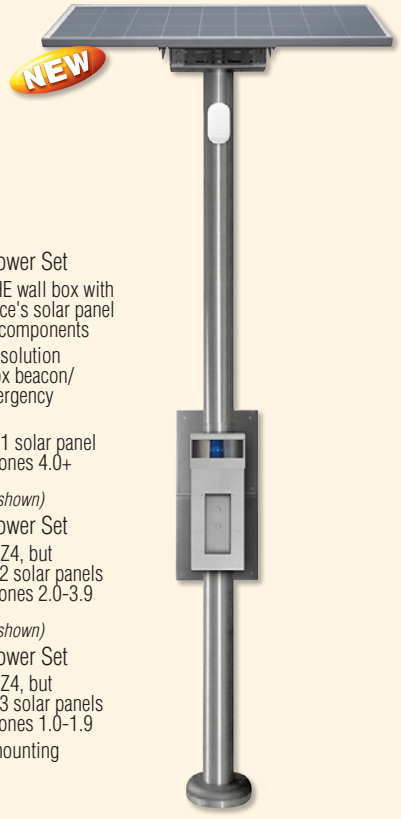


WB-HA, WB-HE



IX Series Solar Tower Sets

Solar Tower Sets



TWS-Z4
Zone 4 Solar Tower Set

- Includes WB-HE wall box with Sun Surveillance's solar panel and mounting components
- Wireless solar solution powers wall box beacon/strobe and emergency call station
- Equipped with 1 solar panel for sun-rated zones 4.0+

TWS-Z2 *(not shown)*
Zone 2 Solar Tower Set

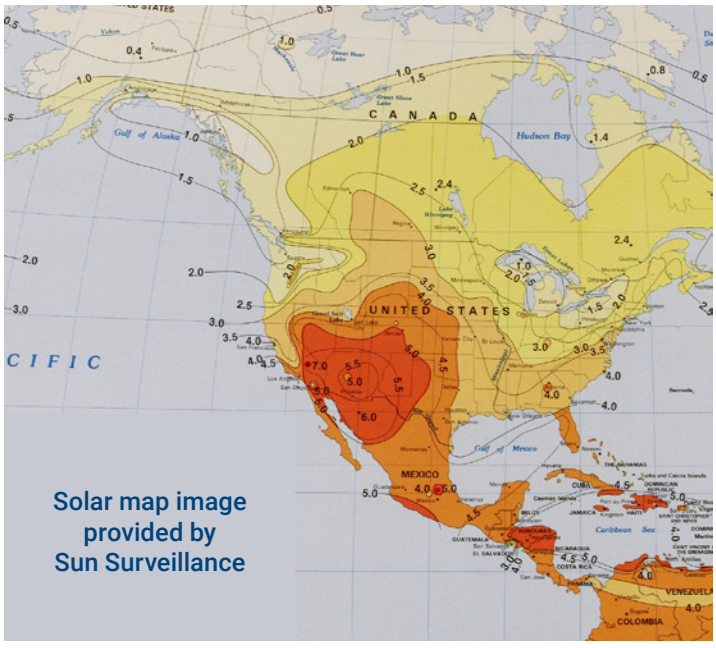
- Same as TWS-Z4, but equipped with 2 solar panels for sun-rated zones 2.0-3.9

TWS-Z1 *(not shown)*
Zone 1 Solar Tower Set

- Same as TWS-Z4, but equipped with 3 solar panels for sun-rated zones 1.0-1.9
- Direct-burial mounting

Features

- Wireless solar solution uses the sun to power all components
- Pre-assembled sets include WB-HE wall box with mounting pole, battery and electrical enclosure, WiFi device, and 1, 2, or 3 solar panels (see solar map as a guideline to determine the model best suitable for a region based on its sun rating zone)
  - TWS-Z1 with 3 panels is recommended for zones rated 1.0 to 1.9
  - TWS-Z2 with 2 panels is recommended for zones rated 2.0 to 3.9
  - TWS-Z4 with 1 panels is recommended for zones rated 4.0+
- TWS-Z4 and TWS-Z2 can be mounted above ground (TWS-Z1 requires underground mounting due to weight)



Solar map image provided by Sun Surveillance

IX & IS Series Modular Towers

Modular Towers

STEP 1 (required)
Choose modular tower size and color.



- **TW-20B/A** 2-Module Tower, Blue
- **TW-20R/A** 2-Module Tower, Red
- **TW-20Y/A** 2-Module Tower, Yellow



- **TW-22B/A** 3-Module Dual-Intercom Tower, Blue
- **TW-22R/A** 3-Module Dual-Intercom Tower, Red
- **TW-22Y/A** 3-Module Dual-Intercom Tower, Yellow



- **TW-23B/A** 3-Module Tower, Blue
- **TW-23R/A** 3-Module Tower, Red
- **TW-23Y/A** 3-Module Tower, Yellow

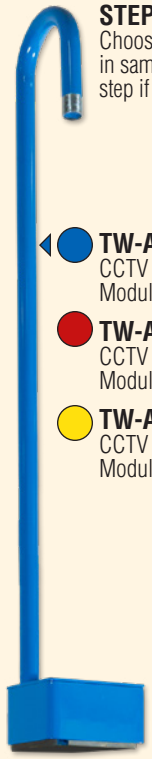
UL LISTED Electrical Box

- CCTV camera arm module with universal pipe threading (1.50" NPT threading x 1" long)
- Includes accessory mounting hardware with external threads (male: M3 x .05, 1-gang spacing pattern)
- Large access panel on each module

Features

- 1/4" zinc-treated steel with powder coating
- Weather and vandal resistant
- Modular design provides lower freight costs and easier assembly than non-modular towers
- Variety of configurations, including size, lettering, and colors
- Compatible with any IS Series or IX Series emergency station
- Beacon / Strobe light on top of tower and LED on front panel can share same power supply — use PS-POE with IX Series 2 systems (requires PoE+) or use PS-2420UL with IS Series systems
- Beacon is always lit and flashes during emergency call-in
- Call button mounting height meets ADA regulations

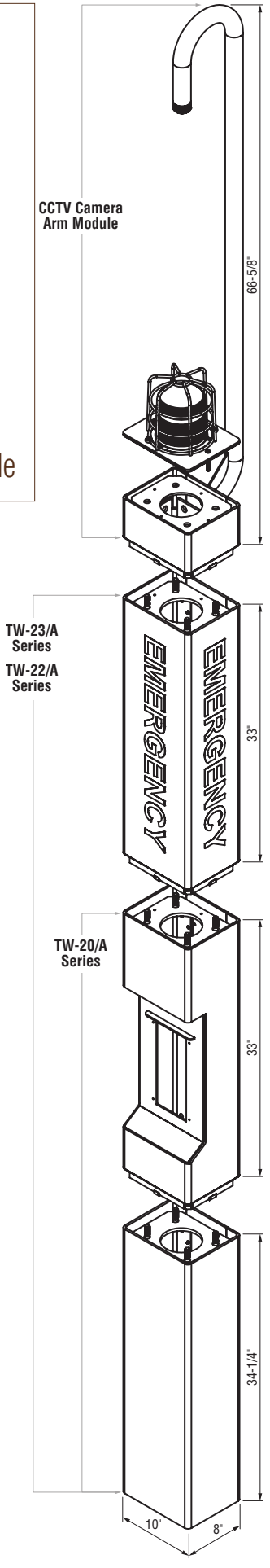
CCTV Camera Arm for Modular Towers



STEP 2 (optional)
Choose optional CCTV camera arm in same color as tower. Skip this step if module is not required.

- **TW-ARM-CB** CCTV Camera Arm Module for Tower, Blue
- **TW-ARM-CR** CCTV Camera Arm Module for Tower, Red
- **TW-ARM-CY** CCTV Camera Arm Module for Tower, Yellow

NOTE: *The CCTV camera arm module is only compatible with new tower modules that have the '/A' in the model name.*



Components

IX & IS Series Modular Towers (continued)

Cap Options for Modular Towers

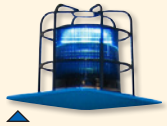
STEP 3 (required)
Choose cap style in same color as tower.



TW-TPB
Top Plate, Blue

TW-TPR
Top Plate, Red

TW-TPY
Top Plate, Yellow



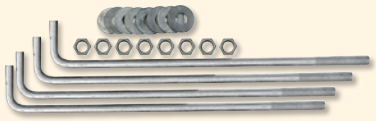
TW-LCB
Top Plate with Cage and Beacon/Strobe Light, Blue

TW-LCR
Top Plate with Cage and Beacon/Strobe Light, Red

TW-LCY
Top Plate with Cage and Beacon/Strobe Light, Yellow

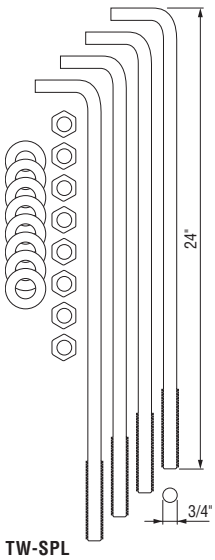
Mounting Kit for Modular Towers

STEP 5 (recommended)
Add a mounting kit for tower installation. Aiphone's TW-MKL is recommended.



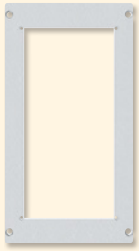
TW-MKL
L-Bolt Mounting Kit for Modular Towers

TW-MKL



Tower Mounting Plate

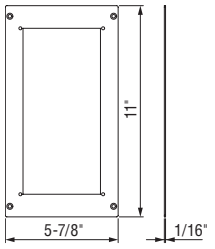
STEP 6 (optional)
Add the tower mounting plate ONLY if installing a non-emergency station into the tower AND strobe function is not needed.



TW-SPL
Tower Mounting Plate for IS-DVF, IS-SS, IX-DVF, or IX-SSA

- 14-guage stainless steel
- Adapts standard door station to an Aiphone tower or wall box
- Mounts directly to tower or wall box

TW-SPL



Lettering Options for Modular Towers

STEP 4 (required)
Choose ASSISTANCE or EMERGENCY lettering. Refer to chart for applicable lettering quantities.

TW-ASK
Black ASSISTANCE Lettering for Blue, Red, White, or Yellow Towers

TW-EMK
Black EMERGENCY Lettering for Blue, Red, White, or Yellow Towers

TW-ASW
White ASSISTANCE Lettering for Blue, Black, or Red Towers

TW-EMW
White EMERGENCY Lettering for Blue, Black, or Red Towers

Lettering Order Quantities

	TW-20/A Series	TW-22/A Series	TW-23/A Series
All 4 Sides			Order qty of 4
3 Sides – Left, Right, and Front			Order qty of 3
3 Sides – Left, Right, and Back	Order qty of 3	Order qty of 3	Order qty of 3
2 Sides – Left and Right	Order qty of 2	Order qty of 2	Order qty of 2
1 Side – Left, Right, or Back	Order qty of 1	Order qty of 1	Order qty of 1
No Lettering	N/A	N/A	N/A

NOTE: *All lettering is applied to the tower at the factory.*



Power Supply

STEP 7 (recommended)
Add power for the beacon/strobe and LED illuminator lights. Aiphone's PS-POE is recommended.



PS-POE
PoE Splitter
→ p. 84

NOTE: *Power required for the beacon/strobe light — use PS-POE splitter to draw power from PoE+ network switch.*



Does your project require customization? Contact Aiphone's Technical Support to learn about custom color and lettering options.
800.692.0200



JF Series Components

Master & Sub Master Stations



JF-2MED
Video Master Station
(included with all JFS box sets)
- 3-1/2" LCD screen
- Picture Memory



JF-2HD
Video Sub Master Station
- 3-1/2" LCD screen



JF-2SD
Audio Sub
Master Station

Features

- Video identification and monitoring with 3-1/2" screen (JF-2MED, JF-2HD)
- Hands-free communication
- Door release
- All Call between inside stations
- Surface mounts to wall on 1-gang box or ring

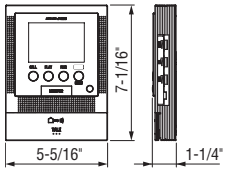
Features
(additional for JF-2MED)

- Internal Picture Memory
- Internal voice memo and outgoing message can be recorded for playback
- 5 display languages (English, French, German, Spanish or Dutch)
- External sensor input

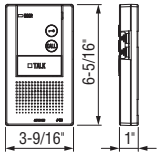
Specifications

Power Source	18V DC — use PS-1820UL
Communication	Hands-free (VOX) or push-to-talk (simplex)
Video Display	JF-2MED, JF-2HD: 3-1/2" LCD screen
	JF-2SD: N/A
Picture Memory	JF-2MED: record max. 50 calls (8 images per call) with up to 10 calls protected from overwriting
	JF-2HD, JF-2SD: N/A
Door Release	N/O dry contact, 24V AC/DC, 500mA — use EL-12S (use RY-1824L for larger contact rating or RY-3DL for 2 doors)
Mounting	Surface mount directly to wall or desk mount using MCW-S/A
Wire Type	Door Station to Master Station: 2-cond., mid cap, solid, non-shielded — use Aiphone #871802
	Power Supply to Master Station: 2-cond., mid cap, solid, non-shielded — use Aiphone #871802
	Master Station to Sub Master Station: 4-cond., mid cap, solid, non-shielded — use Aiphone #871804
	Sub Master Station to Sub Master Station: 4-cond., mid cap, solid, non-shielded — use Aiphone #871804
Distance	Door Station to Master Station: 165' (22 AWG) 330' (18 AWG)
	Master Station to farthest Sub Master Station: 165' (22 AWG) 330' (18 AWG)
	Power Supply to Master Station: 16' (22 AWG) 33' (18 AWG)

JF-2MED, JF-2HD



JF-2SD



Long Distance Adaptor



JBW-BA
Long Distance
Adaptor for Video
Door Stations

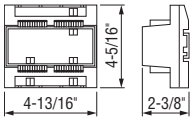
Features

- Extends wiring distance from door stations to master stations up to 820' max.
- Requires low capacitance Aiphone wire #851602 or #851602DB

Specifications

Power Source	18V DC — use PS-1820UL
Capacity	One adaptor unit for each video door station located beyond the standard specified wire distance
Mounting	DIN rail (included)
Wire Type	2-cond., low cap, PE, solid, non-shielded — use Aiphone #851602 or #851602DB (direct burial)
Distance	Adaptor to Door Station: 820'
	Adaptor to Master Station: 165'

JBW-BA



Components

JF Series Components (continued)

Audio Door Station



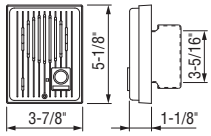
JF-D
Audio Door Station
- Plastic chassis
- Weather resistant
- Surface mount

Features
- Compact surface mount design
- Mounts to 1-gang box or ring
- Locator LED beside call button

Specifications

Power Source	Supplied by Master Station
Communication	Hands-free
Temp. Rating	14°~140°F (-10°~60°C)
Material	Fire resistant PC + ABS plastic
Mounting	Surface mount directly to wall or 1-gang box
Wire Type	Door Station to Master Station: 2-cond., low cap, non-shielded — use Aiphone #871802
Distance	Door Station to Master Station: 165' (22 AWG) 330' (18 AWG)

JF-D



Video Door Stations



JF-DA
Video Door Station
(included with JFS-2AED box set)
- Fixed camera
- Plastic chassis
- Weather resistant
- Surface mount



JF-DV
Video Door Station
(included with JFS-2AEDV box set)
- Fixed camera
- Zinc die cast cover
- Weather and vandal resistant
- Surface mount



JF-DVF
Video Door Station
(included with JFS-2AEDF box set)
- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



JF-DVF-HID*
Card Access Video Door Station
- HID® ProxPoint® Plus Proximity Card Reader
- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*

* *HID® stations require a 3rd party host. Power for card reader and door strike require additional wire.*



Surface mount box available for flush mount stations! See p. 106

Features
- Fixed camera provides clear video
- LED illumination automatically turns on in low light conditions

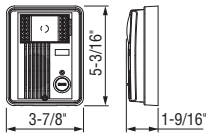
Features
(additional for JF-DA)
- Locator LED above call button
- Mounts directly to wall or 1-gang box

Features
(additional for JF-DV, JF-DVF, JF-DVF-HID)
- LED backlit nameplate

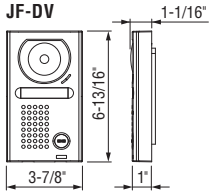
Specifications

Power Source	Supplied by Master Station
Communication	Hands-free
Camera	Type: 1/4" CCD Area View: 2' 1" vertical x 3' 1" horizontal at 20"
Temp. Rating	14°~140°F (-10°~60°C)
Material	JF-DA: fire resistant PC + ABS plastic JF-DV: zinc die cast JF-DVF, JF-DVF-HID: stainless steel
Mounting	JF-DA: surface mount directly to wall or 1-gang box JF-DV: surface mount directly to wall JF-DVF: flush mount with included back box or surface mount with SBX-DVF JF-DVF-HID: flush mount with included back box or surface mount with SBX-DVF-P
Wire Type	Door Station to Master Station: 2-cond., low cap, non-shielded — use Aiphone #871802
Distance	Door Station to Master Station: 165' (22 AWG) 330' (18 AWG)

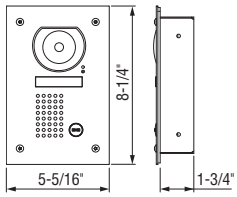
JF-DA



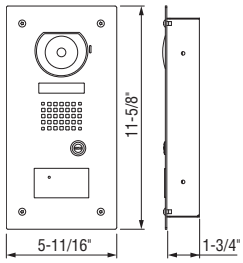
JF-DV



JF-DVF



JF-DVF-HID

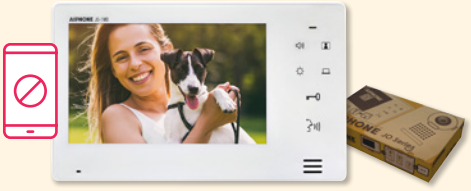


JO Series Components

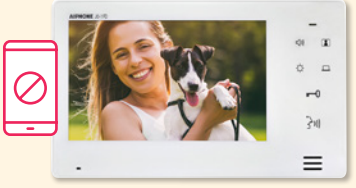
Video Master & Expansion Stations



JO-1MDW
App-Compatible Video Master Station
(included with JOS-1AW, JOS-1VW, and JOS-1FW box sets – also sold separately)
- Connect up to 8 free mobile apps
- 7" LCD touchscreen
- Built-in expandable memory for recording calls
- Hands-free or push-to-talk communication



JO-1MD
Video Master Station
(included with JOS-1A, JOS-1V, and JOS-1F box sets – not sold separately)
- 7" LCD screen
- Touch buttons
- Hands-free or push-to-talk communication



JO-1FD
Video Expansion Station
- 7" LCD screen
- Touch buttons
- Hands-free or push-to-talk communication

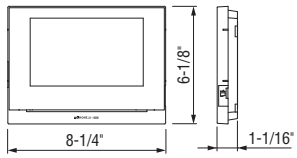
Features
- Video identification and monitoring
- Slim design
- Hands-free communication or push-to-talk

Features (additional for JO-1MDW)
- Up to 8 free mobile apps can be connected with app-compatible video master station
- 7" touchscreen
- Built-in expandable memory for recording calls

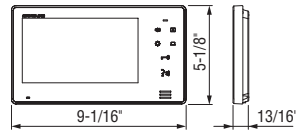
Specifications

Power Source	18V DC — use PS-1820UL
Communication	Hands-free (VOX) or push-to-talk (simplex)
Video Display	JO-1MDW: 7" LCD touchscreen
	JO-1MD, JO-1FD: 7" LCD screen
Picture Memory	Internal/Built-In: record max. 10 calls (10 seconds per call) with up to 5 calls protected from overwriting
	SD/SDHC card: record max. 1,000 calls (10 seconds per call) with up to 100 calls protected from overwriting
Door Release	JO-1MDW: N/O dry contact, 24V AC/DC, 1A — use EL-12S
	JO-1MD, JO-1FD: N/O dry contact, 24V AC/DC, 500mA — use EL-12S
Mounting	Surface mount directly to wall or desk mount using MCW-S/A
Wire Type	Door Station to Master Station: 2-cond., mid cap, solid, non-shielded — use Aiphone #871802
	Door Station to Expansion Station: 2-cond., mid cap, solid, non-shielded — use Aiphone #871802
	Expansion Station to Master Station: 4-cond., mid cap, solid, non-shielded — use Aiphone #871804
	Expansion Station to Master Station with door release: 6-cond., mid cap, solid, non-shielded — use Aiphone #871804 + #871802
Distance	Door Station to Master Station: 165' (22 AWG) 330' (18 AWG)
	Door Station to Expansion Station: 165' (22 AWG) 330' (18 AWG)
	Expansion Station to Master Station: 165' (22 AWG) 330' (18 AWG)
	Power Supply to Master Station: 16' (22 AWG) 33' (18 AWG)

JO-1MDW



JO-1MD, JO-1FD



Virtual Expansion Station Mobile App



Intercom App Type B
Virtual Expansion Station Mobile App for Smartphones and Tablets
(requires JO-1MDW)
- Up to 8 free mobile apps per system
- Calls can be answered and doors can be unlocked while on-the-go
- Hands-free or push-to-talk communication
- Available on Google Play™
  (Google Play is a trademark of Google LLC.)
- Available on the App Store℠
  (App Store is a service mark of Apple Inc.)

Features
- Visitors can be answered from virtually anywhere for on-the-go security and convenience
- Works with a variety of smartphones and tablets
- Up to 8 free mobile apps can be downloaded per system
- Provides ability to activate the video door station camera to monitor entry from a remote location
- Recorded calls can be viewed directly from a smartphone or tablet
- In-app door release slider prevents accidental unlocking

Specifications

Capacity	Up to 8 mobile apps per JO Series system
Door Release	In-app slider activates dry contacts on JO-1MDW
Requirements	1 JO-1MDW
Network Interface	WiFi or 4G
Network Protocols	IPv4, TCP, UDP, SIP, RTP, RTCP, IGMP, DHCP
Bandwidth Usage	1.3MBs upload and download minimum
Operating System	Android™
	Apple® iOS
Communication	Hands-free (VOX), push-to-talk (simplex), or "handset mode"

JO Series Components (continued)

2-Door Station Adaptor



JOW-2D
2-Door Station Adaptor

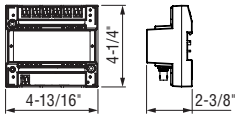
Features

- Allows a second door station to be connected to any JO Series system
- Can be added to existing systems for upgrade opportunities
- Combined with mobile app, system can now be a full 2x10 capacity
- Selective door release is routed to the door station where communication is established

Specifications

Power Source	18V DC (supplied by JO Series master station)
Consumption	18mA standby, 100mA max.
Relay Outputs	JO-1MDW: 24V DC, 1A
	JO-1MD, JO-1FD: 24V DC, 500mA
Temp. Rating	32°~104°F (0°~40°C)

JOW-2D



Video Door Stations



JO-DA
Video Door Station
(included with JOS-1A and JOS-1AW box sets – not sold separately)

- Fixed camera
- Plastic chassis
- Weather resistant
- Surface mount



JO-DV
Video Door Station
(included with JOS-1V and JOS-1VW box sets – also sold separately)

- Fixed camera
- Zinc die cast cover
- Weather and vandal resistant
- Surface mount



JO-DVF
Video Door Station
(included with JOS-1F and JOS-1FW box sets – not sold separately)

- Fixed camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



Surface mount box available for flush mount station!
See p. 106

Features

- Fixed camera provides clear video
- LED illumination automatically turns on in low light conditions

Features (additional for JO-DA)

- Mounts directly to wall or 1-gang box
- LED backlit call button

Features (additional for JO-DV)

- Compatible with GT-MKB-N video guard station

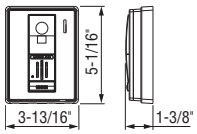
Features (additional for JO-DV, JO-DVF)

- LED backlit nameplate

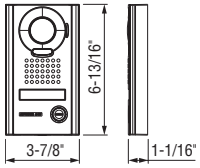
Specifications

Power Source	Supplied by Master Station or Expansion Station
Communication	Hands-free
Camera	Type: 1/4" CMOS
	View Area: 2'1" vertical x 3'1" horizontal at 20"
Temp. Rating	-4°~140°F (-20°~60°C)
Material	JO-DA: fire resistant PC + ABS plastic
	JO-DV: zinc die cast
	JO-DVF: stainless steel
Mounting	JO-DA: surface mount directly to wall or 1-gang box
	JO-DV: surface mount directly to wall
	JO-DVF: flush mount with included back box or surface mount with SBX-DVF
Wire Type	Door Station to Master Station or Expansion Station: 2-cond., low cap, non-shielded — use Aiphone #871802
Distance	Door Station to Master Station or Expansion Station: 330' (18 AWG)

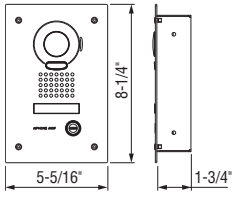
JO-DA



JO-DV



JO-DVF



JP Series Components

Video Master & Sub Master Stations



JP-4MED
Video Master Station
(included with all JPS box sets)
- 7" LCD touchscreen
- Picture Memory
- Removable media storage *(memory card not included)*
- Hands-free communication with handset for privacy



JP-4HD
Video Sub Master Station
- 7" LCD touchscreen
- Hands-free communication with handset for privacy

Features

- Video identification and monitoring with 7" touchscreen
- Hands-free communication with handset for privacy
- Door release button
- Optional service button
- PTZ and brightness control
- 8 selectable call tones
- Station partitioning with security code
- All Call to inside stations
- Door monitoring
- Continuous room monitoring

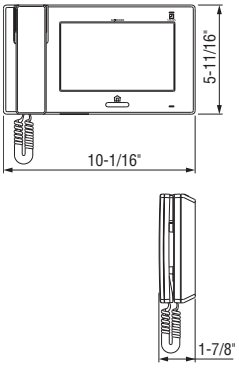
Features
(additional for JP-4MED)

- Camera position and zoom can be set for call-in
- Video out via supplied connector
- Picture Memory
- Security inputs for alerting stations

Specifications

Power Source	24V DC — use PS-2420UL
Consumption	Max. 340mA
Communication	Hands-free (VOX) or handset (full-duplex)
Video Display	7" LCD touchscreen
Picture Memory	Internal/Built-In: record max. 20 calls (6 images per call) with up to 5 calls protected from overwriting
	SD/SDHC card: record max. 1,000 calls (40 images per call) with up to 100 calls protected from overwriting
Door Release	N/O dry contact, 24V AC/DC, 500mA — use EL-12S (use RY-1824L for larger contact rating and use RY-3DL for 3 or 4 doors)
Mounting	Surface mount directly to wall or 1-gang box or desk mount using MCW-S/A
Wire Type	Door Station to Master Station: 2-cond., mid cap, solid, non-shielded — use Aiphone #871802
	Power Supply to Master Station: 2-cond., mid cap, solid, non-shielded — use Aiphone #871802
	Master Station to Adaptor: Cat-5e or Cat-6
	Adaptor to Sub Master Station: Cat-5e or Cat-6
Distance	Door Station to Master Station: 330'
	Master Station to Distribution Adaptor: 650'
	Distribution Adaptor to Sub Master Station: 165'
	Long Distance/CCTV Adaptor to Master Station: 330'
	Total Cumulative Between Inside Stations: 980'
	Power Supply to Master Station: 16' (22 AWG) 33' (18 AWG)
	Power Supply to Distribution Adaptor: 16' (22 AWG) 33' (18 AWG)

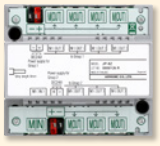
JP-4MED, JP-4HD



Long Distance/CCTV & Distribution Adaptors



JPW-BA
Long Distance/ CCTV Adaptor for Door Stations



JP-8Z
Distribution Adaptor for Video Sub Master Stations
(only required for homerun wiring methods)

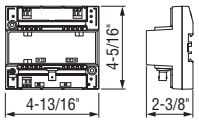
Features

- Extends wiring distance from door stations to master stations up to 980' max.

Specifications

Power Source	24V DC — use PS-2420UL
Capacity	One adaptor unit for each video door/sub master station located beyond the standard specified wire distance
Mounting	DIN rail (included)
Wire Type	JPW-BA: 2-cond., low cap, PE, solid, non-shielded — use Aiphone #871802
	JP-8Z: Cat-5e
Distance	JPW-BA to Door Station: 650'
	JPW-BA to Master Station: 330'
	JP-8Z to Master Station: 650'
	JP-8Z to Sub Master Station: 165'

JPW-BA, JP-8Z



Audio Door Station



GT-D
→ p. 69

Features
See p. 69

Specifications
See p. 69

Video Door Stations



JP-DA
Video Door Station
(included with JPS-4AED box set)
- PTZ camera
- Plastic chassis
- Weather resistant
- Surface mount



JP-DV
Video Door Station
(included with JPS-4AEDV box set)
- PTZ camera
- Zinc die cast cover
- Weather and vandal resistant
- Surface mount



JP-DVF
Video Door Station
(included with JPS-4AEDF box set)
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



JP-DVF-HID*
Card Access
Video Door Station
- HID® ProxPoint® Plus Proximity Card Reader
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



JP-DVF-RP10*
Card Access
Video Door Station
- HID® multiCLASS SE® Proximity Card Reader
- PTZ camera
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(back box included)*



Surface mount boxes available for flush mount stations! See p. 106

* *HID® stations require a 3rd party host. Power for card reader and door strike require additional wire.*

Features
- Digital PTZ camera provides clear video
- LED illumination automatically turns on in low light conditions

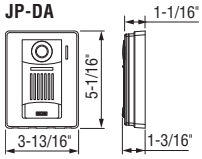
Features
(additional for JP-DA)
- Mounts directly to wall or 1-gang box
- LED backlit call button

Features
(additional for JP-DV, JP-DVF, JP-DVF-HID, JP-DVF-RP10)
- LED backlit nameplate

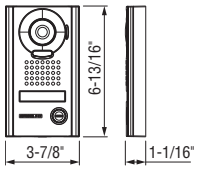
Specifications

Power Source	Supplied by Master Station
Communication	Hands-free
Camera	Type: 1/4" CMOS
	View Area: 100° vertical x 170° horizontal
Temp. Rating	-14°~140°F (-10°~60°C)
Material	JP-DA: fire resistant PC + ABS plastic
	JP-DV: zinc die cast
	JP-DVF, JP-DVF-HID, JP-DVF-RP10: stainless steel
Mounting	JP-DA: surface mount directly to wall or 1-gang box
	JP-DV: surface mount directly to wall
	JP-DVF: flush mount with included back box or surface mount with SBX-DVF
	JP-DVF-HID, JP-DVF-RP10: flush mount with included back box or surface mount with SBX-IDVFRA
Wire Type	Door Station to Master Station: 2-cond., low cap, non-shielded — use Aiphone #871802
Distance	Door Station to Master Station: 330'
	Door Station to Long Distance/CCTV Adaptor: 650'

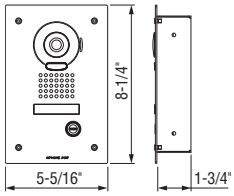
JP-DA



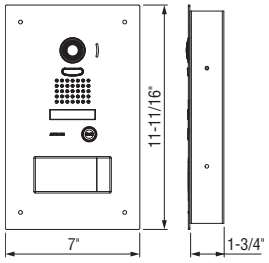
JP-DV



JP-DVF



JP-DVF-HID, JP-DVF-RP10



KB Series Components

Video & Audio Master Stations



KB-3MRD
Video Master Station
- 4" LCD screen
- Handset for privacy



KB-3HRD
Video Sub Master Station
- 4" LCD screen
- Handset for privacy



KB-3SD
Audio Sub Master Station
- Handset for privacy

Features
- All Call
- Chime and receiver volume control
- Optional selective door release with RY-3DL
- Two-way communication between inside stations

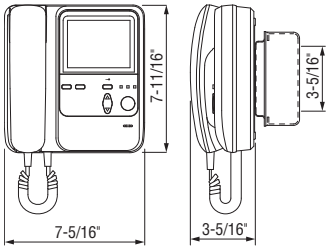
Features (additional for KB-3MRD)
- Video out to DVR via supplied connector

Features (additional for KB-3MRD, KB-3HRD)
- Video identification and monitoring with 4" screen
- Instant voice call-in with image
- Built-in illumination for low light conditions
- Selective Call

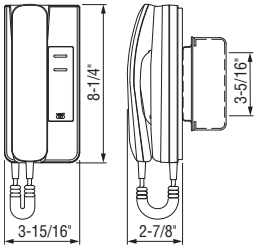
Specifications

Power Source	24V DC — use PS-2420UL
Communication	Handset (full-duplex)
Video Display	KB-3MRD, KB-3HRD: 4" LCD screen KB-3SD: N/A
Door Release	N/O dry contact, 12V AC, 400mA — use EL-12S (use RY-1824L for larger contact rating or RY-3DL for 2 or 3 doors)
Mounting	Surface mount directly to wall or desk mount using MCW-S/A
Wire Type	2-cond., mid cap, solid, non-shielded — use Aiphone #871802
Distance	Master Station to Door Station: 330' (22 AWG) 650' (18 AWG) Master Station to farthest Sub Master Station: 165' (22 AWG) 330' (18 AWG) Power Supply to Master Station: 16' (22 AWG) 33' (18 AWG) Power Supply to Sub Master Station: 16' (22 AWG) 33' (18 AWG)

KB-3MRD, KB-3HRD



KB-3SD



Video Door Stations



KB-DAR
Video Door Station
- Tilt camera
- Plastic chassis
- Weather resistant
- Surface mount
- Fits 1-gang box



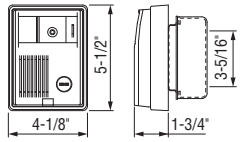
KB-DAR-M
Video Door Station
- Motion detector interface
- Tilt camera
- Plastic chassis
- Weather resistant
- Surface mount
- Fits 1-gang box

Features
- Tilt controlled camera
- Mounts directly to wall or 1-gang box
- Locator LED backlit on CALL button
- LED illumination automatically turns on in low light conditions

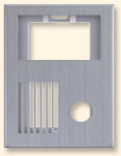
Specifications

Power Source	Supplied by Master Station
Communication	Hands-free
Camera	Type: 1/4" CCD View Area: 3' 8"– 7' 1" vertical x 2' horizontal at 20"
Temp. Rating	14°~140°F (-10°~60°C)
Material	Fire resistant ABS plastic
Mounting	Surface mount directly to wall
Wire Type	Door Station to Master Station: 2-cond., low cap, non-shielded — use Aiphone #871802
Distance	Door Station to Master Station: 330' (22 AWG) 650' (18 AWG)

KB-DAR, KB-DAR-M



Housing Panel for KB-DAR & KB-DAR-M



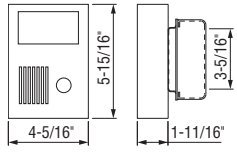
KA-DGR
Surface Mount Housing Panel for KB-DAR or KB-DAR-M

Features
- Stainless steel construction
- Weather resistant for outdoor use
- Can be added to any existing KB-DAR or KB-DAR-M video door station

Specifications

Material	Stainless steel
Mounting	Surface mount directly to wall

KA-DGR



Audio Door Stations



AX-DM
→ p. 64



IF-DA
→ p. 73



IE-JA
→ p. 73



IE-SS/A
→ p. 73



IE-SSR
→ p. 73

Features (AX-DM)
See p. 64

Features (IE Series Door Stations)
See p. 73

Specifications (AX-DM)
See p. 64

Specifications (IE Series Door Stations)
See p. 73

Auxiliary Light Control Relay



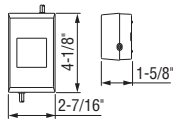
MAW-B
Auxiliary Light Control Relay

Features
- Used for turning on an auxiliary light to spotlight a caller at the entrance
- Light is illuminated when the door call button is pushed and during visual monitoring mode

Specifications

Power Source	Supplied by Master Station
Contact Rating	Dry closure contact for general lighting of less than 100W

MAW-B



LEF Series Components

Audio Master Stations



LEF-3
3-Call Audio Master Station
- Surface mount



LEF-3L
3-Call Audio Master Station
- Selective door release
- Surface mount



LEF-3C
3-Call Audio Master Station
- All Call button *(requires BG-10C)*
- Semi-flush mount



LEF-5
5-Call Audio Master Station
- Selective door release
- Surface mount



LEF-5C
5-Call Audio Master Station
- All Call button *(requires BG-10C)*
- Selective door release
- Semi-flush mount



LEF-10
10-Call Audio Master Station
- Selective door release
- Surface mount



LEF-10S
10-Call Audio Master Station
- All Call button *(requires BG-10C)*
- Selective door release
- Surface mount



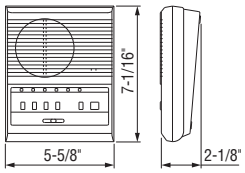
LEF-10C
10-Call Audio Master Station
- All Call button *(requires BG-10C)*
- Selective door release
- Semi-flush mount

Features
- Mix and match a variety of stations
- Complements CCTV system
- Push-to-talk communication
- LED and call-tone indicators
- Selective Call and Optional All Call

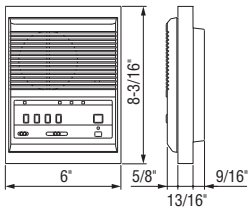
Specifications

Power Source	12V DC — use PS-1208UL (use PS-1225UL if installing BG-10C)
Consumption	300mA
Output	800mW
Communication	Push-to-talk (simplex)
Door Release	N/O dry contact, 24V DC, 1A — use 1 RY-PA per door being released
Mounting	Wall or desk mount
Wire Type	Variable wire types – see table on page 48
Distance	Sub Station to farthest Master Station: 650' (22 AWG) 1,600' (18 AWG)

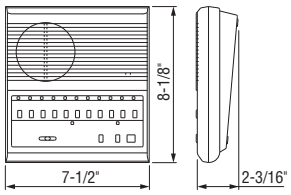
LEF-3, LEF-3L



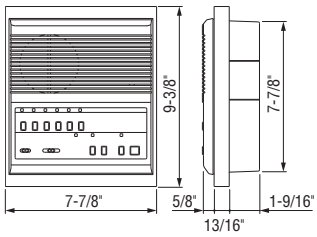
LEF-3C



LEF-5, LEF-10, LEF-10S



LEF-5C, LEF-10C



NOTE: *Compatible ceiling speaker and paging adaptor are located in the Paging Accessories section (p.109).*

Audio Sub Master Stations



LEF-1C
Audio Sub Master Station
(requires BG-10C)
- All Call button
- Semi-flush mount



LE-A
Audio Sub Station
- Surface mount



LE-AN
Privacy Audio Sub Station
- Surface mount
- Privacy button



LE-B
Audio Sub Station
- Semi-flush mount



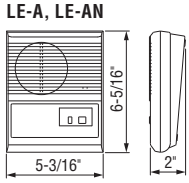
LE-BN
Privacy Audio Sub Station
- Semi-flush mount
- Privacy button

Features
- Provides internal communication to master stations

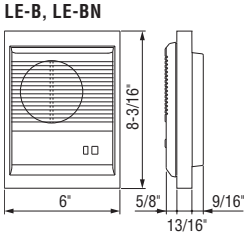
Specifications

Power Source	Supplied by Master Station
Communication	Push-to-talk (simplex)
Mounting	Wall or desk mount
Wire Type	Variable wire types – see table on page 48
Distance	Sub Station to farthest Master Station: 650' (22 AWG) 1,600' (18 AWG)

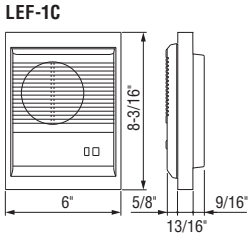
LE-A, LE-AN



LE-B, LE-BN



LEF-1C



LEF Series Components (continued)

Audio Door Stations



LE-D
Audio Door Station
- Plastic chassis
- Weather resistant
- Surface mount
- Fits 1-gang box



LE-DA
Audio Door Station
- Stainless steel cover
- Weather resistant
- Flush mount *(fits 2-gang box)*



LE-SS-1G
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 1-gang box – internal door station dimensions are 2-15/16" H x 1-15/16" W x 1-13/16" D)*



LE-SS/A
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*



LE-SSR
Audio Door Station
- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount *(fits 2-gang box)*



Surface mount boxes available for flush mount stations!
See p. 106



LS-NVP/C
Audio Door Station
- Powder-coated steel panel
- Weather and vandal resistant
- Flush mount *(fits 3-gang box)*

Features (LE-D)
- Weather resistant for outdoor use
- Push button to call master station(s)
- Hands-free communication when master answers
- Compact surface mount design
- Mounts directly to wall or 1-gang box

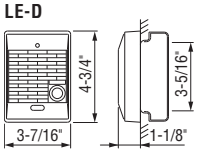
Features (LE-DA)
- Weather resistant for outdoor use
- Push button to call master station(s)
- Hands-free communication when master answers
- Slim flush mount design with stainless steel cover
- Mounts to 2-gang box or ring

Features (LE-SS-1G, LE-SS/A, LE-SSR, LS-NVP/C)
- Weather and vandal resistant
- Stainless steel, mechanical call button (LE-SS/A, LS-NVP/C)
- Red mushroom call button (LE-SSR)
- Moisture and puncture resistant speaker
- 3-layer steel baffle protects speaker from tampering
- Hands-free communication when master answers
- Pigtail wires for connection to master station
- Includes tamper proof mounting screws

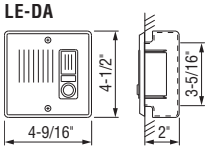
Specifications

Power Source	Supplied by Master Station
Communication	Hands-free
Temp. Rating	14°~140°F (-10°~60°C)
Material	LE-D: fire resistant ABS plastic
	LE-DA: ABS plastic with stainless steel cover
	LE-SS-1G, LE-SS/A, LE-SSR: stainless steel
	LS-NVP/C: carbon steel with powder-coated white baked epoxy finish
Mounting	LE-D: surface mount directly to wall
	LE-DA: flush mount with included back box or surface mount with SBX-2G
	LE-SS-1G: flush mount with 1-gang box/ring or surface mount with SBX-1G
	LE-SS/A, LE-SSR: flush mount with 2-gang box/ring or surface mount with SBX-2G/A
	LS-NVP/C: flush mount with 3-gang box/ring or surface mount with SBX-NVP/A
Wire Type	Door Station to LEF Master Station: 3-cond., overall shield — use Aiphone #822203
	Door Station to LEM Master Station: 2-cond., overall shield — use Aiphone #822202 or #821802
Distance	Door Station to Master Station: 650' (22 AWG) 1,600' (18 AWG)

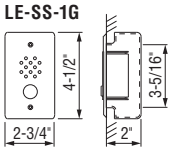
LE-D



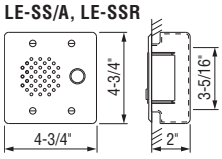
LE-DA



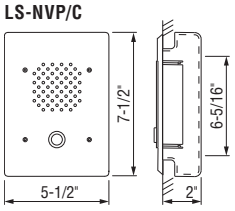
LE-SS-1G



LE-SS/A, LE-SSR



LS-NVP/C



Door Release Relay



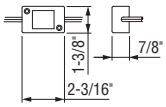
RY-PA
Door Release Relay

Features
- Door release activation
- N/O contact output

Specifications

Power Source	12V DC
Contact Rating	24V DC, 1A or 240V AC, 300mA

RY-PA



All Call, Music, & Chime Adaptor



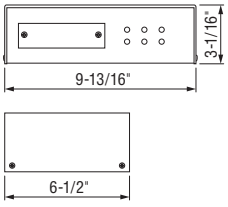
BG-10C
All Call, Chime, and Music Adaptor
(1 BG-10C is required for up to 11 stations)

Features
- Music ON/OFF switch plus music and chime selector switch for each station
- Chime volume control plus music, bass, and treble controls
- All Call pre-tone volume and speech volume controls
- Terminals for power supply, music and door station connection and LEF-C network (All Call and music receiving)
- Provides All Call and door chime for LEF-C and LEF-10S systems
- Background music input

Specifications

Power Source	All Call, Music, Chime: 12V DC, 2.5A
	Standby: 100mA
All Call Transmit	From LEF-1C, LEF-3C, LEF-5C, LEF-10C, LEF-10S
All Call Receive	All LEF Master Stations
BGM Input	AUX R, E and AUX L, E
Controls	Music ON/OFF, 11 selector switches of music and chime (off or chime only
Wire Type	BG-10C to LEF-10C: 19 wires max. — use Aiphone #822220
	To each LE-D or LE-DA: 3 wires — use Aiphone #822203

BG-10C



Matching Transformer & Terminal Boxes



LT-1
20Ω-to-8Ω
Matching Transformer



LEW-5, LEW-10, LEW-10S
Terminal Box

Features (LT-1)
- Matches impedance when using an 8Ω speaker
- Provides better sound quality

Features (LEW-5, LEW-10, LEW-10S)
- Remote terminal box for wire organization to masters mounted on a table or desk

LEM Series Components

Audio Master Stations



LEM-1
1-Call Audio
Master Station
(for applications using 1 door/sub station)
- Surface mount



LEM-3
3-Call Audio
Master Station
(for applications using 2 or 3 door/sub stations)
- Surface mount

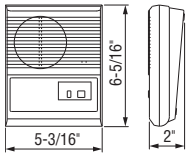
Features
- Voice volume control
- Push-to-talk communication

NOTE: *Compatible ceiling speaker and paging adaptor are located in the Paging Accessories section (p. 109).*

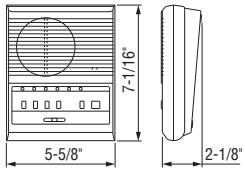
Specifications

Power Source	6V DC — use SKK-620C
Consumption	200mA
Output	350mW
Communication	Push-to-talk (simplex)
Door Release	N/A
Mounting	Wall or desk mount
Wire Type	Door Station or Sub Station to Master Station: 2-cond., overall shield — use Aiphone #822202 or #821802
Distance	Door Station or Sub Station to Master Station: 650' (22 AWG) 1,570' (18 AWG)

LEM-1



LEM-3



Audio Sub Master Stations



LE-A → p. 95
LE-AN → p. 95
LE-B → p. 95
LE-BN → p. 95

Features
See p. 95

Specifications
See p. 95

Audio Door Stations



LE-D → p. 96
LE-DA → p. 96
LE-SS-1G → p. 96
LE-SS/A → p. 96



LE-SSR → p. 96



LS-NVP/C → p. 96

Features
See p. 96

Specifications
See p. 96

Matching Transformer



LT-1 → p. 96

Features
See p. 96

LEM-1DL Series Components

Audio Master Stations



LEM-1DL
Audio Master Station
(requires 1 DAK-2S per every 2 master stations in the system)
- Door release button



LEM-1DLC
Audio Master Station
- Multi-master *(max. 4)*
- Door release button
- Occupied LED

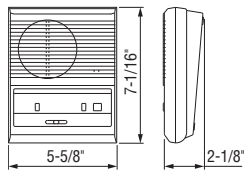
Features
- Door release (N/O contact)
- Calling and 2-way communication with door station
- Call tone and voice volume control

NOTE: *Compatible door stations are located in the LEF Series Components (p. 96). Compatible dual master adaptor kit is located in the Relay, Adaptor, & Surge Arrestor Accessories section (p. 110).*

Specifications

Power Source	12–16V AC — use PT-1210NA or 12–24V DC — use PS-1208UL
Consumption	4W (16V AC) max., 200mA (24V DC) max.
Output	100mW
Communication	Push-to-talk (simplex)
Door Release	N/O dry contact, 30V AC/DC, 1A — use EL-12S
Mounting	Wall or desk mount
Wire Type	Door Station to Master Station: 2-cond., overall shield — use Aiphone #822202 or #821802 Between LEM-1DLCs: 3-cond., overall shield — use Aiphone #822203 or #821803
Distance	Door Station to farthest Master Station: 650' (22 AWG) 1,570' (18 AWG)

LEM-1DL, LEM-1DLC



MC Series Components

Audio Master Station



MC-60/4A
Audio MarketCom
Master Station

- 4 communication channels with LED indicators
- Easy access page button
- Handset for privacy
- Wall mount

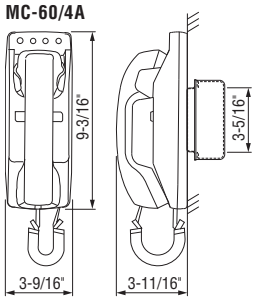
Features

- Selective 4 talk channels with in-use LED's
- Crosstalk reduction circuit
- Reinforced modular coil cord

Specifications

Power Source	24V DC — use PS-2420UL
Consumption	70mA (paging mode)
Communication	Handset (full-duplex)
Mounting	Surface mount directly to wall
Wire Type	7 wires in loop, non-twisted, low capacitance, PE insulation — use Aiphone #852207
Distance	Paging Adaptor to farthest Master Station on block: 1,700' (22 AWG) 4,000' (18 AWG)
	Total cumulative wiring between Paging Adaptor and Master Station: 5,000' (22 AWG)

MC-60/4A



NOTE: *Compatible ceiling speaker and paging amplifiers are located in the Paging Accessories section (p. 109).*

Paging Adaptor



MC-A/A
Paging Adaptor
for MC Series

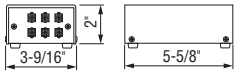
Features

- Separate music and paging controls: bass, treble and volume
- Paging pre-tone volume control
- Connects to standard paging amplifier
- Background music can be included and automatically mutes during page

Specifications

Power Source	24V DC — use PS-2420UL
Input	AUX 10kΩ, 0.3V – 0.5V
Music Output	Range 100mV – 1.2V, 10kΩ or less

MC-A/A



NHX Series Components

Central Control Unit



NHX-80X
Central Control Unit



NHR-30K
30-Call Add-On
Truck Card
(required for NHX-30G)

Features (NHX-80X)

- UL 1069 Listed
- Controls system functions with microprocessor
- All wire terminations are made inside with easy "screwless" wire connections

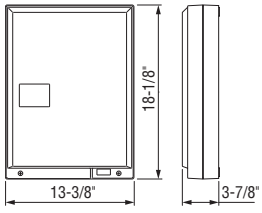
Features (NHR-30K)

- Provides additional capacity for NHX-30G add-on selector

Specifications (NHX-80X)

Power Source	24V DC — use two PS-2420ULs
Wire Type	Sub / Duty Station to Central Control Unit: 4 twisted pair, low cap, PE, overall shield — use Aiphone #862208
	Master Station to Central Control Unit: 5 twisted pair, low cap, PE, overall shield — use Aiphone #862210
Distance	Sub Station to Central Control Unit: 165' (22 AWG)
	Duty Station to Central Control Unit: 65' (22 AWG)
	Master Station to Central Control Unit: 65' (22 AWG)

NHX-80X



NHX Series Components (continued)

Master Station & Add-On Selector



NHX-50M
50-Call Audio
Master Station

NHX-30G
30-Call Add-On
Selector
(requires NHR-30K to be installed into NHX-80X)

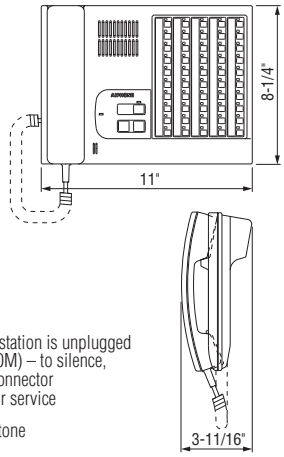
Features (NHX-50M)
- 3 call levels with distinct tone and light signalling for routine, urgent, and cord-out trouble calls
- Auto-connect to next call-in priority (no need to select station)
- Alert tone sounds if power or data wire is interrupted, or if handset is off-hook for more than 90 sec.
- Tone off button

Features (NHX-30G)
- Plugs into NHX-50M with supplied connectors
- Expands NHX-50M to an 80-call master station

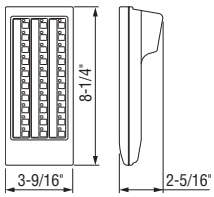
Specifications (NHX-50M)

Power Source	Supplied by Central Control Unit (NHX-80X)
Communication	Handset (VOX) or push-to-talk (simplex)
Call-In Priority	1) Cord-out trouble call 2) Urgent bathroom call and NHR-3TS common area bathroom/staff call 3) Routine call (sub station call-ins on standby connected according to urgency level and time of call)
Warning Tones	1) Line-off trouble alert when station is unplugged (buzzer activated at NHX-50M) – to silence, plug in CN1047 shorting connector inside NHX-80X and call for service 2) 90 sec. elapse timer – call tone goes up to HIGH level 3) 90 sec. off-hook timer – steady tone will notify handset is off-hook
Wire Type	Master Station to Central Control Unit: 5 twisted pair, low cap, PE, overall shield — use Aiphone #862210
Distance	Master Station to Central Control Unit: 65' (22 AWG)

NHX-50M



NHX-30G



Sub & Duty Stations



NH-1SA/A
Single-Jack Bedside
Audio Sub Station



NH-2SA/A
Dual-Jack Bedside
Audio Sub Station



NHR-SP
Audio Duty
Station



NHR-3TS
Dual Corridor
Light Sub Station
(required for NHR-7A if NH-1SA/A or NH-2SA/A are not used)

One bedside call button is required per sub station jack



NHR-8C
Bedside Call
Button

Features
(NH-1SA/A, NH-2SA/A)
- Bedside sub station for calling and communication
- Single-jack (NH-1SA/A) and dual-jack (NH-2SA/A) for NHR-8C bedside call button(s)
- Hands-free communication
- Flush mount with standard 2-gang box

Features (NHR-SP)
- Alerts staff when a master station receives a call (urgent calls override routine calls)
- Acknowledges any station call with tone and blinking LED (use NHX-50M to identify caller or to answer call)
- Ideal for break rooms, hallways, or locations without a master station
- Flush mount with standard 2-gang box

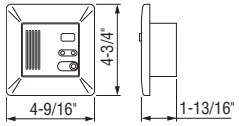
Features (NHR-3TS)
- Provides call from common area, restrooms, or staff location
- Allows NHR-7A pull cord to be used without the need for a bedside sub station
- Two corridor lights indicate call location
- Wires the same as a bedside sub station
- Flush mount with standard 2-gang box
- Stainless steel cover

Features (NHR-8C)
- Button activates routine call at master
- Cord-out activates urgent call at master

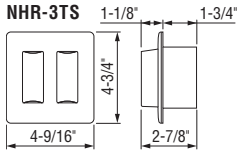
Specifications (NH-1SA/A, NH-2SA/A, NHR-SP, NHR-3TS)

Power Source	Supplied by Central Control Unit (NHX-80X)
Wire Type	Sub Station or Duty Station to Central Control Unit: 4 twisted pair, low cap, PE, overall shield — use Aiphone #862208
Distance	Sub Station to Central Control Unit: 165' (22 AWG) Duty Station to Central Control Unit: 65' (22 AWG)

NH-1SA/A, NH-2SA/A, NHR-SP



NHR-3TS



Accessories



NHR-7A
Urgent Call
Pull Cord

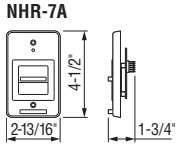


NHR-4A/A
LED Corridor Light
(red and amber LEDs)

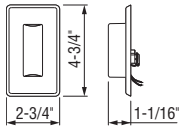
Features (NHR-7A)
- Latching call switch
- Waterproof for bathroom areas
- Durable and strong nylon pull cord with pendant
- Can be used without cord as urgent call station (with NHR-3TS)
- LED "call placed" indicator
- Flush mount with standard 1-gang box

Features (NHR-4A/A)
- Amber lamp for bedside call, red lamp for bathroom call
- Easy wiring to bedside sub station
- Flush mount with standard 1-gang box

NHR-7A



NHR-4A/A



NIM Series Components

Master Stations



NIM-20B
20-Call Audio Master Station
- Supports up to 20 door stations, sub stations, ceiling speakers, and wall jacks
- Selective Call, Group Call, and All Call
- Volume controls
- Handset for privacy

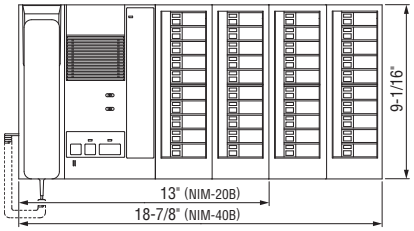


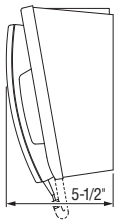
NIM-40B
40-Call Audio Master Station
- Supports up to 40 door stations, sub stations, ceiling speakers, and wall jacks
- Selective Call, Group Call, and All Call
- Volume controls
- Handset for privacy

Specifications

Power Source	48V DC — use IS-PU-UL
Communication	Handset (VOX) or push-to-talk (simplex)
Door Release	N/A
Material	Panel: fire resistant ABS plastic Chassis: SPCC
Wire Type	Door Station, Sub Station, Ceiling Speaker, or Wall Jack to Master Station: 3 cond. overall shield — use Aiphone #821803
Distance	Door Station or Sub Station to Master Station: 650' (18 AWG) Power Supply to Master Station: 33' (18 AWG)

NIM-20B, NIM-40B





Door Station

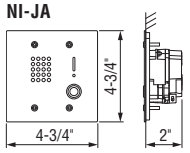


NI-JA
Audio Door Station
- Stainless steel panel
- Weather and vandal resistant
- Flush mount
  (fits 2-gang box)

Specifications

Power Source	Supplied by Master Station
Communication	Hands-free
Temp. Rating	14°~140°F (-10°~60°C)
Material	Stainless steel
Mounting	Flush mount with 2-gang box or surface mount with SBX-2G/A
Wire Type	Door Station to Master Station: 3 cond. overall shield — use Aiphone #821803
Distance	Door Station to Master Station: 650' (18 AWG)

NI-JA



Sub Stations



NI-BA
Audio Sub Station
- Surface mount

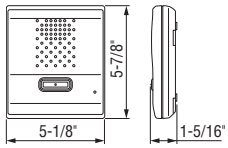


NI-RC
Bedside Sub Station
- Handheld

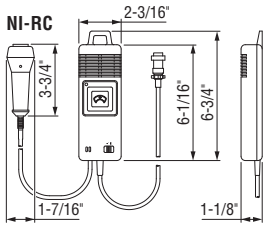
Specifications

Power Source	Supplied by Master Station
Communication	Hands-free
Material	Plastic
Mounting	NI-BA: surface mount directly to wall or desk mount NI-RC: hang from hook on NIR-HPF
Wire Type	Sub Station to Master Station: 3 cond. overall shield — use Aiphone #821803
Distance	Sub Station to Master Station: 650' (18 AWG)

NI-BA



NI-RC



Ceiling Speaker & Ceiling Microphone



NI-LB
Ceiling Speaker
(use NI-SB or NIR-MB for hands-free reply)
- Call-in LED
- Indoor use
- Flush mount

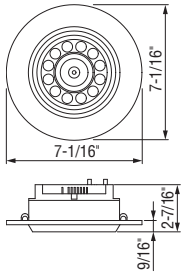


NI-SB
Ceiling Microphone
(for use with NI-LB)
- Stainless steel panel
- Hands-free reply
- Indoor use
- Flush mount

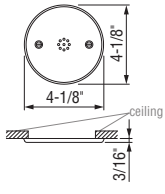
Specifications

Power Source	Supplied by Master Station
Communication	NI-LB: hands-free (receive) NI-SB: hands-free (transmit)
Material	NI-LB: ABS plastic NI-SB: stainless steel
Mounting	Ceiling flush mount
Wire Type	Ceiling Speaker to Master Station: 3 cond. overall shield — use Aiphone #821803 NIR-MB to Ceiling Speaker: 4 cond. overall shield — use two runs of #821802

NI-LB



NI-SB



Components

NIM Series Components (continued)

Call Buttons & Wall Jacks



NIR-6
Call Button
- Flush mount *(fits 1-gang box)*



NIR-8
Bedside Call Button *(requires NIR-1, NIR-MB, or NIR-7BS)*
- Handheld



NIR-1
Wall Jack for NIR-8
- Flush mount *(fits 1-gang box)*



NIR-MB
Wall Jack with Mic for NIR-8
- Flush mount *(fits 1-gang box)*



NIR-7BS
Wall Jack with LED Call Indicator for NIR-8
- Flush mount *(fits 1-gang box)*



NIR-HP
Wall Jack for NI-RC
- Flush mount *(fits 1-gang box)*

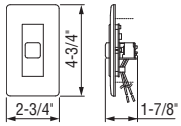


NIR-HPF
Wall Jack for NI-RC
- Includes hook to hang NI-RC
- Flush mount *(fits 2-gang box)*

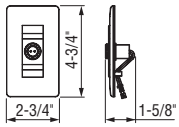
Specifications

Power Source	Supplied by Master Station
Material	Fire resistant ABS plastic
Mounting	NIR-6, NIR-1, NIR-MB, NIR-7BS, NIR-HP: flush mount with 1-gang box NIR-HPF: flush mount with 2-gang box
Wire Type	Variable wire types – refer to installation manual

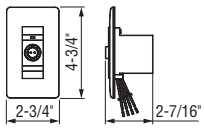
NIR-6



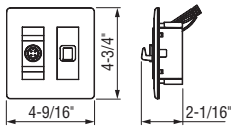
NIR-1



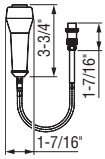
NIR-7BS



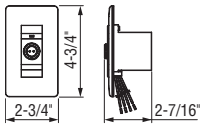
NIR-HPF



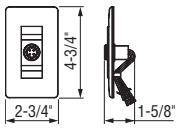
NBR-8A



NIR-MB



NIR-HP



Accessories



NIR-2
Call Reset Button



NIR-4
Single Room Corridor Call Light



NIR-4S
Multi-Room Corridor Call Light



NIR-4BZ
Corridor Light with Tone Indicator



NIR-42
Corridor Light with Call Reset Button



NIR-31
Corridor Light with 1 Magnetic Nameplate



NIR-32
Corridor Light with 2 Magnetic Nameplates



NIR-34
Corridor Light with 4 Magnetic Nameplates



NIR-7W
Bathroom Call Button



NIR-7HW
Bathroom Call Button with Pull Cord



NI-SOFT
Call Event Log PC Software *(includes RS-232 cable, approx. 40")*

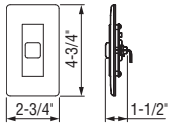
Specifications (NIR-2, NIR-4, NIR-4S, NIR-4BZ, NIR-42, NIR-31, NIR-32, NIR-34, NIR-7W, NIR-7HW)

Power Source	Supplied by Master Station
Material	Fire resistant ABS plastic
Mounting	NIR-2, NIR-4, NIR-4S, NIR-7W, NIR-7HW: flush mount with 1-gang box NIR-4BZ, NIR-42: flush mount with 2-gang box NIR-31, NIR-32, NIR-34: surface mount directly to wall
Wire Type	Variable wire types – refer to installation manual

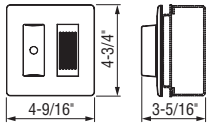
Specifications (NI-SOFT)

Software	OS: Windows® 7 (32/64 bit), or Windows® 8 (32/64 bit), Windows® 10 Processor: 3GHz or faster Memory: 2GB of RAM Hard Drive: 100MB or more

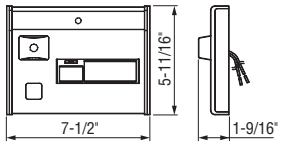
NIR-2



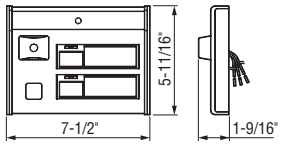
NIR-4BZ



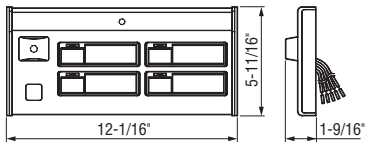
NIR-31



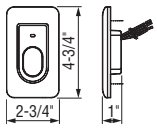
NIR-32



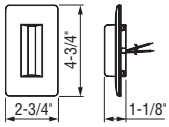
NIR-34



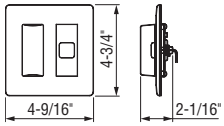
NIR-7W, NIR-7HW



NIR-4, NIR-4S



NIR-42



TD-H Series Components

Audio Master Stations



TD-1H/B
1-Call Audio
Master Station
(cannot be used for door answering)
- Handset for privacy



TD-3H/B
3-Call Audio
Master Station
- Handset for privacy



TD-6H/B
6-Call Audio
Master Station
- Handset for privacy



TD-12H/B
12-Call Audio
Master Station
- Handset for privacy



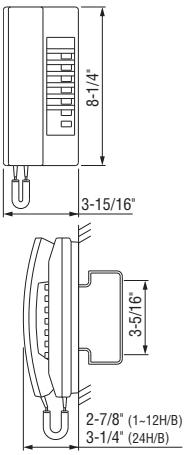
TD-24H/B
24-Call Audio
Master Station
- Handset for privacy

Features
- Multiple talk paths for communication and paging
- Handset cradle for wall mounting can be reversed for desk use
- Station-select break-in call

Specifications

Power Source	12V DC — use PS-1225UL
Consumption	70mA per station
Communication	Handset (full-duplex)
Door Release	N/O dry contact, 30V AC/DC, 1A (at DE-UR)
Mounting	Desk mount or surface mount directly to wall or 1-gang box
Wire Type	TD-1H/B: 6 cond., overall shield — use Aiphone #822206
	TD-3H/B, TD-6H/B: 10 cond., overall shield — use Aiphone #822210
	TD-12H/B, TD-24H/B: 16 cond., overall shield — use Aiphone #812216 (two runs of 812216 are required for full functionality of the TD-24H/B)
Distance	Between Master Stations: 2,000' (22 AWG) 4,800' (18 AWG)

TD-nH/B
(n = 1, 3, 6, 12, 24)



Door Station Adaptor



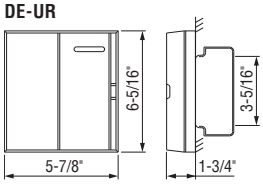
DE-UR
Door Station Adaptor

Features
- Activates door release
- Call tone modulating circuits (2-1/2 sec. timed)
- Includes door release control terminals

Specifications

Power Source	12V DC – supplied by Master Station
Consumption	120mA
Terminals	30V AC/DC, 1A
Wire Type	Door Station to Adaptor: 2 cond., overall shield — use Aiphone #822202
	Adaptor to Master Station: 6 cond., overall shield — use Aiphone #822206
Distance	Door Station to Adaptor: 500' (22 AWG) 1,200' (18 AWG)

DE-UR



Components

TD-H Series Components (continued)

Audio Door Stations



AX-DM
→ p. 64



IF-DA
→ p. 73



IE-JA
→ p. 73



IE-SS/A
→ p. 73



IE-SSR
→ p. 73

Features (AX-DM)
See p. 64

Features (IF-DA, IE-JA, IE-SS/A, IE-SSR)
See p. 73

Specifications (AX-DM)
See p. 64

Specifications (IF-DA, IE-JA, IE-SS/A, IE-SSR)
See p. 73

Paging Adaptors



PD-1
Zone Paging Adaptor
for TD-H Series



PD-2
Zone Paging / Talkback
Adaptor for TD-H Series

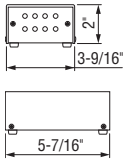
Features

- Provides paging from TD-H handsets to an overhead PA system
- Single or multi-zones, one station capacity per zone
- PAGE button located in TD-H handsets
- Music source connection, automatically mutes when paging

Specifications

Power Source	PD-1: 12V DC, 30mA – supplied by Master Station
	PD-2: 12V DC, 48mA (talkback) – supplied by Master Station
Output	5kΩ, 1.5V max.
Paging and Music Controls	Treble: 12dB at 10kHz
	Bass: 12dB at 100kHz
Amp. Input	AUX or PHONO 100K – 500kΩ, 0.12V – 0.5V
Music Input	17kΩ, 0.3V, 1kHz for full output
Tuner Output	Audio output range: 100mV – 1.2V, 10kΩ or less
Talkback Gain	40dB, 1kHz at max. volume
Environmental Noise	Less than 80dB (phono)
Wire Type	Adaptor to Amplifier: 2-cond., overall shield — use Aiphone #822202
	Adaptor to Master Station: 3-cond. overall shield — use Aiphone #822203

PD-1, PD-2



NOTE: *Compatible ceiling speaker and paging amplifiers are located in the Paging Accessories section (p. 109).*

Terminal Box



TDW-nA
Terminal Box for TD-nH/B
(n=1, 3, 6, 12 or 24)

Features

- Remote terminal box for wire organization to masters mounted on a table or desk

Accessories



Access Control Accessories

Stand-Alone Access Control Keypads



AC-10S
Stand-Alone Access Control Keypad
- Body style matches JF-DV, JK-DV, JO-DV, and JP-DV
- Zinc die cast cover
- Surface mount



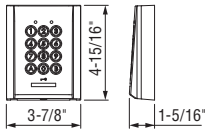
AC-10F
Stand-Alone Access Control Keypad
- Zinc die cast panel
- Flush mount

Features
- Access control with up to 100 unique user codes
- Can be used as a stand-alone access control device
- Compact size in a stylized design
- 12-digit backlit keypad
- Easy to install

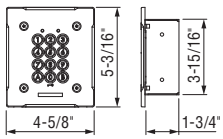
Specifications

Power Source	12–24V AC/DC, 100mA (AC) 70mA (DC)
Output Rating	2 Form C dry contacts, 24V AC/DC, 3A (resistive), 1A (inductive)
Temp. Rating	-4°~140°F (-20°~60°C)
Material	Zinc die cast
Mounting	AC-10S: surface mount directly to wall AC-10F: flush mount with included back box

AC-10S



AC-10F



Call Chime Accessory

Call Extension Speaker



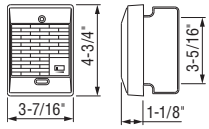
IER-2
Call Extension Speaker for DB Series, JF Series, JK Series, JO Series, JP Series, KB Series, or NIM Series

Features
- Announces chime tone only
- Adjustable volume (3 positions)
- Indoor mounting

Specifications

Material	ABS plastic
Mounting	Surface mount directly to wall or 1-gang box
Wire Type	Single pair of wires, non-polarized

IER-2



Door Release Accessories

Electric Door Strike



EL-12S
Electric Door Strike for Wood Frames
(requires PT-1210NA unless used with DA or DB Series)



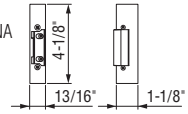
PT-1210NA
12V AC Transformer
→ p.111

Features
- Controlled by N/O contact or voltage output
- Includes both flush mount plate (comes attached) and surface mount plate
- Can be used with AX Series, C-123L/A Set, C-123LW Set, DA-1DS, DA-2DS, DA-4DS, IE-8 Series, IS Series, IX Series, JF Series, JO Series, JP Series, KB Series, LEF Series, LEM-1DL Series, or LEM-1DLC

Specifications

Power Source	12V AC/DC, 125mA (AC) 200mA (DC) — use PT-1210NA
Rated Resistance	DC 60Ω
Break-In Resistance	4,000 N
Temp. Rating	5°~140°F (-15°~60°C)
Material	Jaw/Body: zinc die cast Plate: steel

EL-12S



Door Release Adaptor



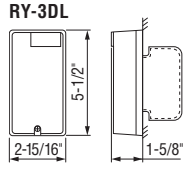
RY-3DL
Selective Door Release Adaptor for JF Series, JP Series, or KB Series

Features
- Selective door release with one button
- Door release contacts release the door where communication is established
- Normally open (N/O) contacts for electric strike
- Normally closed (N/C) contacts for magnetic locks

Specifications

Power Source	Shared with Master Station — use PS-1820UL (JF Series) or PS-2420UL (JP Series or KB Series)
Contact Rating	3 Form C dry contacts, 50V AC, 1A 30V DC, 1A
Distance	Master Station to Door Release Adaptor: 165' (22 AWG) 330' (18 AWG)

RY-3DL



Form C Door Release Relays



RY-1824L
Form C Door Release Relay for AX Series, JF Series, JO Series, JP Series, or KB Series

Features
- Normally open (N/O) contact with high current rating for door strikes
- Normally closed (N/C) contact with high current for magnetic locks
- Use with any 18-24V system that requires door release

Specifications

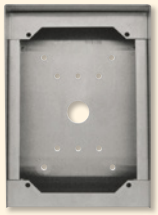
Power Source	Supplied by Master Station or CEU
Relay Input	18-24V DC, red and black wires, 22AWG
Relay Output	Brown, yellow, and orange wires, 18AWG
Output Rating	30V DC, 5A 250V AC, 8A
Wire Type	2-cond. to door release and 2-cond. to strike with power for strike wired in system
Dimensions	1-7/16" H x 13/16" W x 7/16" D (with wires extending approx. 7-1/2")

Mounting Accessories

Surface Mount Boxes



SBX-ACE
Surface Mount Box for AX-DM, GT-D, IF-DA, IX-BA, IX-DA, JF-D, JF-DA, JO-DA, JP-DA, KB-DAR, or KB-DAR-M and one Access Control Device



SBX-DVF
Surface Mount Box for JF-DVF, JK-DVF, JO-DVF, or JP-DVF



SBX-AXDVF
Surface Mount Box for AX-DVF



SBX-DVF-P
Surface Mount Box for AX-DVF-P, JF-DVF-HID, JK-DVF-AC, or JK-DVF-HID



SBX-IDVF
Surface Mount Box for IS-DVF, IS-IPDVF, IS-SS, IX-DVF, or IX-SSA



SBX-ISDVFP
Surface Mount Box for IS-DVF-HID, IS-DVF-RP10, IS-IPDVF-HID, or IS-IPDVF-RP10



SBX-IDVFRA
Surface Mount Box for IS-DVF-2RA, IS-DVF-2RA-FR, IS-SS-2RA-R, IS-SS-RA-R, IX-DVF-2RA, IX-DVF-2RA-FR, IX-DVF-RA, IX-DVF-RA-FR, IX-DVF-P, IX-SSA-2RA, IX-SSA-2RA-FR, IX-SSA-RA, IX-SSA-RA-FR, JP-DVF-HID, or JP-DVF-RP10



SBX-1G
Surface Mount Box for LE-SS-1G



SBX-2G/A
Surface Mount Box for IE-JA, IE-SS/A, IE-SSR, IS-SS-2G, IX-SS-2G, LE-DA, LE-SS/A, LE-SSR, or NI-JA



SBX-NVP/A
Surface Mount Box for IX-NVP or LS-NVP/C

Features (SBX-ACE)
- Vandal resistant
- Hood provides weather resistance
- Includes blank stainless steel cover for wide range of mounting options
- Openings at bottom allow for moisture drainage

Features (SBX-DVF, SBX-AXDVF, SBX-DVF-P, SBX-IDVF, SBX-ISDVFP, SBX-IDVFRA)
- Hood provides weather resistance
- Includes space inside for wiring
- Mounts directly to wall
- Openings at bottom allow for moisture drainage

Features (SBX-1G)
- Weather resistant
- Includes space inside for wiring
- Mounts directly to wall surface

Features (SBX-2G/A)
- Weather resistant
- Includes space inside for wiring
- Mounts to 1-gang box or ring
- Can mount directly to wall surface
- Includes hardware for mounting intercom

Features (SBX-NVP/A)
- Weather resistant
- Includes space inside for wiring
- Mounts to 1-gang box or ring
- Can mount directly to wall surface
- Powder-coated white baked epoxy finish

Specifications

Material
SBX-ACE, SBX-DVF-P, SBX-IDVF, SBX-ISDVFP, SBX-IDVFRA, SBX-1G, SBX-2G/A: 18GA stainless steel

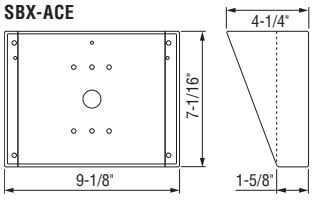
SBX-DVF, SBX-AXDVF: 16GA stainless steel (outer layer), 18GA stainless steel (inner layer)

SBX-NVP/A:1/8" rolled steel

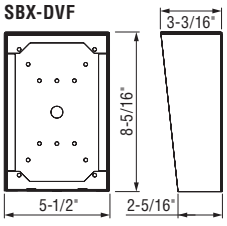
Mounting
SBX-ACE, SBX-DVF, SBX-AXDVF, SBX-DVF-P, SBX-ISDVF SBX-ISDVFP, SBX-ISDVFRA: surface mount directly to wall, 1-gang box, or 2-gang box with included hardware (8 x 32 with T-15 Torx head)

SBX-1G, SBX-2G/A, SBX-NVP/A: surface mount directly to wall or 1-gang box with included hardware (8 x 32 with T-15 Torx head)

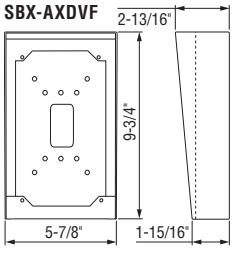
SBX-ACE



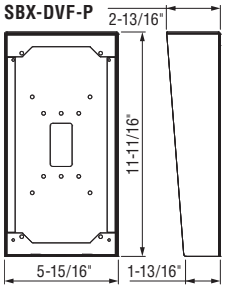
SBX-DVF



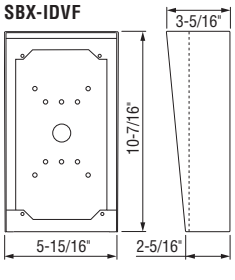
SBX-AXDVF



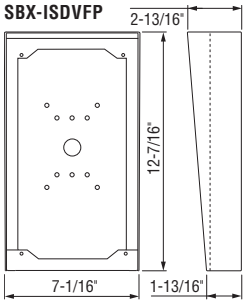
SBX-DVF-P



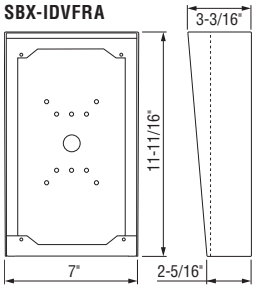
SBX-IDVF



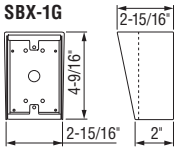
SBX-ISDVFP



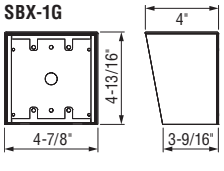
SBX-IDVFRA



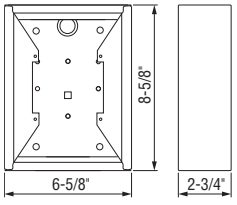
SBX-1G



SBX-1G



SBX-NVP/A



Accessories

Mounting Accessories (continued)

Angle Boxes



KAW-D
30˚ Angle Box for IF-DA, IX-BA, IX-DA, JF-DA, JO-DA, JP-DA, KB-DAR, or KB-DAR-M



SBX-AXDV30
30˚ Angle Box for AX-DV



SBX-DV30
30˚ Angle Box for JF-DV, JO-DV, or JP-DV



SBX-IXDV30
30˚ Angle Box for IX-DV

Features (KAW-D)
- Provides a better viewing angle for the camera
- Compatible with Aiphone 1-gang surface mount door stations
- Angles 1-gang door stations outward by 30°
- Can mount to either right or left of door
- Hinged cover for mounting door station

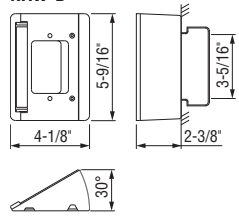
Features (SBX-DV30, SBX-AXDV30, SBX-IXDV30)
- Provides a better viewing angle for the camera
- Designed for angle mounting door stations outward by 30°
- Applicable for wide or double door entrances

Specifications

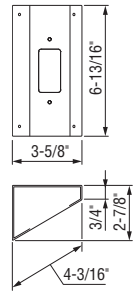
Material: KAW-D: ABS plastic
SBX-IXDV30: 16GA stainless steel
SBX-DV30, SBX-AXDV30, SBX-IXDV30: 18GA stainless steel

Mounting: Surface mount directly to wall or 1-gang box

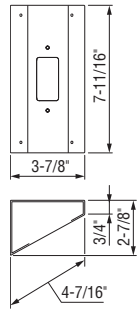
KAW-D



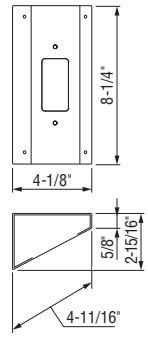
SBX-DV30



SBX-AXDV30



SBX-IXDV30



Mullion Mounting Brackets



IS-MB
Mullion Mounting Bracket for IS-DV or IS-IPDV



IX-MB
Mullion Mounting Bracket for IX-DV



JK-MB
Mullion Mounting Bracket for JF-DV, JO-DV, or JP-DV



KMB-45
45˚ Mullion Mounting Bracket for C-D, GT-D, IF-DA, IX-BA, IX-DA, JF-D, JF-DA, JO-DA, JP-DA, KB-DAR, KB-DAR-M, or LE-D

Features
(IS-MB, IX-MB, JK-MB)
- Mounts compatible station to a door frame or mullion
- Designed to fit station precisely and conceals wiring inside
- Can mount to either right or left of door

Features (KMB-45)
- Compatible with Aiphone 1-gang surface mount door stations
- Mounts door stations to mullion with a 45° angle
- Can mount to either right or left of door
- Provides a better viewing angle for the camera

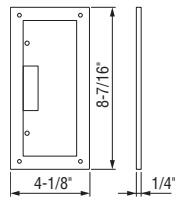
Specifications

Material: Aluminum

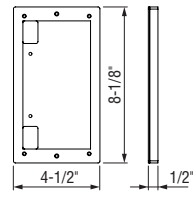
Mounting: IS-MB, IX-MB, JK-MB: surface mount directly to mullion or 1-gang box

KMB-45: surface mount directly to side of mullion

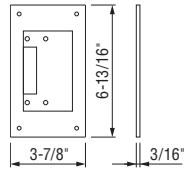
IS-MB



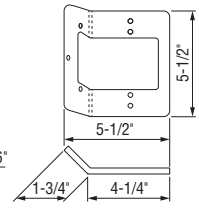
IX-MB



JK-MB



KMB-45



Mounting Accessories (continued)

Retrofit Mounting Bracket



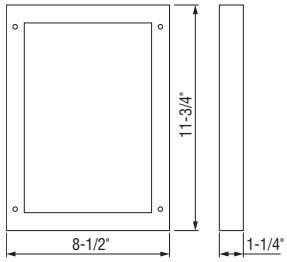
MB-RF1
Retrofit Mounting Bracket for IS-DVF-2RA, IS-SS-2RA-R, IS-SS-RA-R, IX-DVF-P, IX-DVF-2RA, IX-DVF-RA, IX-SSA-2RA, or IX-SSA-RA
(adapts station to an existing Code Blue® or Talk-A-Phone® tower or wall box)

Features
- Adapts IS Series or IX Series emergency stations to existing Code Blue® or Talk-A-Phone® towers or wall boxes
- Powder-coated exterior

Specifications

Material	18GA CRS
Mounting	Surface mount directly to tower or wall box

MB-RF1



Back Boxes

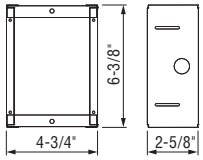


BBX-1E
Flush Mount Back Box for AX-B, AX-BN, LE-B, LE-BN, LEF-1C, or LEF-3C

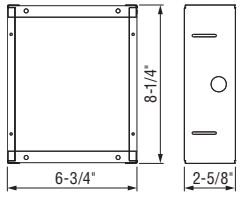
BBX-3E *(not shown)*
Flush Mount Back Box for LEF-5C or LEF-10C

Features
- Provides easy rough-in installation for semi-flush master or sub stations

BBX-1E



BBX-1E



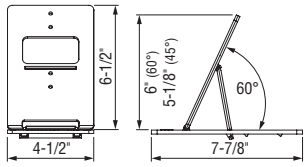
Desk Stand



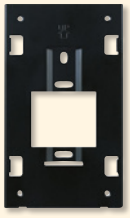
MCW-S/A
Desk Stand for AX-8M, AX-8MV, AX-8MV-W, DB-1MD, DB-1SD, GT-1A, GT-1C7, GT-1M3, GT-2C, GT-2H, JF-2HD, JF-2MED, JO-1FD, JO-1MD, JO-1MDW, JP-4HD, JP-4MED, KB-3HRD, or KB-3MRD

Features
- Allows desk mounting of master and / or handset station
- Mounting hardware included
- Station is propped up for easier viewing
- Pre-drilled mounting holes
- Constructed with sturdy ABS plastic
- Adjustable to 45° or 60° angles

MCW-S/A



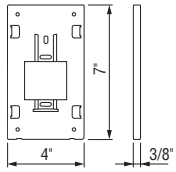
Mounting Plate



MKW-P
1-Gang Mounting Plate for JF-DV, JO-DV, or JP-DV

Features
- Hardware included
- Adapts the JF-DV, JO-DV, and JP-DV surface mount door stations to a standard 1-gang box or ring

MKW-P



Paging Accessories

Indoor Ceiling Speakers & Support Bracket

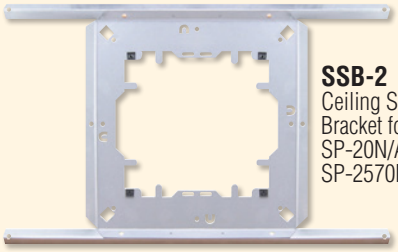


SP-20N/A
Ceiling Speaker
Sub Station
(requires NP-25V)
- 8Ω with 20Ω transformer
- Indoor use
- Flush mount

SP-2570N
Ceiling Speaker
- 8Ω, 25/70V, 5W
- Indoor use
- Flush mount



NP-25V
33µF, 25V Non-Polarized Capacitor



SSB-2
Ceiling Support Bracket for SP-20N/A or SP-2570N

Features
(SP-20N/A, SP-2570N)
- Can be used with any Aiphone system that has paging ability (see specifications for requirements)
- Ceiling flush mount
- 8" dual cone speaker with 12-7/8" white baffle
- Excellent sound and voice reproduction
- Easy installation in a drop tile ceiling using the SSB-2

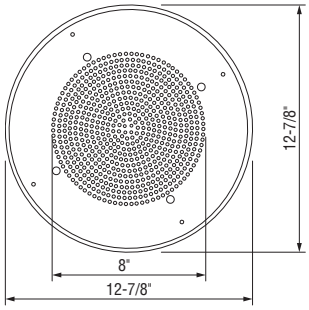
Features
(additional for SP-20N/A)
- Provides two-way communication with the LEF and LEM Series intercoms

Features (SSB-2)
- Optional ceiling support bracket for installations in drop tile ceilings

Specifications

Power Capacity	8W RMS
Impedance	SP-20N/A: 20Ω direct
	SP-2570N: 8Ω direct or 25/70V transformer
Frequency Response	65Hz – 17kHz
Wattage Taps	SP-20N/A: N/A
	SP-2570N (25V): 0.325W, 0.625W, 1.25W, 2.5W, and 5W
	SP-2570N (70V): 0.312W, 0.625W, 1.25W, 2.5W, and 5W

SP-20N/A, SP-2570N



Paging Amplifiers



MD35M
35W Paging Amplifier



MD60M
60W Paging Amplifier



MD120M
120W Paging Amplifier

Features
- Can be used with any Aiphone system with paging ability (see specifications for requirements)
- 3 channel inputs
- Wide frequency response with very low distortion
- Balanced microphone input
- Phantom power on MIC input with selector
- Balanced telephone paging input
- VoIP telephone paging input
- Tel and mic VOX sensitivity control
- Auxiliary input with stereo summing
- Auxiliary input gain
- Independent input controls (bass and treble)
- Direct muting or unmuting
- 12V accessory power output
- 600Ω or 10K (VoIP) MOH output with separate output level control
- 8Ω, 25V, and 70V output impedance
- Rack mounting with optional kits

Specifications

Power Source	120V AC, 50-60Hz
Output	35/60/120W RMS
Input	Microphone: 250Ω balanced
	Telephone: 600Ω balanced
	Auxiliary: 47kΩ
	VoIP: 50kΩ unbalanced
Distortion	Less than 0.5% THD
Frequency Response	20Hz – 20kHz ± 2dB
Dimensions (H x W x D)	1-3/4" x 8-1/2" x 12-1/2" 44.5mm x 215.9mm x 317.5mm

Paging Adaptor



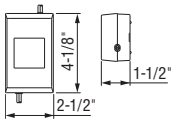
BA-1
Paging Adaptor for LEF Series or LEM Series

Features
- Can be used with LEF Series or LEM Series
- Provides outgoing paging to external speakers
- Takes the place of a separate microphone for paging where there is an intercom

Specifications

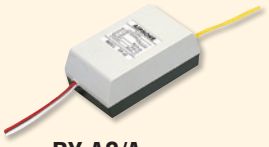
Power Source	Supplied by Master Station
Input	20Ω
Output	10kΩ
Output to Adaptor	0dB and -20dB, selectable
Requirements	AUX input (10kΩ) or 100mV for rated output
Wire Type	2-cond., overall shield — use Aiphone #822202

BA-1



Relay & Adaptor Accessories

External Signaling Relays



RY-AC/A
External Signaling Relay for C-123L/A Set, C-123LW Set, IE-8 Series, LEF Series, LEM Series, LEM-1DL Series, or TD-H Series
(requires DAK-2S when used with C-123L/A Set, C-123LW Set, LEM Series, or LEM-1DL Series)



RY-ES
External Signaling Relay for AX Series, DB Series, JF Series, JO Series, JP Series, KB Series, or NIM Series

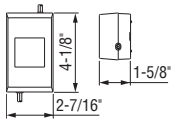
Features (RY-AC/A)
- Allows an external device to be triggered when the intercom is called
- External device will be activated momentarily as long as the call button on the door station is activated

Features (RY-ES)
- Allows an external device to be triggered when the intercom is called
- External device will be activated when the door station calls in

Specifications

Power Source	RY-AC/A: 12V DC – supplied by Master Station RY-ES: 12 – 24V DC, 12 – 16V AC – supplied by Master Station
Contact Rating	RY-AC/A: 240V AC, 0.3A, 24V DC, 1A (bell, buzzer, chime, etc., must be AC operated or DC mechanical type only) RY-ES: 125V AC, 1.0A 30V DC, 1.0A

RY-AC/A, RY-ES



Dual Master Adaptor Kit



DAK-2S
Dual Master Adaptor Kit for C-123L/A and LEM-1DL Systems

Features
- Allows second master station to be used in C-123L/A and LEM-1DL systems
- Allows RY-AC/A to be used for external signaling in C-123L/A and LEM-1DL systems
- Two component modules per kit
- Included with the C-123LW set and C-ML/A master station

Surge Arrestor Accessory

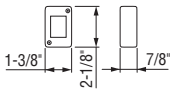
Surge Arrestor



SA-1
Surge Arrestor for C-123L/A Set, CCS-1A Set, GT Series, IE-8 Series, KB Series, LEF Series, LEM Series, MC Series, or Power Supplies

Features
- A surge arrestor designed to protect Aiphone intercom systems from damage due to power surges and lightning strikes
- Can be used to protect power inputs to all Aiphone DC powered systems and intercom circuits by dispersing surges on the station wires
- Each SA-1 will protect two intercom station wires and discharge up to 180V of surge voltage

SA-1



UL Listed Power Supplies & Transformers

12V AC Transformer

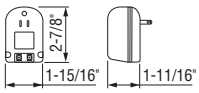


PT-1210NA
12V AC Transformer for CCS-1A Set, EL-12S, IE-8 Series, or LEM-1DL Series

Specifications

Input	120V AC, 60Hz
Output	12V AC, 10VA, 830mA
Consumption	15W

PT-1210NA



15V AC Transformer

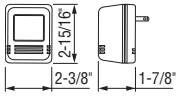


PT-1211CA
15V AC Transformer for DA-1DS, DA-4DS, or DB Series

Specifications

Input	120V AC, 60Hz
Output	15V AC, 10VA, 700mA
Consumption	10.5W

PT-1211CA



6V DC Power Supply

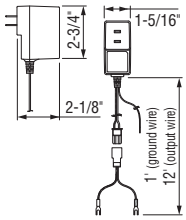


SKK-620C
6V DC, 200mA Power Supply for AT-406 Series, C-123L/A Set, C-123LW Set, or LEM Series

Specifications

Cord Length	12'
Ground Wire Length	1'
Input	120V AC, 60Hz
Output	6V DC, 200mA

SKK-620C



12V DC Power Supplies



PS-1225UL
12V DC, 2.5A Power Supply for LEF Series with All Call or TD-H Series
(required for the LEF Series if using BG-10C, otherwise use PS-1208UL)

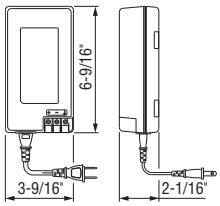


PS-1208UL
12V DC, 800mA Power Supply for LEF Series without All Call
→ p.111

Specifications

Cord Length	6'2"
Input	100–240V AC, 50/60Hz
Output	PS-1225UL: 12V DC, 2.5A
	PS-1208UL: 12V DC, 800mA
Consumption	37W, 65–82VA

PS-1225UL, PS-1208UL



18V DC Power Supply

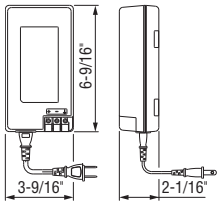


PS-1820UL
18V DC, 2A Power Supply for JF Series or JO Series

Specifications

Cord Length	6'2"
Input	100–240V AC, 50/60Hz
Output	18V DC, 2A
Consumption	45W, 75–95VA

PS-1820UL



24V DC Power Supply

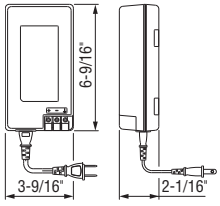


PS-2420UL
24V DC, 2A Power Supply for AX Series, GT Series, IM Series, IX Series, JP Series, KB Series, MC Series, NHX Series, or the Beacon / Strobe Light for Emergency Wall Boxes and Towers

Specifications

Cord Length	6'2"
Input	100–240V AC, 50/60Hz
Output	24V DC, 2A
Consumption	60W, 100–125VA

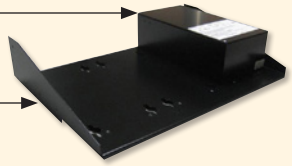
PS-2420UL



48V DC Power Supply & Rack Mount

IS-PU-UL
48V DC, 2A Power Supply for IS Series or NIM Series

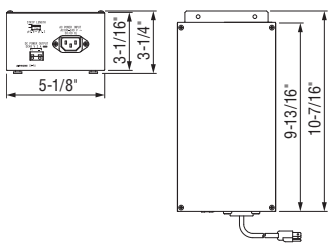
IS-RACK
19" Rack Mount for up to 3 IS-PU-ULs
(image shown with 1 IS-PU-UL – power supply not included)



Specifications (IS-PU-UL)

Cord Length	5'10"
Input	100–240V AC, 50/60Hz
Output	48V DC, 2.1A
Consumption	120W

IS-PU-UL



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AIPHONE® WIRE BY STOCK NUMBER

STOCK #	LENGTH	AWG	DESCRIPTION	INSULATION	CAPACITANCE	DC RES/1000
81221650C	500'	22	16-conductor, non-shielded	PVC	23.60 pf/ft	17.50 ohm
82180210C	1,000'	18	2-conductor, overall shield	PVC	47.00 pf/ft	6.92 ohm
82180310C	1,000'	18	3-conductor, overall shield	PVC	47.00 pf/ft	6.92 ohm
82220250C	500'	22	2-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82220210C	1,000'	22	2-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82220350C	500'	22	3-conductor, overall shield	PVC	44.62 pf/ft	17.50 ohm
82220650C	500'	22	6-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82221050C	500'	22	10-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82221250C	500'	22	12-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82221550C	500'	22	15-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82222050C	500'	22	20-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
85160210C	1,000'	16	2-conductor, low cap, PE, solid, non-shielded	PE	12.50 pf/ft	4.02 ohm
851602DBW10C	1,000'	16	2-conductor, low cap, PE, solid, non-shielded, direct burial	PE	12.50 pf/ft	4.16 ohm
85220710C	1,000'	22	7-conductor, low cap, PE, non-shielded	PE	16.50 pf/ft	17.50 ohm
86220810C	1,000'	22	4 twisted pair, low cap, PE, overall shield	PE	15.28 pf/ft	10.15 ohm
86221025C	250'	22	5 twisted pair, low cap, PE, overall shield	PE	15.28 pf/ft	10.15 ohm
87180250C	500'	18	2-conductor, low cap, PE, solid, non-shielded	PE	11.05 pf/ft	6.39 ohm
87180210C	1,000'	18	2-conductor, low cap, PE, solid, non-shielded	PE	11.05 pf/ft	6.39 ohm
871802P10C	1,000'	18	2-conductor, low cap, PVC, solid, non-shielded, plenum rated	FEP	13.00 pf/ft	6.52 ohm
87180450C	500'	18	4-conductor, low cap, PE, solid, non-shielded	PE	13.60 pf/ft	6.39 ohm
871804P50C	500'	18	4-conductor, low cap, PE, solid, non-shielded, plenum rated	FEP	23.60 pf/ft	6.80 ohm
87200250C	500'	20	2-conductor, mid cap, PE, solid, non-shielded	PE	20.96 pf/ft	10.15 ohm
87200210C	1,000'	20	2-conductor, mid cap, PE, solid, non-shielded	PE	20.96 pf/ft	10.15 ohm
872002P10C	1,000'	20	2-conductor, mid cap, PE, solid, non-shielded, plenum rated	FEP	18 pf/ft	10.15 ohm

WIRE NUMBER CODING

1st digit: **8** = Aiphone approved wire

2nd digit: Type of wire → **1** = non-shielded **5** = low capacitance
2 = shielded **6** = twisted pair/shielded
3 = twisted pair **7** = solid PE, low/mid capacitance

3rd & 4th digits: Gauge → **22** = 22 AWG **20** = 20 AWG **18** = 18 AWG **16** = 16 AWG

5th & 6th digits: Number of-conductors → **02** = 2-conductors **12** = 12-conductors

7th & 8th digits: Length of wire → **10** = 1,000' box **50** = 500' box **25** = 250' box

9th digit: "C" indicates new wire

DB = Direct Burial

P = Plenum

WIRE NUMBER CODING EXAMPLE

1st: Aiphone Approved	2nd: TYPE - Shielded	3rd & 4th: GAUGE - 22 AWG	5th & 6th: CONDUCTORS 02=2 Conductors	7th & 8th: WIRE LENGTH 10=1,000' Box	9th: "C" is New Wire
8	2	22	02	10	C

WIRE INFORMATION

All wire is stranded unless otherwise indicated.

Non-plenum wires have a gray jacket. Plenum wires have a natural jacket.

All wire meets the following standards: UL, C(UL), UL 444, CA Fire Marshal

Contact Aiphone for current pricing.

Using Aiphone wire extends your product warranty by one year.



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