



EVERFOCUS

1/3" CCD Outdoor Vari-Frequency IR Camera Operation Instructions

Model No. **ECZ330E/230E**

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 have camera immersed in water.
2. Do not disassemble it or place it on an unstable base.
3. Do not touch the surface of CCD sensor by hand directly.
4. Never face the camera toward the sun.
5. Use proper power source otherwise the camera will not function correctly.
6. Use the camera at temperatures within $-10^{\circ}\text{C}\sim 50^{\circ}\text{C}$ ($14^{\circ}\text{F}\sim 122^{\circ}\text{F}$) and humidity between 20%~ 80%. The input power source is 12VDC.

INTRODUCTION

The ECZ330E/230E series of cameras contain a CCD camera in a stylish and attractive weatherproof housing. ECZ330E/230E series uses a 1/3" Sony super HAD CCD sensor with low Lux performance. This Day & Night camera allows users to execute 24 hours surveillance. Even in low Lux condition (0 Lux), ECZ330E/230E camera's performance is still brilliant.

FEATURES

- High Resolution 520 TVL (ECZ330E)
- Standard Resolution 380 TVL (ECZ230E)
- 0 Lux when IR LED is ON
- Intelligent Vari-frequency of IR control
- IP66 Weatherproof rated
- Easy installation
- Save electricity
- Auto Electronic Shutter function
- Automatic Gain Control function
- Auto White Balance function
- View angle 50~78 degree-range, IR distance 10~15 meters / 33~49 feet
- Low light sensitivity 0.4 Lux/F=1.2 (AGC ON) is achieved by using the advanced 1/3" interline transfer color CCD. – ECZ330E High Resolution model
- Low light sensitivity 0.3 Lux/F=1.2 (AGC ON) is achieved by using the advanced 1/3" interline transfer color CCD. – ECZ230E Standard Resolution model
- Lifespan of IR LED is 20,000 hours

Vari-frequency of IR control:

The brightness of IR LED will be adjusted according to environment's lighting. When the environment is dark, LED's brightness will be increased. By contrast, when the environment is brilliant, LED's brightness will be decreased, as a result to save power consumption.

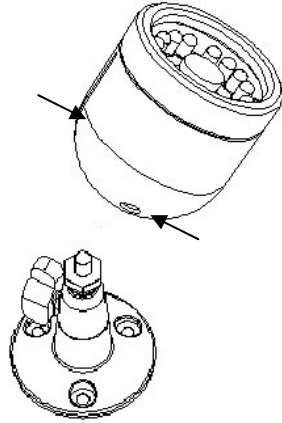
When an object approaches the camera, LED's brightness will automatically be adjusted as well. Consequently, image will not be overexposed nor result vibration.

PACKAGE LIST

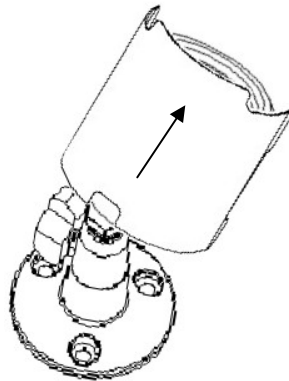
- Camera unit
- Operation Instructions (this document)
- Sun shield
- Mounting bracket

INSTALLATION

1. Connect the camera with the mounting bracket (supplied).



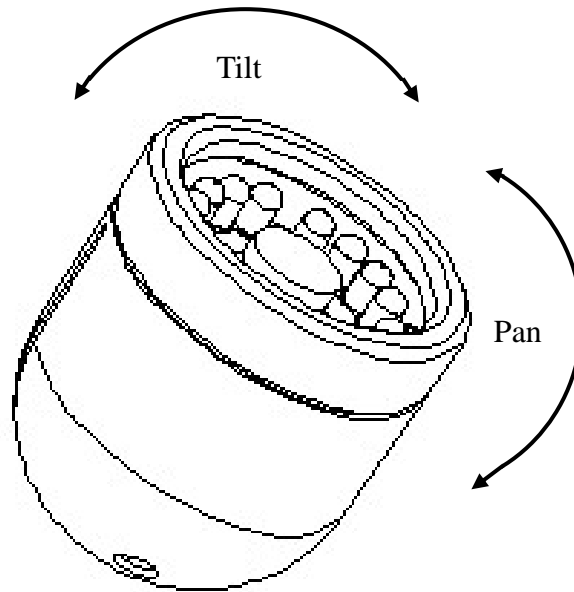
2. Reassemble the weatherproof housing with the camera.



3. Connect the BNC connector of the camera to a monitor or other video device through a 75 ohm type coaxial cable with BNC female connector at cable extension.
4. Connect the 12VDC regulated power source of the camera (DC Jack) to the 12VDC power-in jack with 2mm, center+ outer- plug.

ADJUSTMENT

You can manually adjust the pan/tilt to aim the camera at what you need to watch until the best angle of image is obtained.



SPECIFICATIONS

Type	ECZ230E	ECZ330E
Pickup Device	1/3" SONY Super HAD CCD	
Video Format	NTSC or PAL	
Scanning System	NTSC: 525 TV lines, 60 fields/sec PAL: 625 TV lines, 50 fields/sec.	
Picture Elements	510 x 492 (NTSC) 500 x 582 (PAL)	768 x 494 (NTSC) 752 x 582 (PAL)
Horizontal Resolution	380 TV Lines	520 TV Lines
Sensitivity	0.3 Lux/F=1.2 (AGC ON) 0 Lux (IR LED on)	0.4 Lux/F=1.2 (AGC ON) 0 Lux (IR LED on)
S/N Ratio	Over 48dB (AGC off)	
Electronic Shutter	1/50(1/60)~1/100,000	
Lens Type	Board Lens f=4.3mm / F=2.0; f=6mm/F=2.0; f=8mm/F=2.0 *Lens models and availability vary in different regions	
Back Light Comp.	Yes	
Auto Gain Control	Yes	
Auto White Balance	Yes	
Gamma Correction	0.45	
Video Output	BNC 1.0Vp-p , 75ohm	
Sync. Mode	Internal sync	
IR Distance	4.3mm lens: 10M /33feet 6mm lens: 12M / 39 feet 8mm lens: 15M /49feet	
IR Wavelength	850nm	
IR LED Lifespan	20,000 hours	
IR Control	Vari-frequency	
Weatherproof	IP66	
Power Source	12VDC	
Power Consumption	12VDC: 3W max.	
Dimensions	With sun shield:60.5mm(W) x 59.4 mm(H) x 82mm (D) ; 2.4" (W) x 2.3"(H) x 3.2" (D) Without sun shield:55mm(O.D.) x 60 mm(H) ; 2.2" (O.D) x 2.4"(H)	
Weight	0.3 kg ; 0.7 lbs	
Operating Temperature	-10°C~50°C ; 14°F~122°F (20%~80% Humidity)	
Certifications	FCC/CE (Class A)	

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