SEverFocus[®]

High Contrast Long Range License Plate Capture Camera

INSTALLATION & OPERATION MANUAL



Before attempting to connect or operate, please read and follow these instructions.

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1. Cautions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions;

- 1. This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Note -

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING -

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Caution -

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

A CAUTION

- An AC24V 1 Amp power supply is recommended for use with this camera for the best picture and the most stable operation.
- It is recommended that the camera is used with a monitor or other equipment that has a CCTV quality 75 video impedance level.
- Do not attempt to disassemble the camera to gain access to the internal components. Refer servicing to the manufacturer.
- Never face the camera towards the sun, any bright, or reflective light that may cause smear on the picture or cause possible damage to the CCD.
- 5. Do not remove the serial number sticker.

1. Cautions



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicate that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

This product should not be mixed with other commercial wastes. Contact the company where you purchased this product or your local government office for details on how to properly dispose or recycle the product to be environmentally safe.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

Household users should contact the retailer for proper disposal procedures.



CAUTION





CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICING TO OUAL HIELD SERVICE PERSONNE!



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

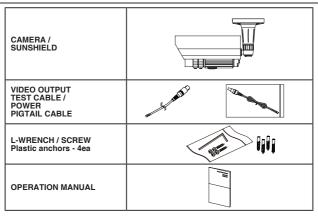


This symbol is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance.

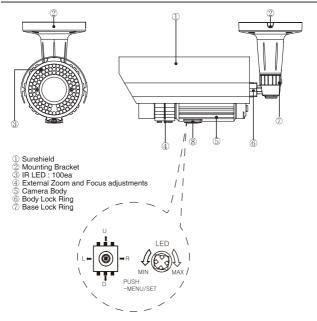
2. Features

- 1/3" Sony Super-HAD II CCD
- OSD Menu system customizes performance to match application
- High Resolution 600TV Lines
- Special filter and IR LEDs provide maximum readability despite headlight glare
- Plate capture up to 75mph (120Km/H)
- 5.0 ~ 50.0mm Vari-focal lens captures license plate from 16ft ~ 90ft (5M ~ 28M)
- · IP65 rated weather resistant
- · Cable concealed through bracket
- AC24V power with auto-polarity (DC12V operation requires 1.5 Amp minimum power supply)

3. Items Provided In The Box



4. Component and Control Names and Functions

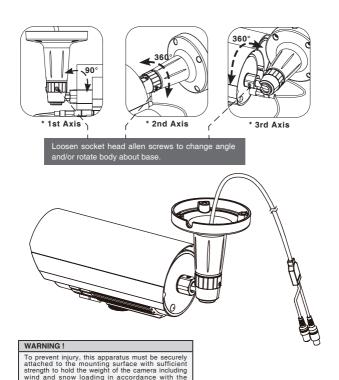


LED Level : LED brightness – Adjusting brightness of the LED (Factory default setting Level : Max)

5. Installation

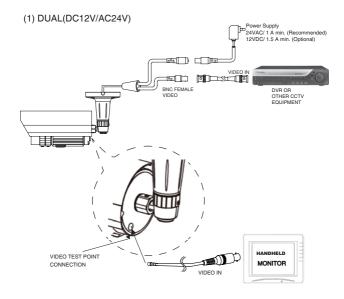
installation instructions.

ADJUSTING CAMERA POSITION



5. Installation

CONNECTIONS





When you install the camera, please seal the end of cable to protect the camera connections from humidity problems.

6. OSD Functions

OSD Menu Structure

OSD Access

To access OSD menu unscrew cover plate on bottom of camera, press "in" on joystick to access OSD Menu.

MODE

- INSTALLATION

Installation Mode provides a bright video screen to adjust angle and focus.

- LICENSE-PLATE

License-plate Mode provides high contrast and clear license plate image for license plate capture.

SETUP

► MODE LICENSE-PLATE NEG. IMAGE OFF EXIT

NEGATIVE

User can select positive or negative image.

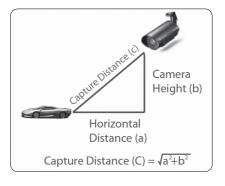


SETUP

MODE LICENSE-PLATE ► NEG. IMAGE OFF FXIT

Camera Height

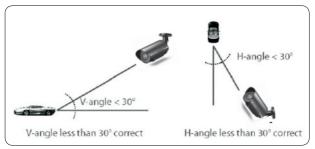
- · Consider camera height in distance calculation.
- Sharper angles will alter the appearance of the plate. (Shallow angles are recommended)



Camera Height (Ft)	Horizontal Distance (Ft)	Capture Distance(Ft)
10	10	14.14
11	20	22.83
12	30	32.31
13	40	42.06
14	50	51.92

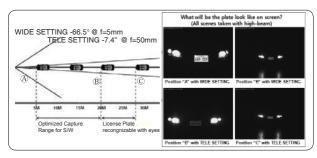
Camera Angles

 Vertical and horizontal angle must not exceed 30 degrees to achieve proper view of the license plate.



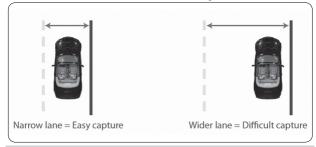
Capture Zone

- · Wider angles provide shorter capture distance.
- Tele angles provide longer capture distance.



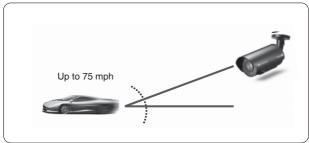
Lane Width

- Narrow lanes = less variation in plate location.
- Wider lanes = more variation in plate location.
- Lens should cover entire width of the lane.
- Ensure horizontal field of view is wide enough.



Speed

- Camera can capture moving vehicles up to 75mph.
- Keep camera as low as possible.
- Minimize horizontal angle.
- Zoom in the lens as close as possible.



DVR

- · Camera is fully compatible with industry standard DVRs.
- · Check compression settings.
- For best results use non-conditional refresh compression.
 (i.e. MJPEG or JPEG)
- (Other Video codecs can sometimes cause an indistinct picture)

 Use D1 (720x480) resolution for best results.
- Use 30fps (each channel) for best results.

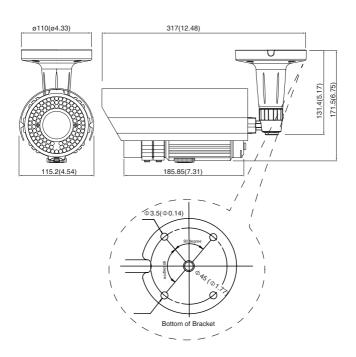
8. Specifications

Signal Format		NTSC	PAL	
Image Device		1/3" Sony Super HAD Ⅱ CCD		
Total Pixels		811(H) x 508(V)	795(H) x 596(V)	
Effective Pixels		768(H) x 494(V)	752(H) x 582(V)	
Inter. H/V		15.734KHz(H), 59.94Hz(V)	15.625KHz(H), 50Hz(V)	
H.Resolution		600TV Lines		
Minimum illumination		0 Lux (IR LED ON)		
S/N Ratio		More than 50dB (AGC Off)		
Sync System		Internal		
Video Output		1.0 Vp-p Composite(75Ω)		
Lens		Varifocal(5~50mm) Auto Iris		
IR LED		850nm, 100ea		
IP Rating		IP65		
License Plate Capture	Speed Rage	Up to 75mph (120km/h)		
	Capture Distance	16ft ~ 90ft (5m ~ 28m)		
	Capture Angle	Maximum 30 degree offset		
Operating Temperature		14°F~122°F(-10°C ~ +50°C)		
Storage Temperature		-4°F~140°F(-20°C ~ +60°C)		
Power Consumption		DC12V ±10% Max 1.5A AC24V ±10% Max 24W		
Heater		Built in Thermostat Control		
Weight		Approx. 1800g (3.97lb)		
Dimension		115.2mm x 164.5mm (4.54inch x 6.47inch)		

Specifications and designs are subject to change without notice for improving the functionality of this product.

9. Dimensions

unit: mm(inch)



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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, at their end-office, should be disposed of separately from your household waste. Please, dispose of this equipment at your local community waste.

from your household waste. 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 product. Please, help us to conserve the environment we live in! Ihr EverFocus Produkt wurde entwickeit und hergestellt mit qualitätiv hochwertigen Maketaialien und Komponenten, die recycelt und wieder verwendet werden körnen. Dieses Symbol bedeutet, dass elektrische und elektronische Geräte am Ende ihrer Nutzungsdauer vom Hausmild geternt entslorgt werden

Bitte entsorgen Sie dieses Gerät bei Ihrer örtlichen kommunalen Sammelstelle oder im Recycling Centre Helfen Sie uns bitte, die Umwelt zu erhalten, in der wir leben!

