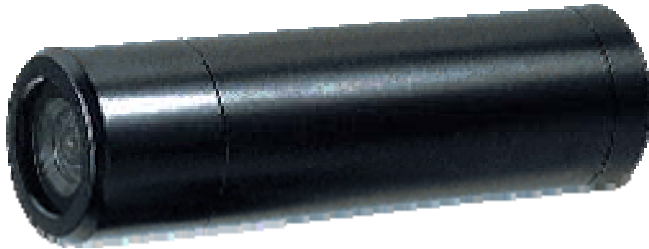


EVERFOCUS



1/3" 550 TVL High Resolution
DSP Color Mini Bullet Camera
Operation Instructions

Model No. **EZ-VF325NH**

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 transmitter, magnet, electric motor, transformer, audio speakers since the magnetic fields generate from above devices will distort the video images.

2. Never disassemble the camera nor put impurities in it.

Disassembly or impurities may result in trouble or fire.

3. Never face the camera toward the sun.

Direct sunlight or severe ray may cause fatal damage to sensor and internal circuit.

4. Keep the power cord away from water and fluid.

Touching the wet power cord may result in electric shock.

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

Use the camera at temperatures within $-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$ (14°F to 122°F) and humidity between $20\% \sim 80\%$. The input power source is 12VDC.

PREFACE

The stylish appearance can be applied as per installer's ideal locations on the ceiling or wall. The mini bullet camera designed with advanced digital processing circuitry for high resolution 1/3" color interline transfer CCD sensor. Very low power consumption of 150mA or less.

FEATURES

- 1/3" Sony Super HAD CCD image sensor with approximately 410,000 pixels.
- 550 TVL of horizontal resolution.
- Revolutionary integrated 10-bit Digital Signal Processor (DSP) delivers sharp color images and excellent picture quality.
- Low light sensitivity 1.0 Lux/F=1.2.
- Wide-range automatic electronic shutter: up to 1/100,000.

PACKAGE CONTENTS

- Camera Unit x 1
- Mounting bracket x 1

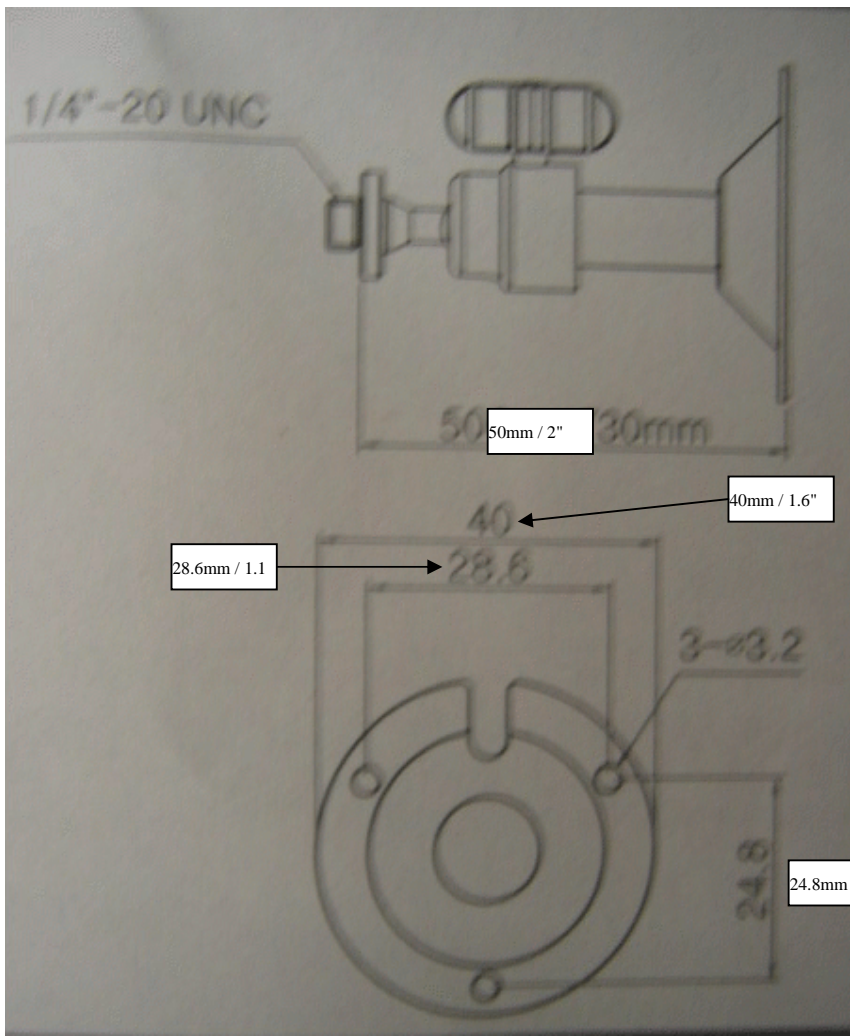
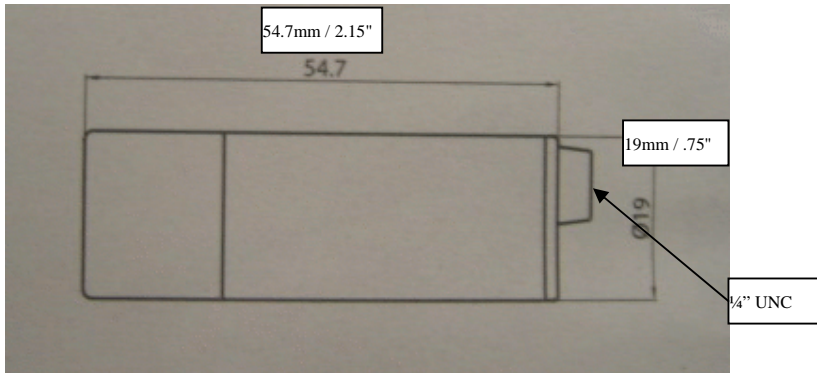


- Screws x 3
- Manual x 1

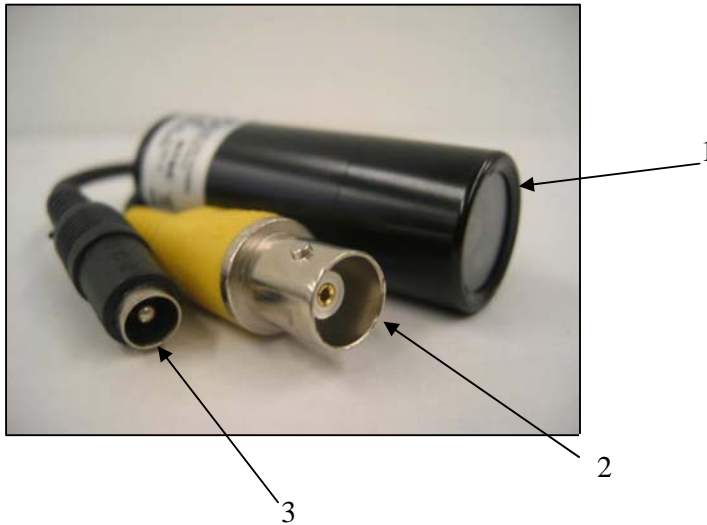
SPECIFICATIONS

Video Format	NTSC
Image Sensor	1/3" Sony ICX638 Super HAD CCD
Scanning System	2:1 Inter lace
Scanning Frequency	H: 15734 KHZ, V:59.94 Hz
Sensitivity	0.2 Lux/F=2.0
Total Pixels	811 (H) x 508 (V), 401k
Effective Pixels	768 (H) x 494 (V), 380K
Horizontal Resolution	550 TVL
S/N Ratio	Over 45B
Electronic Shutter	1/50(1/60)~1/100,000
Lens Type	f=3.6, Fixed Iris
Option	Mirror, Digital Day/Night
Auto Gain Control	Yes
Auto White Balance	Yes
Gamma Correction	0.45
Video Output	BNC 1.0Vp-p, 75ohm
Sync. Mode	Internal Sync
Power Source	12VDC \pm 10%
Power Consumption	90mA max
Dimensions	66 (L) x 19 (W) x 19 (H) mm / 2.6" (L) x 0.75" (W) x 0.75" (H)
Weight	0.3 kg ; 0.7lbs
Operating Temperature	-10°C~50°C ; 14°F~122°F (20%~80% Humidity)

DIMENSIONS



MAJOR PARTS FUNCTIONS



(1) Lens

This Vari-Focal Lens allows users to adjust the Zoom and Focus manually.

(3) Video Output BNC Connector

BNC 1.0Vp-p, 75ohm. Use the connector to connect with the video in connector of a monitor.

(2) Power input

Use the connector to connect with 12VDC power adaptor.

INSTALLATION

This section covers detailed steps of the simple installation. Please follow instructions for preventing any unnecessary damage

1. **Secure camera mounting bracket to mounting surface.**

- a. If Application calls for wires to go through the ceiling or wall, drill a hole on the ceiling or wall.
- b. Mark and drill 3 holes in mounting surface according to the dimensions portion in this manual.



Figure 1-1

- c. Fix the bracket to the mounting service with included screws see figure 1-1

2. Fix camera to mounting Bracket.



Figure 2-1

- a. Install camera on bracket by tuning the camera clockwise on to the 1/4" screw on the bracket until camera is facing up.
- b. Turn the bracket's securing ring to tighten the cameras position.



Figure 2-2



Figure 2-3

Above in figures 2-2, 2-3, are the examples of installation on ceiling or wall.

3. Connect Power and Video



Figure 3-1

- a. Connect pigtail (male power adapter) to the camera female power connector.
See Figure 3-1.
- b. Connect power to pigtail wires (pigtail- male power adapter is purchased separately)

Pigtail Polarity: (Important since DC voltage is used)

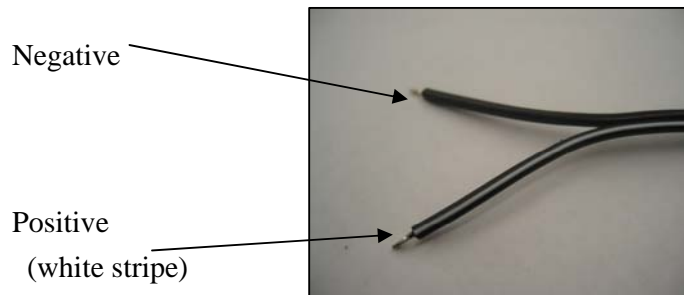


Figure 3-2

Black Wire with white stripe is positive and solid black wire is negative. See figure A4-2.



- d. Connect video cable to a BNC female cable run. See figure A4-3.

Troubleshooting

No power

Check to be certain that you have sufficient current or amperage from the power supply.

Amount of current needed depends on voltage. See this manual's spec. sheet for information on power consumption.

Picture output is horizontal.

Depending on camera will be installed on wall or on ceiling, you may have to remove camera module and rotate it so can install for wall or ceiling. **See Installation A step 2** for explanation and steps.

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