

***ECZ 330/230***

**1/3" day / night camera with IR-LED**



**Installation and**  
**Operation**

**Table of content**

**Safety Warning** ..... - 3 -

**Introduction** ..... - 4 -

**Features**..... - 4 -

**Delivery scope**..... - 4 -

**Technical specification** ..... - 5 -

**Installation**..... - 6 -

# SAFETY WARNING

---

## Safety Warning

- **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, as the magnetic fields generated from a.m. devices will distort the video image.
- **Do not operate the camera beyond the specified temperature, humidity or power source ratings.**  
Use the camera at temperatures within  $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$ . Avoid temperature extremes to prevent condensation.
- **Never face the camera towards the sun.**  
Direct sunlight or severe rays may cause fatal damage to both sensor and internal circuit.
- **Cleaning**  
Do not touch the CCD sensor surface or the front filter directly by hand. Use a soft cloth with methanol to clean both sensor and filter. Disconnect the camera before cleaning. When the camera is not in use, the lens should be covered by the lens cover cap.
- Keep the camera away from liquids and extreme moisture.
- The camera may be opened by authorized personnel only.

This is a **Class B** product which can be used in commercial and limited industrial areas.



Your EverFocus product is designed and manufactured with high quality materials and components which can be recycled and reused. This symbol means that electrical and electronic equipment should be disposed of separately from your household waste at their end-of-life.

Please dispose of this equipment at your local community waste collection / recycling centre. In the European Union, there are separate collection systems for used electrical and electronic products.

Please help us to conserve the environment we live in!



This product is RoHS compliant.



The information in this manual was current upon publication. The manufacturer reserves the right to revise and improve his products. Therefore, all specifications are subject to change without prior notice. Misprints reserved.

Please read this manual carefully before installing and using this unit. Be sure to keep it handy for later reference.

# INTRODUCTION

---

## Introduction

The ECZ 330 / 230 camera series contain a CCD camera in a stylish and attractive weatherproof housing. ECZ 330 / 230 series use a SONY high sensitive 1/3" colour interline transfer CCD sensor with low lux performance.

## Features

- 14 IR-LED, controlled by internal twilight switch
- IR-LED lifetime up to 50.000 h
- day / night switching with light sensor

## Delivery scope

- ECZ 330 / EBD 230 camera unit (according to purchase order)
- Installation / operation manual
- Camera bracket
- Sunshield
- Accessory pack

# TECHNICAL SPECIFICATION

## Technical specification

	ECZ 330	ECZ 230
<b>Sensor</b>	1/3" SONY CCD	
<b>Picture element</b>	752 x 582 (PAL)	500 x 582 (PAL)
<b>Horizontal resolution</b>	480 TV lines	380 TV lines
<b>Sensitivity</b>	0,5 lux / F = 1.2 (IR-LED off)	0,3 lux / F = 1.2 (IR-LED off)
<b>IR-LED</b>	14x controlled by internal twilight switch	
<b>IR-LED lifetime</b>	up to 50.000 h	
<b>IR range</b>	5 ~ 20 m*	
<b>Video output</b>	1 Vp-p composite PAL	
<b>S/N ratio</b>	over 48 dB	
<b>Gamma correction</b>	0,45	
<b>Synchronisation</b>	Internal	
<b>Back light compensation</b>	Yes	
<b>Auto white balance</b>	Yes	
<b>AGC</b>	Yes	
<b>Electronic shutter</b>	1:50 ~ 1:100.000	
<b>Lens</b>	4,3mm / F2, M12 x P0,5	
<b>Mounting</b>	¼" mounting hole at lower and upper side for camera bracket (included)	
<b>Casing</b>	Aluminium	
<b>Weatherproof rating</b>	IP 66	
<b>Power source</b>	12 V DC +/- 10%	
<b>Power consumption</b>	6W max.	
<b>Ambient temperature</b>	-10°C ~ +50°C	
<b>Dimensions</b>	55 (diameter) x 72 (D) mm (without sunshield) 62 (W) x 58,5 (H) x 82 (D) mm (with sunshield)	
<b>Weight</b>	245 g	

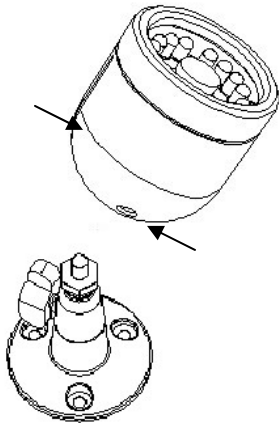
\* The IR illumination range depends on the location, particularly with regard to the reflections of the installation's surroundings. Locating the device near to highly absorbent surfaces can result in a significantly reduced range.

# INSTALLATION

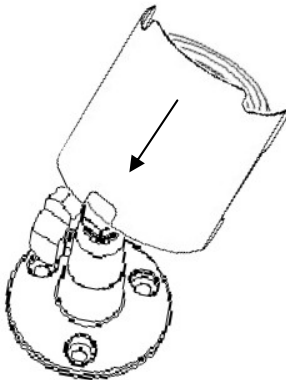
---

## Installation

1. Connect the camera with the included mounting bracket.



2. Assemble the sunshield.

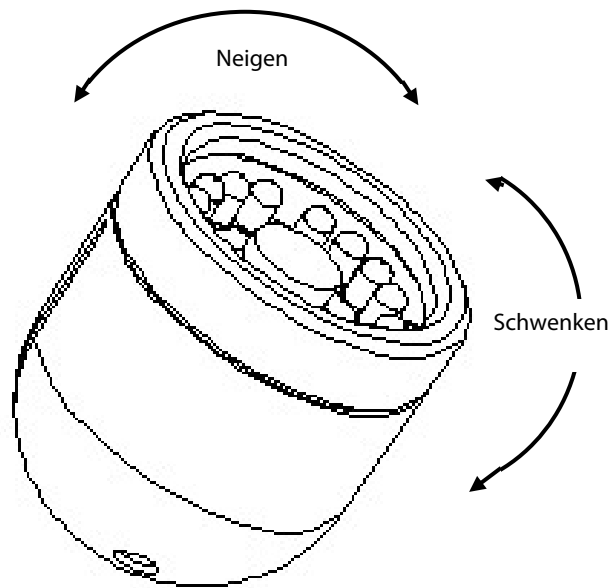


3. Connect the BNC connector of the camera to a monitor or other video device through a 75 Ohm type coaxial cable with BNC female connector at cable extension.
4. Connect the +12 VDC regulated power source of the camera (DC jack) to the 12 VDC power-in jack with 2mm, center+ outer- plug.

## INSTALLATION

---

5. Adjust the pan/tilt manually to reach the best viewing angle.



# EverFocus Electronics Corp.

**Headoffice:**

12F, No. 79 Sec. 1 Shin-Tai Wu Road,  
Hsi-Chih, Taipei, Taiwan  
Fon: +886-2-2698-2334  
Fax: +886-2-2698-2380  
[www.everfocus.com.tw](http://www.everfocus.com.tw)

**US office L.A.:**

1801 Highland Ave. Unit A  
Duarte, CA 91010, USA  
  
Fon: +1-626-844-8888  
Fax: +1-626-844-8838  
[www.everfocus.com](http://www.everfocus.com)

**US office N.Y.:**

415 Oser Avenue Unit S  
Hauppauge, NY 11788, USA  
  
Fon: +1-631-436-5070  
Fax: +1-631-436-5027  
[www.everfocus.com](http://www.everfocus.com)

**European office:**

Albert-Einstein-Straße 1  
46446 Emmerich, Germany  
Fon: +49-2822-9394-0  
Fax: +49-2822-9394-95  
[www.everfocus.de](http://www.everfocus.de)

**China office:**

Room 609, Technology Trade Building,  
Shandgdi Information Industry Base,  
Haidian District, Beijing, China  
Fon: +86-10-6297-1096  
Fax: +86-10-6297-1432  
[www.everfocus.com.cn](http://www.everfocus.com.cn)

**Japan office:**

1809 WBG MARIBU East 18F,  
2-6 Nakase, Mihama-Ku  
Chiba City 261-7118, Japan  
Fon: +81-43-212-8188  
Fax: +81-43-297-0081  
[www.everfocus.com](http://www.everfocus.com)



P/N: ECZ330\_ECZ230\_ma\_en\_rev00