

SECO-LARM

Mid-Size Vandal Dome Camera

Manual



Model No.	Resolution	Lens Size
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NTSC

EV-2166-N3WQ	480 TV lines	3.6mm
EV-2166-NVWQ	480 TV lines	4~9mm varifocal
EV-2766-N3WQ	600 TV lines	3.6mm
EV-2766-NVWQ	600 TV lines	4~9mm varifocal

PAL

EV-2166-P3WQ	480 TV lines	3.6mm
EV-2166-PVWQ	480 TV lines	4~9mm varifocal
EV-2766-P3WQ	600 TV lines	3.6mm
EV-2766-PVWQ	600 TV lines	4~9mm varifocal



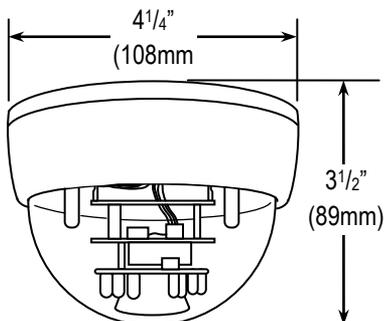
Specifications:

	NTSC	2166-N3WQ	2166-NVWQ	2766-N3WQ	2766-NVWQ
	PAL	2166-P3WQ	2166-PVWQ	2766-P3WQ	2766-PVWQ
Type	Mid Size Vandal Dome				
CCD	1/3" Sony Super HAD II				
Resolution	480 TV lines		600 TV lines		
Lens	3.6mm	4~9mm		3.6mm	4~9mm
# of IR LEDs	18 (850nm)				
IR range	65ft (20m)				
Pickup elements	510x492 pixels (NTSC) 500x528 pixels (PAL)		768x494 pixels (NTSC) 752x582 pixels (PAL)		
Sync	Internal				
Video output	1Vp-p composite video, 75Ω				
Minimum illumination	0-lux (LEDs ON)				
S/N ratio	>48dB				
Shutter control	Auto Electric Shutter (AES)				
Gain control	Auto				
White balance	Auto				
Operating voltage	12VDC ±10%				
Current draw	100mA (LEDs OFF), 200mA (LEDs ON)				
IP Rating	IP65				
Operating temperature	-4°~122° F (-20°~50° C)				
Dimensions	4 1/4" x 3 1/2" (108x89 mm)				
Weight	18-oz (500g)				

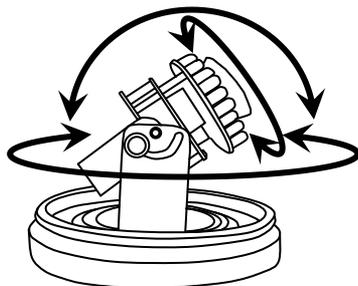
Parts List:

- | | | |
|------------|---------------------|---------------------------------|
| 1 x Manual | 3 x Mounting screws | 1 x DC plug with terminal block |
| 1 x Camera | 3 x Screw anchors | 1 x Allen wrench |

Dimensions:

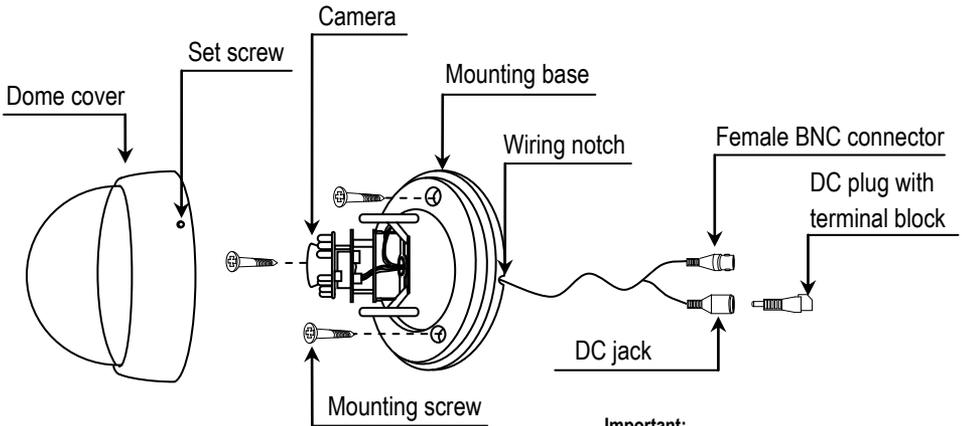


Adjusting the 3-Axis Gimbal:



Move the camera vertically, horizontally, or rotate the lens to change the lens angle.

Overview:



Important:

Do not cut the DC jack or the female BNC connector as this will void the warranty.

Before Starting:

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

Installation:

1. Undo the 3 set screws on the side of the dome cover using the included allen wrench.
2. Remove the dome from the base.
3. Temporarily connect the camera's female BNC connector to a monitor.
4. Temporarily connect the camera's DC jack to a 12VDC power supply.
5. Hold the mounting base with your hand against the wall, ceiling, or other mounting surface. Try various locations and angles while watching the monitor to find the location that offers the best protection. Mark that location with a pencil
6. If the installation involves surface wiring, use the wiring notch located on the side of the mounting base to run wires.
7. Mount the mounting base to the wall using the 3 included mounting screws. If necessary, use the included screw anchors.
8. Run a hidden, permanent video cable from the monitor to the camera.
9. Run a hidden, permanent power cable from a 12VDC power supply to the camera.
10. Make any necessary adjustments to the camera angle by gently twisting the camera on its axis.
11. Reattach the dome to the camera base by giving the dome a slight twist.
12. Use the included allen wrench to tighten the set screw, securing the dome to the base.
13. Test the camera again under the exact lighting conditions under which it is expected to be used.

Troubleshooting:

The screen is blank.

- Check that the camera is powered up.
 - Check that the power supply's polarity is correct.
 - Check that the monitor is powered up.
 - Check that the video cable connecting the camera to the monitor is connected properly.
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The screen image is dim

- Clean the lens using a soft, clean cloth.
 - Check that the light source is adequate.
-

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 is distorted.

- Change the position of the camera.
-

The camera case is hot.

- Check that the correct power supply is in use.
-

IR LEDs do not turn on.

- Check that the correct power supply is in use.
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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

Stop using the camera if you see a malfunction such as smoke or unusual heat, as it could cause fire or electric shock. Do not open the case of this device, as there are no field-serviceable components inside.

FCC COMPLIANCE STATEMENT

Information to the user: This equipment has been tested and found to comply with the limits for a class B 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 or her own expense.

WARRANTY: This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for a period of one (1) year from the date of sale to the original customer. SECO-LARM's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM.

This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair or alteration, improper or abnormal usage, or faulty installation, or if for any other reason SECO-LARM determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship.

The sole obligation of SECO-LARM and the purchaser's exclusive remedy, shall be limited to replacement or repair only, at SECO-LARM's option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damages of any kind to the purchaser or anyone else.

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.

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