



**EverFocus**

**EVERFOCUS**

1/3" Color 3-Axis Dome Camera  
Operation Instructions

Model No. **ECD360AV**

Please read this manual first for correct installation and operation. This manual should be retained for future reference. The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice.

### **PRECAUTIONS**

**1. Do not install the camera near electric or magnetic fields.**

Install the camera away from TV/radio transmitters, magnets, electric motors, transformers and audio speakers since the electromagnetic fields generated from these devices may distort the video image or otherwise interfere with camera operation.

**2. Never disassemble the camera beyond the recommendations in this manual nor introduce materials other than those recommended herein.** Improper disassembly or introduction of corrosive materials may result in equipment failure or other damage.

**3. Try to avoid facing the camera toward the sun.**

In some circumstances, direct sunlight may cause permanent damage to the sensor and/or internal circuits, as well as creating unbalanced illumination beyond the capability of the camera to compensate.

**4. Keep the power cord away from water and other liquids and never touch the power cord with wet hands.** Touching a wet power cord with your hands or touching the power cord with wet hands may result in electric shock.

**5. Never install the camera in areas exposed to oil, gas or solvents.**

Oil, gas or solvents may result in equipment failure, electric shock or, in extreme cases, fire.

**6. Cleaning**

For cameras with interchangeable lenses, do not touch the surface of the sensor directly with the hands. Use lens tissue or a cotton tipped applicator and ethanol to clean the sensor and the camera lens. Use a damp soft cloth to remove any dirt from the camera body. Please do not use complex solvents, corrosive or abrasive agents for cleaning of any part of the camera.

**7. Do not operate the camera beyond the specified temperature, humidity or power source ratings.**

This camera is suitable for indoor operation only. Use the camera at temperatures within -10°C ~ +50 °C (14°F~122°F) and humidity between 20% and 80%. This device is not rated as submersible. The input power source is 12VDC.

**8. Mounting**

Use care in selecting a solid mounting surface which will support the weight of the camera plus any wind, snow, ice or other loading, and securely attach the camera to the mounting surface using screws and anchors which will properly support the camera. If necessary (e.g. when mounting to drop ceilings) use a safety wire to provide additional support for the camera.

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**Product Overview**

The EverFocus ECD360AV is an indoor color camera with plastic housing, clear dome to pass the maximum amount of light, and integral dome liner to conceal the viewing direction. The 3-axis positioning system allows convenient wall or ceiling mounting without the need for brackets, and permits the lens to be aligned in virtually any viewing direction. Equipped with a Sony 1/3” Super HAD high resolution 540 line sensor and 3.5~8mm varifocal DC iris lens, the field of view can be readily adjusted to suit the application while the auto iris function adapts to a wide range of lighting conditions. The camera draws only 150mA from a 12VDC

supply; to use this camera with a 24VDC supply system, accessory 24VDC/12VDC converters are available. With its excellent low light sensitivity of only .12 lux, 3 axis positioning and varifocal lens, the ECD360AV suits a wide variety of indoor surveillance applications.

## **FEATURES**

- Indoor 3-axis color dome camera
- SONY 1/3" Super HAD CCD sensor
- Integral dome liner conceals viewing direction
- 3-Axis bracket for easy installation.
- Built-in Vari-focal DC-drive 3.5~8.5mm auto iris lens
- Excellent low light sensitivity of only .12 lux minimum illumination
- Employs Digital Signal Processor (DSP) chip-set for image control.
- High resolution 540 TV lines
- High sensitivity, low smear, high anti-blooming and high S/N ratio.
- Built-in functions: Auto Electronic Shutter (AES), Auto Gain Control (AGC), Auto White Balance (AWB).

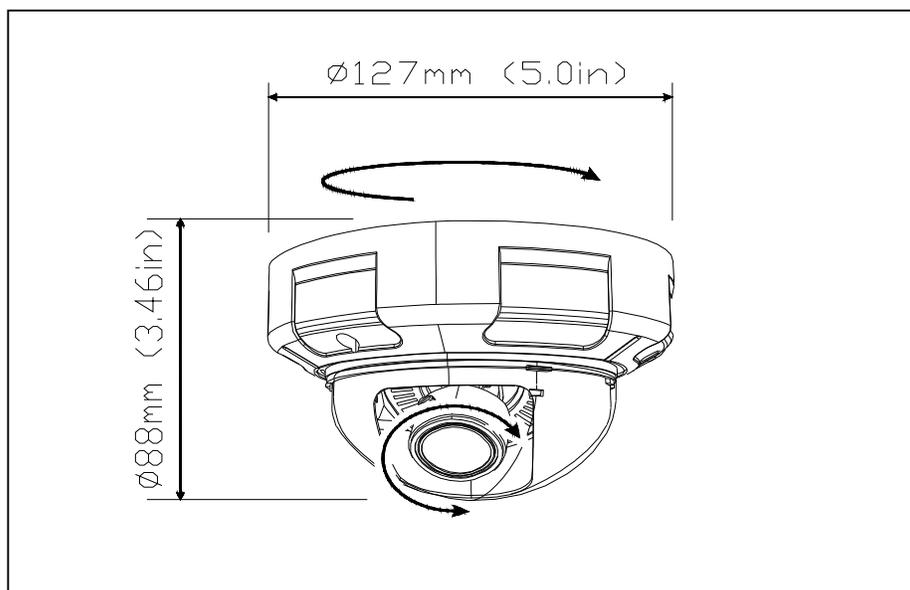
## **Box Contents**

Camera  
This User Guide  
Mounting Screws (4) and hollow wall adapters  
Power adapter pigtail  
Mounting Template

## SPECIFICATIONS

<b>Image Pick-up Device</b>	SONY 1/3" Super HAD CCD High Resolution
<b>Effective Picture Elements</b>	NTSC: 768*494, PAL: 752*582 (H*V)
<b>Horizontal Resolution</b>	540 TV lines
<b>Minimum Illumination</b>	0.12 LUX @ F1.6
<b>S/N Ratio</b>	More than 48 dB
<b>Auto Electronic Shutter</b>	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/110,000s
<b>Gain Control</b>	Automatically
<b>White Balance</b>	ATW (2500°K~9500°K)
<b>Gamma Characteristic</b>	0.45
<b>Lens Furnished</b>	3.5~8.5mm/F1.6 Vari-Focal DC-drive auto iris lens
<b>Synchronous System</b>	Negative sync. Internal
<b>Video Output</b>	1 Vp-p Composite Video / 75 ohm
<b>Power Supply</b>	DC 12V / 150 mA
<b>Operating Temp.</b>	-10°C to 50°C (14°F to 122°F)
<b>Dimensions</b>	127mm/5.0" (Φ) x 88mm/3.46" (H)
<b>Weight</b>	210g/0.462 pounds

## DIMENSIONS



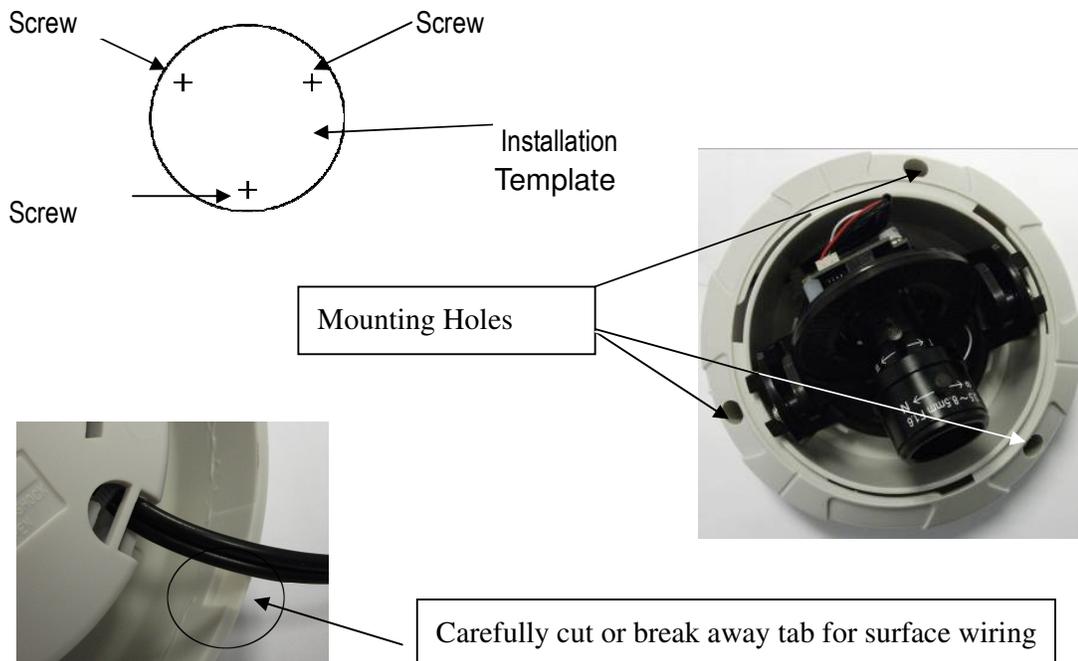
## INSTALLATION

### Warning

- To prevent electrical shock, turn off the electrical power before making electrical connections.

### Drill the Holes

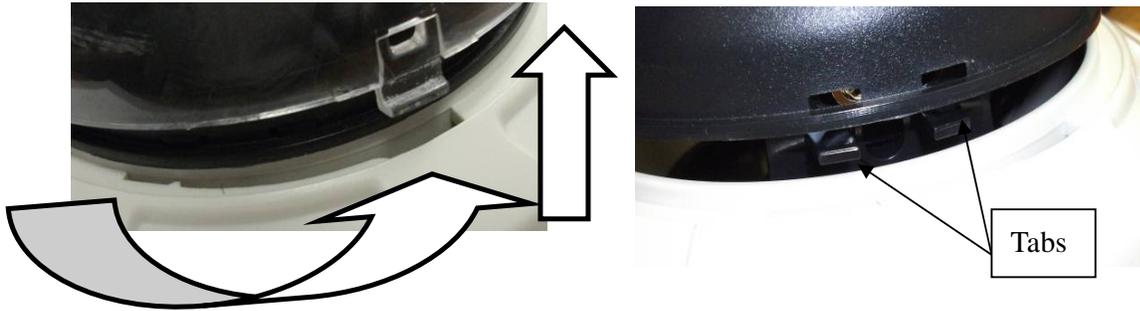
1. Locate a solid location which can bear the weight of the camera, and which is free of other electrical wires or other hazards.
2. Place the drilling template on the ceiling or wall
3. Drill 3 or 4 holes, 3 for mounting screws A, B and C, 1 for power/video cable if wires will be hidden. If surface wiring will be used, break out the thin area in the base to clear the wire opening.



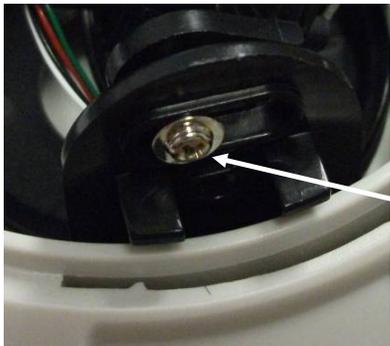
Remove the clear dome by twisting CCW about 1/8 turn and lift it off. Carefully disengage the black dome liner from the tabs on each side and lift it off. Set these aside where they will not be damaged.

Connect the camera power and video (observe polarity for power – connecting reverse polarity will damage the camera and void the warranty). Point the lens generally in the desired direction and attach the camera body to the mounting surface with the screws provided.

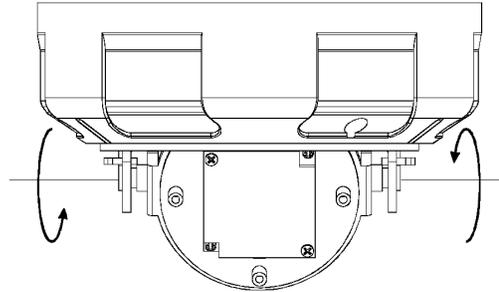
To remove dome and liner:



Loosen the screws which lock the tilt mechanism. Rotate the pan and tilt mechanisms to point the camera in the desired direction. Rotate the camera module on its axis if necessary to align the image 'upright'. Loosen the lens adjusting screws and adjust the lens to obtain the desired field of view and focus.



Tilt lock  
2 places



Lens adjust



Lock the lens and tilt screws. Replace the dome liner and the dome, twisting the dome CW to lock it in place.

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