

ENFORCER Vandal-Resistant CCD DOME CAMERA Manual

TROUBLE SHOOTING

The screen is blank	• Check that the CCTV camera is powered up. • Check that the monitor is powered up. • Check that the video cable connecting the camera to the monitor is connected properly.
The screen image is dim	• Clean the lens (using a soft, clean cloth). • Check that the light source is adequate. • Clean the dome. • If the backlight control (BLC) DIP switch is set to OFF, try setting it to ON.
The screen image is dark	• Check that the automatic electronic shutter (AES) DIP switch is turned OFF.
The screen image has poor contrast	• Adjust the monitor's contrast knob. • Change the position of the camera.
The screen image flickers	• Change the position of the camera.
The screen image rolls	• If multiple cameras are used, make sure the polarity of the power connections is consistent.
The screen image is distorted	• (24VAC only) If more than one camera is attached to the same power source, adjust the other camera's linelock sync. This camera cannot be adjusted. • Change the position of the camera.
The camera case is hot	• Check that the correct power supply is in use.

FCC COMPLIANCE STATEMENT: Information to the user: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

IMPORTANT: Users and installers of this product are responsible for ensuring this product complies with all national, state, and local laws and statutes related to monitoring and recording audio and video signals. **SECO-LARM** will not be held responsible for the use of this product in violation of any current laws or statutes.

WARNING: Incorrect mounting which leads to exposure to rain or moisture inside the enclosure could cause a dangerous electric shock, damage the device, and void the warranty. Do not open the case of this device, as there are no field-serviceable components inside.

WARRANTY: All SECO-LARM products are warranted against defects in material and workmanship while used in normal service for a period of two (2) years from the date of sale to the original consumer customer. Our obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM. For complete details regarding the SECO-LARM warranty, please contact SECO-LARM.

NOTICE: The information and specifications printed in this manual are current at the time of publication. However, the SECO-LARM policy is one of continual development and improvement. For this reason, SECO-LARM reserves the right to change specifications without notice. SECO-LARM is also not responsible for misprints or typographical errors. Copyright © 2005 SECO-LARM U.S.A., Inc. All rights reserved. This material may not be reproduced or copied, in whole or in part, without the written permission of SECO-LARM.

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ENFORCER[®] VIDEO

MANUAL

EV-1233CVW

Sony 1/3" Super HAD Color Vandal-Resistant Dome Camera with Auto Iris Varifocal Lens



SLI[®]
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TABLE OF CONTENTS

INTRODUCTION 2

FEATURES 2

SPECIFICATIONS 3

BEFORE STARTING 4

INSTALLATION 4

TROUBLE SHOOTING 8

INTRODUCTION

Thank you for purchasing the EV-1233CVW color vandal-resistant dome camera.

The EV-1233CVW is protected by an attractive, ruggedized, heavy-duty steel enclosure and a high-impact smoked plastic dome against nearly any attempted attack or vibration. The water-proof enclosure means the unit can be mounted indoors or outdoors.

Inside is a high-resolution color camera, based on a 1/3-inch Sony Super HAD CCD chip and a digital signal processor (DSP) for superior picture quality under almost any lighting conditions. The Varifocal-type lens allows the focus and the focal length to be set by the installer. The camera also includes a DC-drive auto iris drive for the lens, Auto Electronic Shutter (AES), Auto Gain Control (AGC), Back Light Compensation, Auto White Balance, and flickerless mode, and works with either 24VAC or 12VDC.

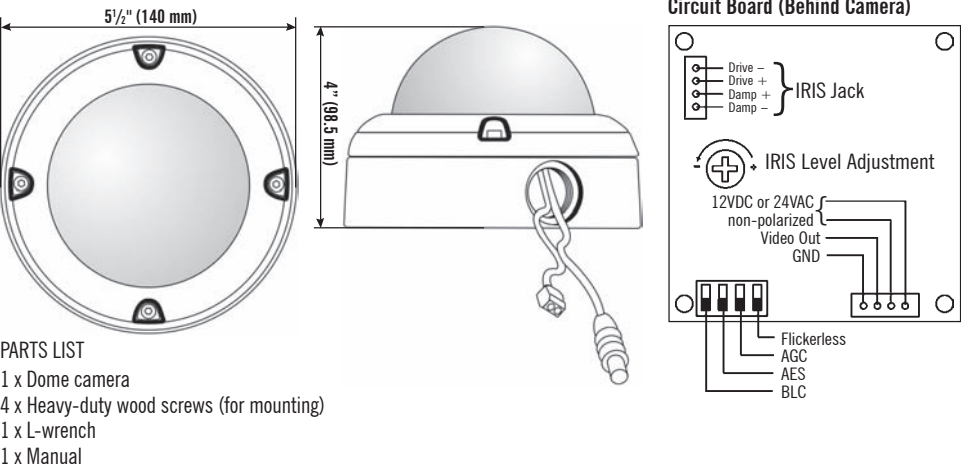
FEATURES

- Sony 1/3" Super HAD CCD.
- All-metal vandal-resistant weatherproof enclosure.
- High resolution, high sensitivity, low lux.
- Digital Signal Processor (DSP) for image control.
- Built-in Varifocal-type DC-drive auto iris lens.
- 24VAC/12VDC dual operation, low power consumption.
- Auto Electronic Shutter (AES), Auto Gain Control (AGC), Auto Iris, Back Light Compensation, Auto White Balance and Flickerless mode.

SPECIFICATIONS:

Type	Color Vandal-Resistant Dome Camera
Chip	1/3" Sony Super HAD CCD
Resolution	470 TV lines horizontal
Pickup elements	768 x 494
Sync	DC: Internal; AC: Linelock
Video output	1 Vp-p composite output, 75 Ohms.
Varifocal lens	4-9 mm; F1.5; DC drive iris lens
Digital signal processor	Yes, DSP image control
Minimum illumination	0.4 lux
Backlight compensation	ON/OFF switchable
Shutter control	Auto Electronic Shutter (AES), 1/60~1/100,000 sec.
Auto-iris control	DC drive iris control
Flickerless mode	ON/OFF switchable
Auto Gain Control (AGC)	High/Low switchable
Gamma correction	0.45
Auto White Balance (AWB)	2500°K~9500°K
S/N ratio	Over 48dB
Power source	24VAC or 12VDC
Current consumption	5.0W (24VAC) / 280mA (12VDC)
Ambient temperature	14° ~ 122° F (-10°~50° C)
Dimensions	5 1/2" x 4" (140 x 98.5 mm)
Conduit fitting	3/4" threaded pipe
Weight	4 lbs. 6 oz. (1984 gm)

Fig. 1: Specifications



BEFORE STARTING

1. Read this manual completely before starting installation and before using the CCTV camera. This manual includes important installation and user information.
2. Do not mount the CCTV camera where it is directly exposed to rain or other moisture, or in humid or dusty places. The CCTV camera was designed for outdoor use, but for extra protection, keep as dry as possible.
3. Do not point the CCTV camera at the sun. Heat could damage the camera, even when not in use.
4. Do not mount the CCTV camera in areas exposed to radiation, strong magnetic fields, or strong electrical signals.*
5. Do not open or disassemble the camera. There are no user-serviceable parts inside.
6. Do not drop the camera or subject it to strong vibrations.

* NOTE: Many video monitors produce strong electromagnetic fields close to the display CRT, especially when the monitor is turned on or during de-Gaussing, which occurs automatically with many monitors when the monitor is turned on.

INSTALLATION

WARNING — Do not connect power to the CCTV camera until you are ready for testing.

1. Remove the dome. Use the L-wrench to loosen the four tamper-resistant screws that attach the dome to the camera base. Be careful not to scratch the dome. DO NOT TOUCH ANY OF THE ELECTRONIC COMPONENTS OR THE CAMERA LENS INSIDE THE DOME. See fig. 2.
2. Temporarily connect the camera to a video monitor via the video cable, and to a 24VAC or 12VDC power source.
3. Hold the base of the dome camera by hand against the ceiling, and try various locations and angles while watching the video monitor to find the location which offers the best protection. Mark that location with a pencil.
4. Mount the camera to the ceiling:

Fig. 2: Remove the dome

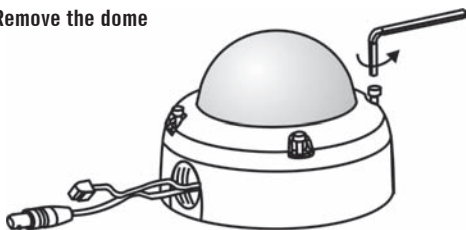


Fig. 3: Cable outlet choice

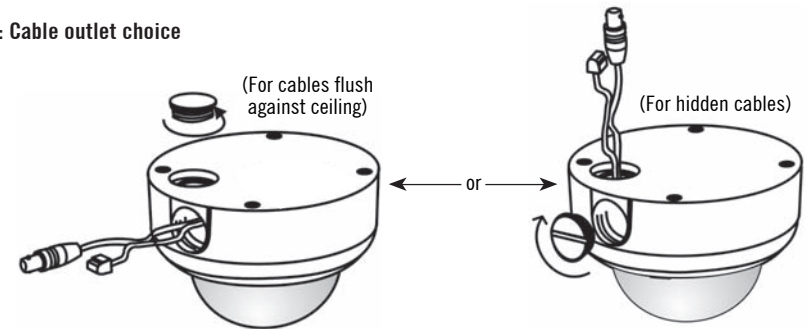


Fig. 4: Mount to the ceiling

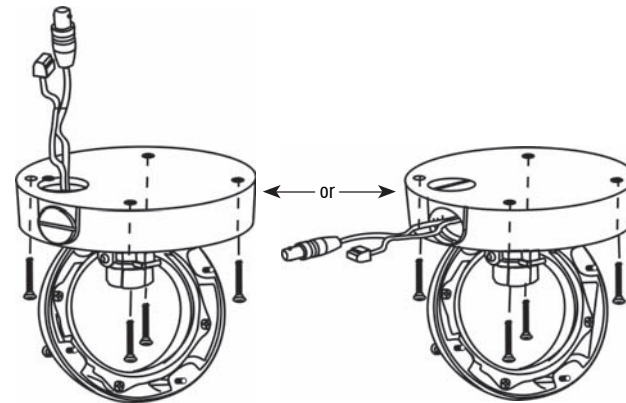
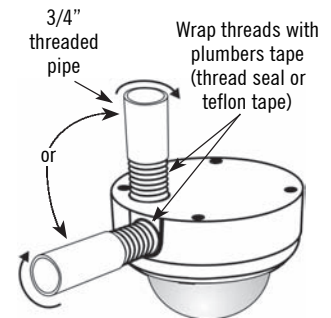


Fig. 5: Conduit fitting

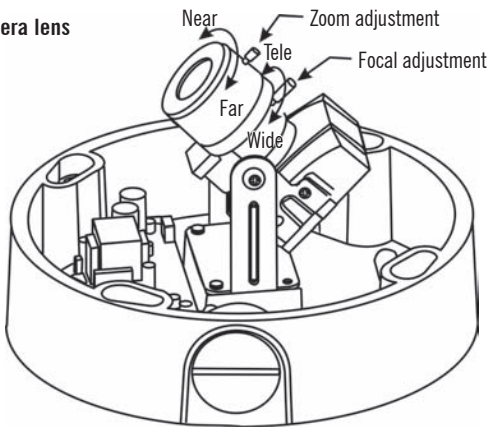


- a. Determine whether the video and power cables are to be hidden or run flush against the ceiling, and then run the camera's cables either through the hole in the base or the hole in the side. Use conduit to protect the cables. Use the screw-in cover to seal the unused hole. See fig. 3.
 - b. Mount the camera. See fig. 4.
 - c. If cables are run flush against the ceiling, they must be protected against vandalism by armored cable or threaded steel pipe. For best results, use 3/4-inch threaded steel pipe (see fig. 5). Wrap plumbers tape (thread seal or Teflon tape) around the threads of the pipe, and then screw the pipe into the hole in the side of the camera enclosure.
5. Connect the video and power cables to the camera.

NOTE: The necessary power adapter or transformer is sold separately. Contact SECO-LARM for a variety of possible power supplies.

NOTE: The polarity of the power cable does not affect a single camera. However, for multiple cameras, use the same polarity in order to help prevent screen rolling.

Fig.6: Adjusting the camera lens



6. Adjust the camera lens (see fig. 6):
- a. Make any necessary adjustments to the horizontal and vertical angles of the camera itself while checking the image in the video monitor.
 - b. Loosen the zoom lever screw, move the zoom lever right or left depending on how close the camera is to the protected area, and then tighten the zoom lever screw.
 - c. Loosen the focus lever screw, move the focus lever right or left to bring the protected area into the best focus, and then tighten the focus lever screw.
7. Configure the camera (see fig. 7):

DIP switch #	Feature	ON	OFF
1	Automatic BackLight Compensation (BLC)	Enables	Disables
2	Automatic Electronic Shutter (AES)*	Enables	Disables
3	Automatic Gain Control (AGC)	Hi - max. 26dB	Low - max 16dB
4	Flickerless function	Enables (& disables AES)	Disables

* AES should be turned OFF, as camera includes DC-drive automatic iris.

- 8. Replace the dome, taking care not to touch the camera or scratch the dome. Carefully position the plastic gasket between the dome and the base. See fig. 8.
- 9. If mounted outdoors, put a layer of rubber or silicon sealant between the dome camera base and the ceiling to prevent moisture from collecting above the camera.
- 10. Test the camera again under the exact lighting conditions under which it is expected to be used.

Fig.7: Configure the camera

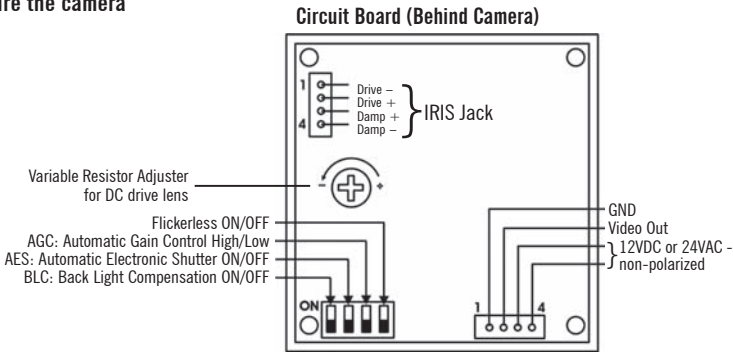


Fig.8: Replace the dome cover

