

ENFORCER Vandal-Resistant CCD Dome Camera Manual

TROUBLESHOOTING

The screen is blank	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Clean the lens (using a soft, clean cloth).• Check that the light source is adequate.• Clean the dome.
The screen image is dark	<ul style="list-style-type: none">• If the backlight control (BLC) DIP switch is set to OFF, try setting it to ON.
The screen image has poor contrast	<ul style="list-style-type: none">• Check that the automatic electronic shutter (AES) DIP switch is turned OFF.• Adjust the monitor's contrast knob.
The screen image flickers	<ul style="list-style-type: none">• Change the position of the camera.
The screen image rolls	<ul style="list-style-type: none">• If multiple cameras are used, make sure the polarity of the power connections is consistent.• (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.
The screen image is distorted	<ul style="list-style-type: none">• Change the position of the camera.
The camera case is hot	<ul style="list-style-type: none">• 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 © 2008 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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The Elite Series

ENFORCER[®] VIDEO

MANUAL

Vandal-Resistant Dome Cameras

EV-2606-NJEQ



With 36 LEDs

EV-2605-NKEQ



Flush or
Surface
Mount

SLI[®]
SECO-LARM[®]



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INTRODUCTION

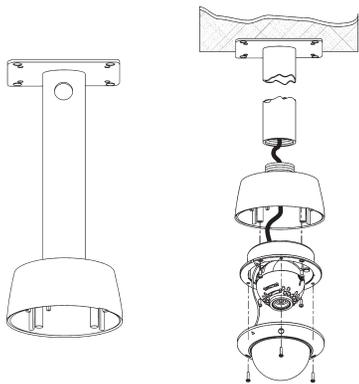
The Elite Series Vandal Dome cameras are the ideal solutions to many different CCTV challenges. The camera feature hi-resolution, ICR mechanical day/night, and a varifocal lens to ensure a precise, clear image in any lighting condition. Heavy-duty, vandal-proof materials combined with an IP66 weatherproof rating make this camera suitable for use in nearly any condition.

FEATURES

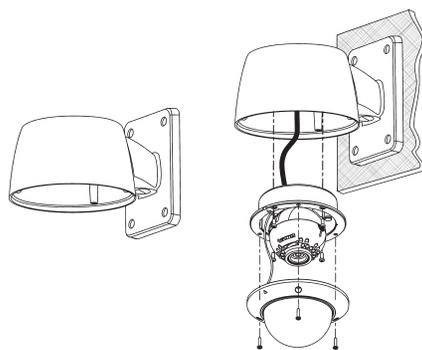
- Sony 1/3" Super HAD CCD.
- ICR mechanical day/night.
- Varifocal aspherical DC Auto iris, F1.2 lens.
- Color and B/W auto switching by photocell.
- DIP switch control for day/night time delay, flickerless, BLC, and white balance.
- DC iris control level volume built-in.
- Easy adjustment of focal length and focus.
- True 3-axis gimbal bracket (2-pan, 1-tilt).
- Service monitor port.
- Vandal-resistant and weatherproof housing (IP66).
- 24VAC/12VDC dual power source.

OPTIONAL ACCESSORIES

Ceiling Mount Bracket
EV-2605CM



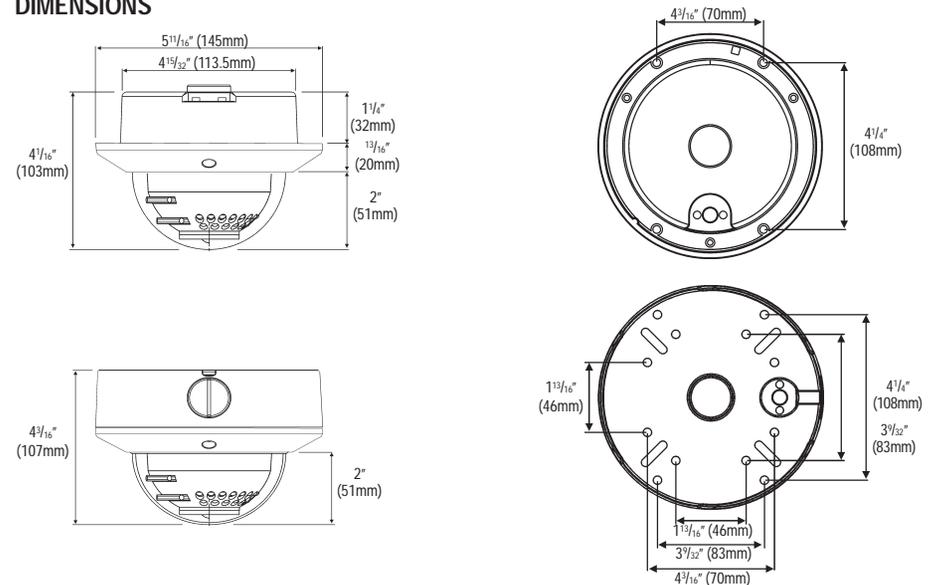
Wall Mount Bracket
EV-2605WM



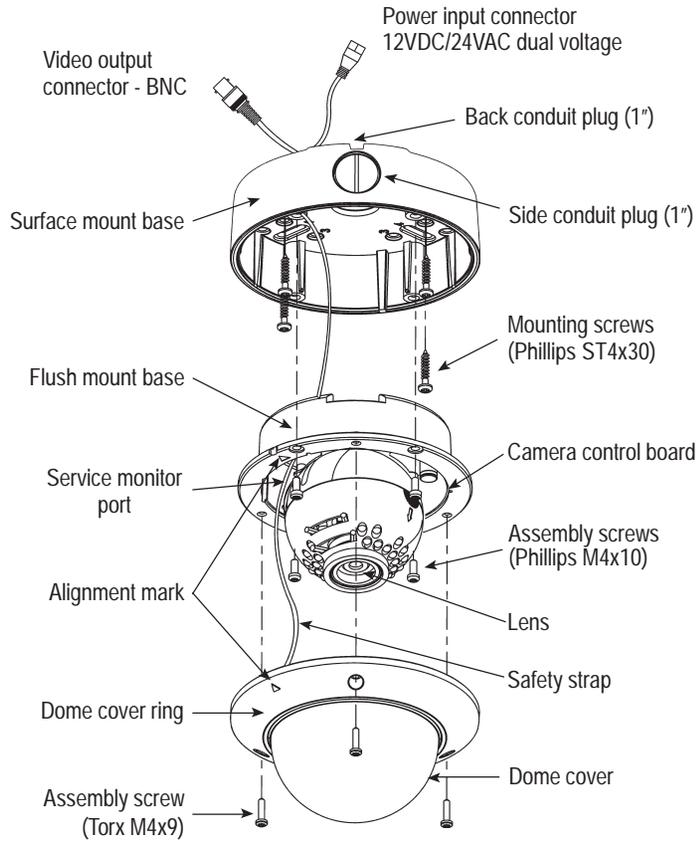
SPECIFICATIONS

Model	EV-2606-NJEQ	EV-2605-NKEQ
Type	Color IR Vandal-Resistant Dome	Color Vandal-Resistant Dome
Image sensor	1/3" interline transfer for color CCD (Sony)	
Resolution	550 TV lines	
Pickup elements	768 x 494 pixels	
Sync	Internal	
Video output	1 Vp-p composite output, 75 Ohms.	
Shutter speed	1/60 sec.	
Iris control	DC auto iris	
Gain control	Auto	
Gamma correction	0.45	
White balance	ATW /AWC selectable	
Backlight compensation	ON/OFF selectable	
S/N ratio	> 48dB (AGC off)	
Power source (+/-10%)	24VAC or 12VDC	
Ambient temperature	14° ~ 122° F (-10°-50° C)	
Varifocal lens	3.8-9.5 mm	2.8-11.0 mm
Minimum illumination	0 lux IR LEDs on	0.03 lux / F1.2
Power consumption @ 24VAC	Max: 12VA	Max. 4.8VA
Power consumption @ 12VDC	Max: 650mA	Max. 250mA
Weight	4 lbs. 6 oz. (2.0 kg)	4 lbs. 6 oz. (2.0 kg)

DIMENSIONS



CAMERA ASSEMBLY



BEFORE STARTING

1. Please read this manual carefully and keep it for future reference.
2. Use the camera within given temperature and electrical limits.
3. Do not mount the camera where it is exposed to rain or other moisture, or in humid or dusty places.
4. Do not point the CCTV camera at the sun. Heat could damage the camera, even when not in use.
5. Do not mount the CCTV camera in areas exposed to radiation, strong magnetic fields, or strong electrical signals.*
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.

MOUNTING INSTRUCTIONS

1. Remove the dome cover by loosening 3 security screws with supplied Torx wrench.
2. Mount the camera to ceiling or wall.
 - A. If surface mounting, see figure 1.
 - B. If flush mounting, see figure 2.
 - C. If mounting to electrical box, see figure 3 and 4.

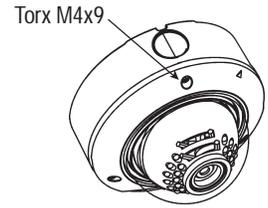


Figure 1 - Surface Mount

- A. Use Guide Pattern on wall or ceiling.
- B. Using four ST4x30 screws, mount surface base to a sturdy surface.
- C. Using four M4x10 screws, affix flush mount base to surface base.

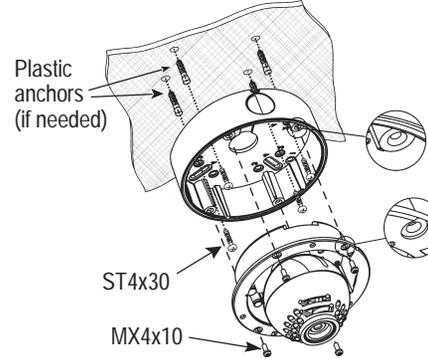


Figure 2 - Flush Mount

- A. Use Guide Pattern on wall or ceiling.
- B. Using four ST4x30 screws, affix flush mount base to a sturdy surface.

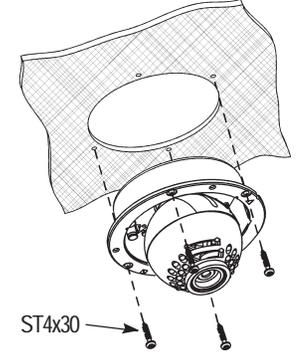


Figure 3 - Mounting to Electrical Junction Box (with surface mount base)

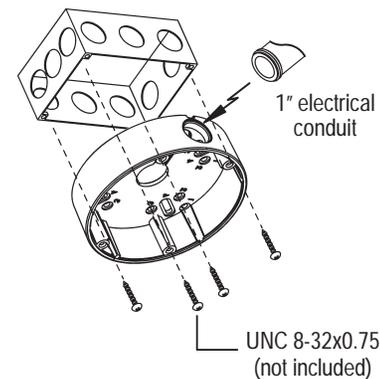
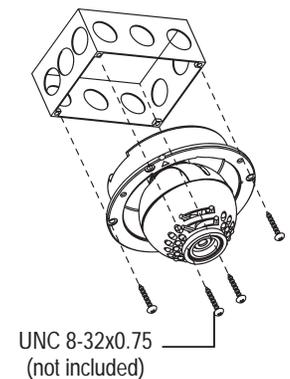


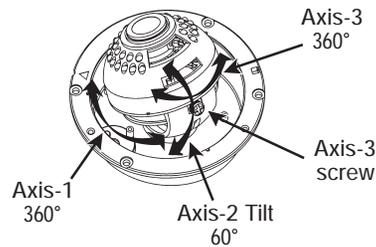
Figure 4 - Mounting to Electrical Junction Box (flush mount)



3-AXIS GIMBAL ADJUSTMENT

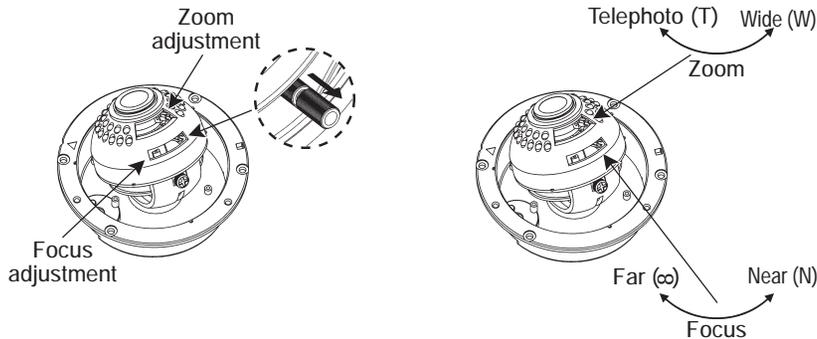
The 3-axis gimbal allows the camera to rotate 360° horizontally, 360° vertically and 60° tilt. Adjust the proper angle as needed.

1. Axis-1: Turn axis-1 by hand for up to 360 degrees rotation.
2. Axis-2: Adjust axis-2 (tilt) up or down by hand.
3. Axis-3: Loosen the axis-3 screw to adjust the 3rd axis to the desired angle and then tighten the screw.



ZOOM AND FOCUS ADJUSTMENT

1. Make any necessary adjustments to the horizontal and vertical angles of the camera itself while checking the image in the video monitor.
2. Pull the zoom lever out and loosen it by turning it counter-clockwise. Slide the lever right or left depending on how close the camera is to the protected area. After adjustments have been made, turn the lever clockwise to tighten it, then push the lever back in.
3. Pull the focus lever out and loosen it by turning it counter-clockwise. Slide the lever right or left to bring the protected area into focus. After adjustments have been made, turn the lever clockwise to tighten it, then push the lever back in.



IMPORTANT: Make sure the focus and zoom levers are pushed back in after adjustments are made. Failure to do so may cause damage to the dome.

ALSO AVAILABLE FROM SECO-LARM

EVT-PB1Q

- Transmit video over UTP Cat5 cable.
- Up to 2,000 (610m).



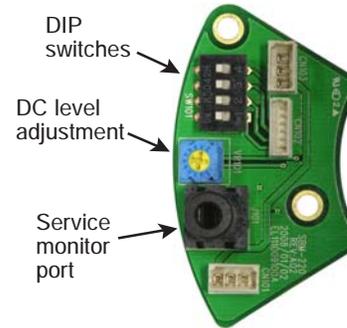
CA-1610-3FLQ

- Illuminated pigtail connector.
- Patent pending.



DIP SWITCH ADJUSTMENTS AND DC IRIS ADJUSTMENT

DIP switch settings (default settings shown) Iris level DC level adjustment



DIP Switch Functions

#	Feature	On (Default)	Off
1	ICR Switch Time ¹	2 sec	4 sec
2	Flickerless ²	Flickerless Off	Flickerless On
3	Back Light Compensation (BLC) ³	BLC On	BLC Off
4	ATW ⁴ or AWC ⁵	ATW	AWC

¹ IR Cut Filter Removable (ICR) Switching Time

The timing delay before switch from color and B/W mode.

² Flickerless

Stabilize the image during rapid changes in different lighting conditions.

³ Back Light Compensation (BLC)

keeps the foreground image properly illuminated where a strong backlight is present.

⁴ Auto Tracking White Balance (ATW)

Adjusts white balance automatically as brightness changes. (Color temperature 2,500K-9,500K)

⁵ Auto White Control (AWC)

White balance is fixed. In the AWC mode, white objects must cover more than half of the image field in order for AWC to function properly. (Color temperature 2,000K-18,000K)

CAMERA CONNECTIONS

- Power: 12VDC or 24VAC.
- Use the supplied service monitor adapter to connect to service monitor.

