

ENFORCER®

4-in-1 HD TVI, CVI, AHD, Analog Rollerball Cameras

Manual



EV-Y2201-A2WQ shown

Model #	Lens	Resolution	Voltage	Style	Color
EV-Y2201-A2WQ	2.8mm	1080p	12VDC	Rollerball	White
EV-Y2201-A2GQ	2.8mm	1080p	12VDC	Rollerball	Gray
EV-Y2201-AMWQ	2.8~12mm	1080p	12VDC	Rollerball	White
EV-Y2201-AMGQ	2.8~12mm	1080p	12VDC	Rollerball	Gray

Features:

- 1080p Resolution
- ICR Module
- 3D-NR (3D Digital Noise Reduction)
- DWDR (Digital Wide Dynamic Range)
- Joystick OSD control
- Heavy-duty vandal-resistant design
- Rugged, weatherproof (IP65) construction
- Split-glass design eliminates IR reflection
- Cables concealed in bracket to prevent tampering

ENFORCER 4-in-1 HD Rollerball Cameras (TVI, CVI, AHD, Analog)

Specifications:

Model	EV-Y2201-A2WQ	EV-Y2201-A2GQ	EV-Y2201-AMWQ	EV-Y2201-AMGQ
Housing color	White	Gray	White	Gray
Type	Fixed Rollerball Camera		Varifocal Rollerball Camera	
Formats	TVI (Default) / CVI / AHD / Analog			
CMOS	1/2.9" 2MP Sony CMOS			
Resolution (HD)	1920x1080			
TV Lines (Analog)	1200TVL			
3D-NR	Yes			
2D-NR	Yes			
DWDR	Yes			
OSD (On-Screen Display)	Yes			
Cable OSD control	Yes			
Video output	1.0Vp-p complex video output			
Megapixels	2MP			
Lens	2.8mm ICR		2.8-12mm ICR	
Viewing Angle	90°		30°-90°	
# of IR LEDs	12 (SMT)		16 (SMT)	
IR Range	Up to 50ft (15m)		Up to 100ft (30m)	
FPS	30FPS			
F Stop	F1.4		F1.4 - F1.6	
Minimum illumination	(IR On)	0Lux		
	(IR Off)	Color: 0.1Lux/F1.4, B/W: 0.01Lux/F1.4		
Gamma correction	0-1			
S/N Ratio	50dB			
DSS (Digital Slow Shutter)	Yes			
Shutter control	Yes			
Gain control	Yes			
White balance	Auto, Day & Night			
Operating voltage	12VDC			
Current Draw	(IR On)	150mA	260mA	
	(IR Off)	80mA	80mA	
IP Rating	IP65			
Operating temperature	-4° ~ -131° F (-20° ~ -55° C)			
Dimensions	Ø3 11/16" x 2 15/16" (Ø93x75 mm)		Ø4 3/4" x 3 3/4" (Ø120x95 mm)	
Weight	13.1-oz (370g)		1-lb, 10.1-oz (740g)	

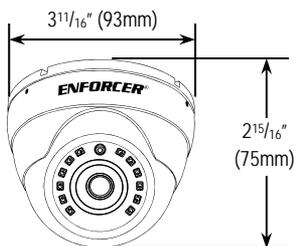
Parts List:

- | | | |
|--------------------------------|---------------|------------------|
| 1x Rollerball camera | 4x Screws | 4x Screw anchors |
| 1x DC plug with terminal block | 1x Hex wrench | 2x Rubber plugs* |
| 1x Small screwdriver* | 1x Manual | |

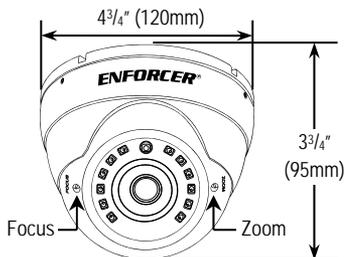
*EV-Y2201-AMxQ only

Overview:

EV-Y2201-A2xQ:

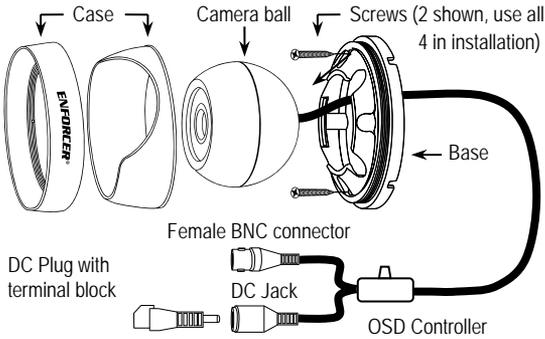


EV-Y2201-AMxQ:



ENFORCER 4-in-1 HD Rollerball Cameras (TVI, CVI, AHD, Analog)

Overview:



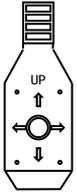
EV-Y2201-A2xQ shown above.

Important: Do not cut any wires as the warranty will be voided.

OSD Controller Settings:

To set format via the OSD controller, hold the controller in the direction of the desired setting, hold for 5 seconds, and release when the camera restarts. See chart below.

Direction	Format Setting
Up	CVI
Down	TVI
Left	CVBS/Analog
Right	AHD



NOTE: Do not press joystick in when setting different modes.

Also Available from **SECO-LARM®**:



4-in-1 HD Fixed Bullet Camera
EV-Y1201-A2WQ



4-in-1 HD Vandal Dome Camera
EV-Y2201-AMWAQ



HD-TVI Wall Plate Camera
EV-T5105-N2SQ



4-in-1 HD Corner-mount Camera
EV-Y4201-A2SQ

Before Starting:

1. Use the camera within the given temperature and voltage limits.
2. Do not point the camera at the sun. Heat could damage the camera, even when not in use.
3. Do not subject the camera to strong vibrations.
4. Do not mount the camera in areas exposed to radiation, strong magnetic fields, or strong electrical signals.

Installation:

1. Run a 12VDC power supply wire and a video cable with a male BNC connector through the wall to where the camera is to be mounted.
2. Loosen the set screws with the included hex wrench and remove the case from the base.
NOTE: The camera ball is NOT attached to the case or the base. It sits loose inside the case. Therefore, be very careful when removing the case from the base. Do not drop the camera ball.
3. Mount the base to the wall using the four included mounting screws. If the wall is made of dry wall, brick, or similar material, it may be necessary to use the included screw anchors.
4. Run the camera's BNC and power connectors through the camera base, and connect to the video and power wires that were run through the wall.
5. Put the case over the camera ball and onto the base.
6. Put the case over the camera ball and onto the base.
7. Holding the case loosely on the base, turn the camera ball to the desired direction. Use the included small screwdriver to adjust the zoom and focus of the camera ball if needed, via the holes marked "ZOOM" and "FOCUS" on the top of the camera ball (EV-Y2201-AMxQ only).
NOTE: Before securing installation, make sure to check both the day and night images. Adjust the camera ball in a way so that there are no objects blocking the camera's view.
8. Use the OSD controller joystick to adjust camera settings (see the separate OSD manual).
9. Once the ball is pointing in the desired direction, tighten the outer case ring to secure the camera in its position.
10. Do a final test of the video camera and monitor.
11. Insert the rubber plugs over the zoom and focus holes to prevent tampering (EV-Y2201-AMxQ only).

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Troubleshooting:

The screen is black	<ul style="list-style-type: none">• 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
The image is foggy or washed out at night	<ul style="list-style-type: none">• Check that there are no objects very close to the camera• Check that there are no highly reflective objects in the scene
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
The screen image has poor contrast	<ul style="list-style-type: none">• Adjust the monitor's contrast knob• Change the position of the camera
The screen image flickers	<ul style="list-style-type: none">• Change the position of the camera, check cables and format setting
The screen image is distorted	<ul style="list-style-type: none">• Change the position of the camera, check cables and format setting
The camera case is hot	<ul style="list-style-type: none">• Check that the correct power supply is in use
IR LEDs do not turn on	<ul style="list-style-type: none">• Check that the correct power supply is in use

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 user-serviceable components inside. Do not cut any wires as the warranty will be voided.

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.

FCC COMPLIANCE STATEMENT

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

WARRANTY: This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for three (3) years 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 the 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 damage of any kind to the purchaser or anyone else.

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