



*Illuminator*® Series  
Covert Day/Night Camera  
PIR Case with built in invisible IR LEDs

Model No. **ECMD100i**



Operation Instructions

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 30% and 80%. The input power source is 12VDC. Regulated power supply required.

**8. Mounting**

Use care in selecting a solid mounting surface which will support the weight of the camera 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 *Illuminator® Series* ECMD100i covert PIR case camera is based on a Sony Super HAD II Color CCD to produce high quality color images with a minimum of 600 horizontal TV lines of resolution (700HTVL in monochrome mode). Hidden behind a window that appears white to the eye but is transparent to IR, this unique camera incorporates 24 ‘invisible’ IR LEDs for **clear images in low or NO illumination**. These ‘fully covert’ IR LEDs show no red glow (940nm wavelength), but can capture subjects to distances of 32 feet or more when the lights are off.

This PIR look camera is equipped with an easy to use snap-on bracket that allows 3-axis positioning. While the camera does not contain an actual PIR motion detector device, the camera does include a video motion detection ‘pixel change’ output (open collector type) output if local signaling is required.

Looks like a PIR, works like an IR - with no telltale ‘red glow’. This is the covert PIR style camera you have been waiting for to deploy indoor covert surveillance that is virtually undetectable yet quietly delivers highly detailed images in *total darkness*.

## Main Features

- PIR Case with Built in Invisible IR LEDs (24 LEDs)
- 32’ or more IR range (depends on IR reflectivity)
- 1/3” Sony Super HAD II Color CCD
- High Resolution of 600TVL color, 700TVL B/W
- Digital WDR
- Digital Noise Reduction
- 3.7mm Pinhole Lens
- Built in Motion Detector with Alarm Output (TTL)
- DC 12V

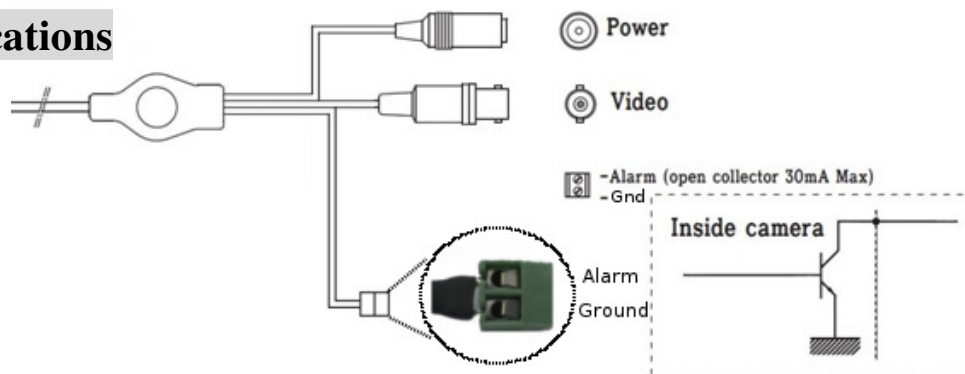
## Box Contents

- Camera
- This User Guide
- Mounting Screw (2)
- Mounting Bracket
- Power pigtail

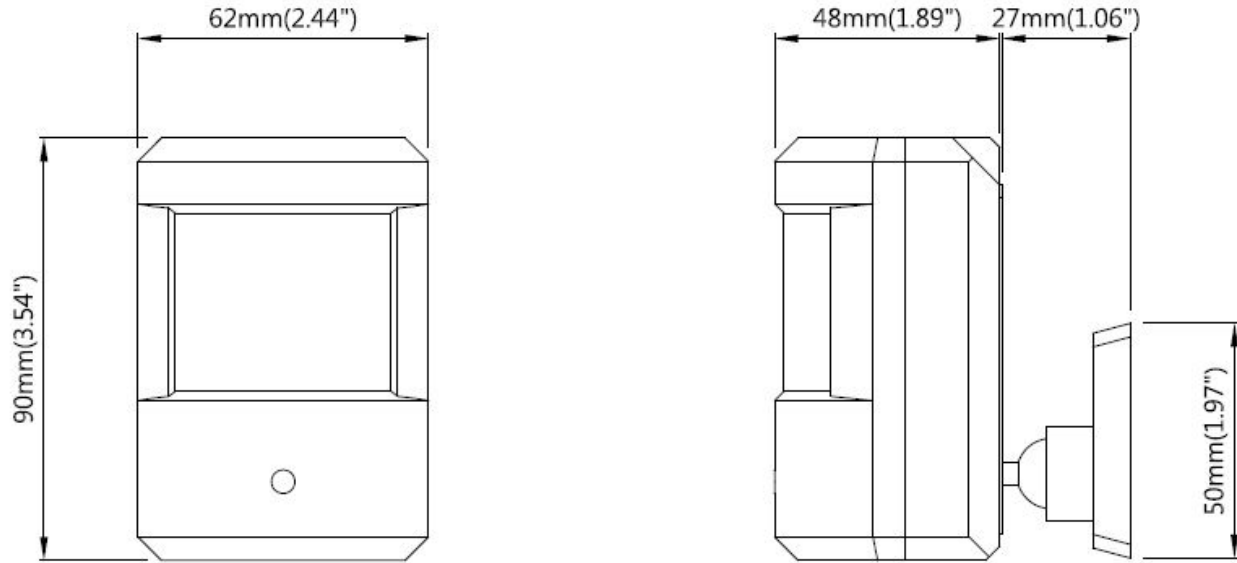
## Specifications

Model	ECMD100i
Imaging Device	1/3" Sony Super HAD II Color CCD
Effective Picture Elements	NTSC: 768(H) x 494(V) PAL: 752(H) x 582(V)
Horizontal Resolution	Color : 600TV lines B/W : 700 TV Lines
Scanning System	2:1 Interlace
S/N Ratio	More than 50dB
IR LEDs	24 LEDs with wavelength of 940nm
IR Range	32 feet or more (depends on scene and subject IR reflectivity)
Minimum illumination	0.1 Lux – at F1.4 0.000 Lux (IR ON)
Digital Noise Reduction	2D DNR On
Digital Wide Dynamic Range	DWDR On
Power Source	12VDC $\pm$ 10%
Power Consumption	70mA Nominal / 300mA IR ON
Operating Temperature	-10 °C to 50 °C (14 °F~122 °F)
Operating Humidity	30% to 80%
Lens	Pinhole Lens 3.7mm
Dimensions	Body: 62(W) x 90(H) x 48(D)mm / 2.44"(W) x 3.54"(H) x 1.89"(D) Mount adds minimum 27mm/1.06" to depth (see drawing)
Weight	120 g (4.23 oz)
Certifications	CE / FCC

## Cable Specifications



## Dimensions

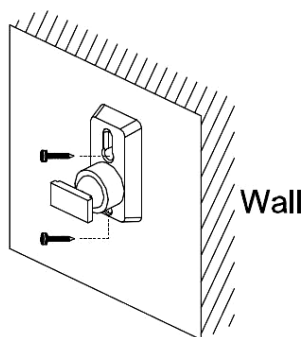


## Installation

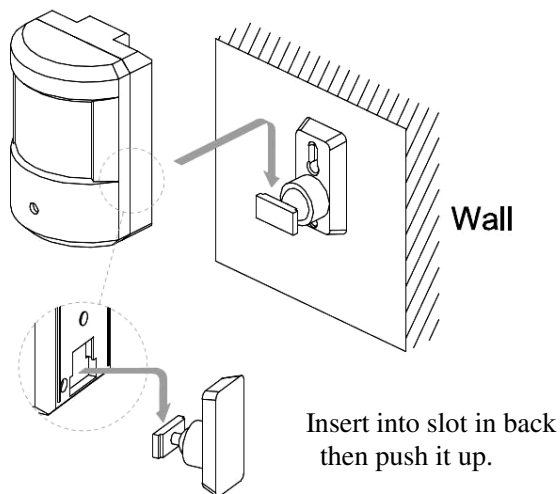
### Warning

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

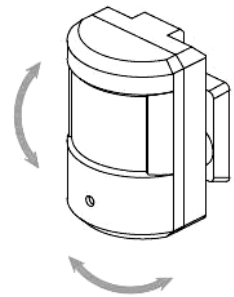
### Step.1



### Step.2



### Step.3



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