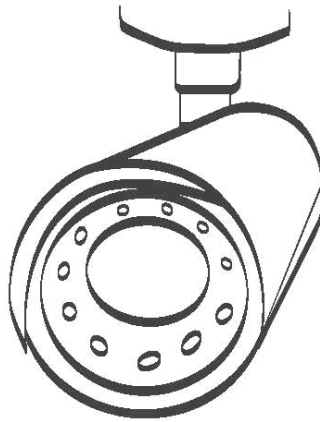


Plate-Capture Camera Installation Guide



ZEIM-4000333G 505 A.3

Table of Content

1. Notice of Use	3
2. Product Overview	4
2.1 Camera Parts Definition	6
2.2 Specification	7
3. Mounting Specification & Installation Instruction	8
3.1 Package Content	8
3.2 Mounting Specification	8
3.3 Camera Installation	9

1. Notice of Use

- ◆ Follow all instructions. All requirements should be followed before using this camera.
- ◆ The manufacturer is not responsible for any technical or typographical errors and reserves the rights to this manual without notice.
- ◆ Keep this document for future reference.
- ◆ Install it with applicable outdoor housing and accessories.
- ◆ Please make sure the power source is DC12 V/AC 24 V. Only connect to the camera to this required power systems.
- ◆ The camera must be installed on a solid mounting surface.
- ◆ Store the camera and other accessories in a dry place.
- ◆ The manufacturer is not responsible for any damage caused by inappropriate use.

2. Product Overview

The Plate-Capture Camera is a high-performance plate-capture camera, equipped with a 1/3" SONY CCD. The Plate-Capture Camera's outstanding feature set ensures seamless integration and enhanced performance when used in conjunction with external License Plate Recognition (LPR) software.

Outfitted with powerful 850 nm IR, the Plate-Capture Camera works perfectly even in total darkness to deliver clear plate images. Its varifocal IR-corrected lens keeps it in focus day and night, optimizing performance even in very low light conditions. In short, the Plate-Capture Camera provides the kind of reliability and round-the-clock surveillance-and-capture capabilities crucial to maximizing the efficiency of LPR applications.

High Contrast Image

The Plate-Capture Camera features high-contrast imaging performance that delivers sharp, clear license-plate captures, even of vehicles moving at 90km/h, in bad weather, and in low-light conditions.

Powerful IR

Its powerful IR functionality and IR-corrected lens deliver perfect image captures and outstanding images all day long. It is also equipped with a high-power LED to help minimize energy usage.

Wide Range Capture

Its built-in 9-22mm lens captures a wide 3-8 m(10-27 ft) field.

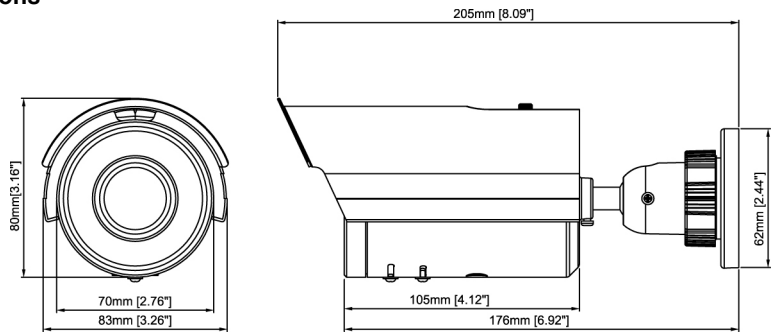
Rain Guard/ Extendable Sunshield

The camera's rain guard and extendable sunshield minimize the effects of rain and sunlight on image quality.

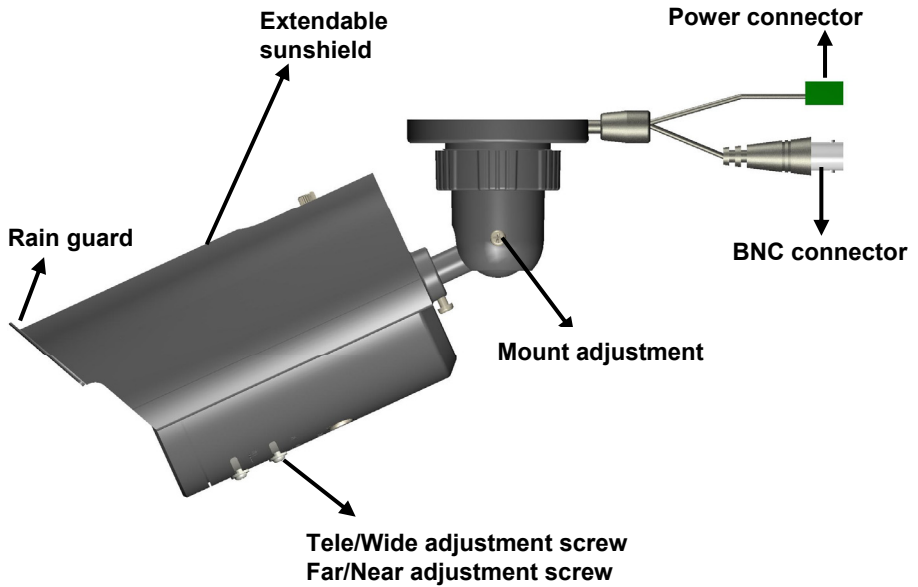
Easy Installation

The cable-management bracket enables easy installation in any location, including walls, surfaces, and ceilings.

Dimensions



2.1 Camera Parts Definition



- ◆ Rain guard/extendable sunshield: minimize the effects of rain and sunlight on image quality.
- ◆ Tele/Wide and Far/Near adjustment screws: lens adjustment
- ◆ Mount adjustment: easy to mount at different angles
- ◆ BNC connector: video output
- ◆ Power connector: DC12V/AC24V

2.2 Specification

Image system		
Signal system	NTSC	PAL
Image Sensor	1/3" SONY CCD	
Effective pixels(HxV)	768 x 494	752 x 582
Electric		
Scanning system	2:1 Interlace V: 59.94Hz,	2:1 Interlace V: 50Hz,
	H: 15.734KHz	H: 15.625KHz
Sync system	Internal	
Horizontal resolution	600 TV lines	
Built-in lens	f=9mm ~ 22mm, F1.4 DC iris varifocal IR-corrected lens External adjustments (zoom and focus)	
View angle	Horizontal: 32.1°(wide) ~ 13.1°(tele) Vertical: 23.3°(wide) ~ 9.8°(tele)	
Gamma correction	0.45	
Minimum illumination	IR LED ON: 0lux	
S/N ratio	More than 50dB (AGC off)	
BLC	Auto(Center Weighting)	
Video output	1Vpp composite output, 75 ohm	
IR LED	Super power LED 36pcs	
IR wavelength	850nm	
IR distance	15 Meter (50 ft.)	
Capture range	3~8 Meter (10~27 ft.)	
Capture speed	up to 90 km/h (56 mph)	
LED life	More than 10,000 hours (50°C/122°F)	
Power supply		
Power requirement	DC12V/AC24V	
Power consumption	10W (max.)	
Environment		
Operating temperature	-10°C ~ 50°C (13.9 °F ~122°F)	
Operating humidity	30 ~ 90% RH	
Storage temperature	-20°C ~ 60°C (-4°F~140°F)	
Mechanism		
Dimensions(øxH)	ø83mmx205mm (ø3.26" x 8.09")	
Weight	610g (1.35 lb)	
Construction	Sunshield ; Cable management bracket Compact die-cast aluminum ; Tempered Glass	
Protection class	IP66 ; Vandal-resistance	

3. Mounting Specification & Installation Instruction

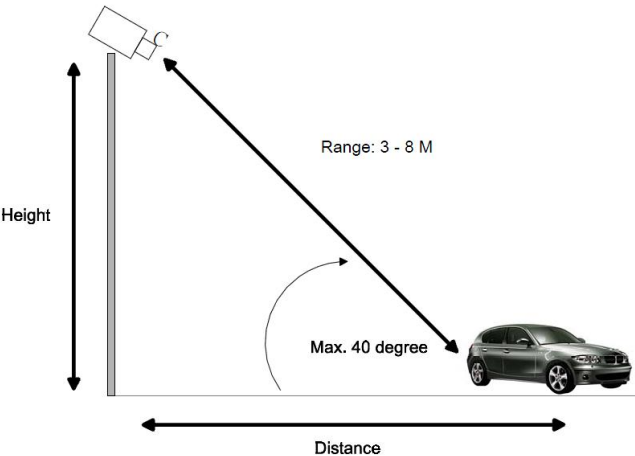
Please follow the mounting specification to install the Plate-Capture Camera camera.

3.1 Package Content

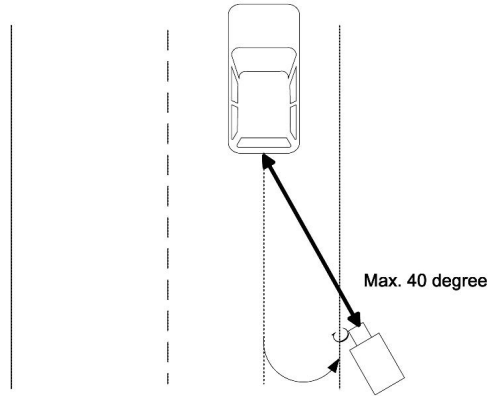
Item	Description
plate-capture camera	assembly camera
rubber pad	static electricity protection
3 insulation tubes	static electricity protection
guide pattern sticker	for marking hole easily
3 self-tapping screws	for mounting
3 plastic anchor	for cement ceiling mounting
printed material	installation guide, notice card

3.2 Mounting Specification

1. Use appropriate screws and select an appropriate location to install the camera.
2. Ensure the mounting surface can support to carry the weight of the camera.
3. Suggest the width of the license plate covers approximately 17-20% of the width of the screen.
4. Suggest the camera stand height is more than 90 cm.
5. Suggest the vertical angle is less than 40 degree.



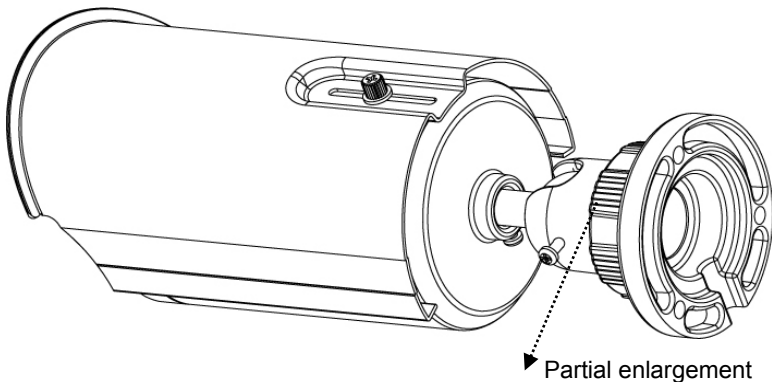
6. Suggest the horizontal angle is less than 40 degree. This camera is designed to cover only one lane (less than 3 meters).

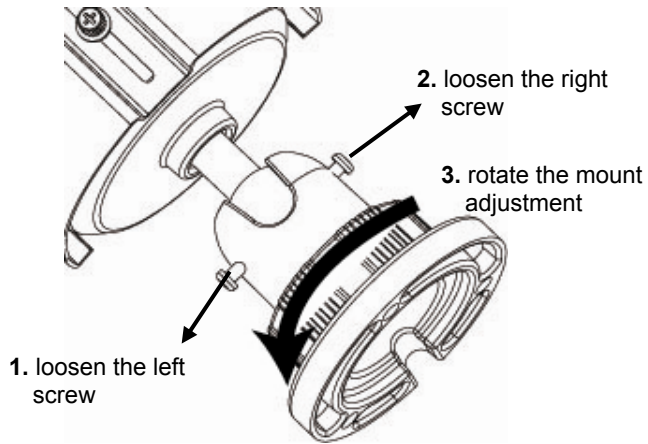


7. If work with DVR, make sure your DVR has the de-interlace feature and the frame rate is above 15 fps for optimal effect.
8. To ensure an optimal view, please adjust the lens under the limitation we suggest.

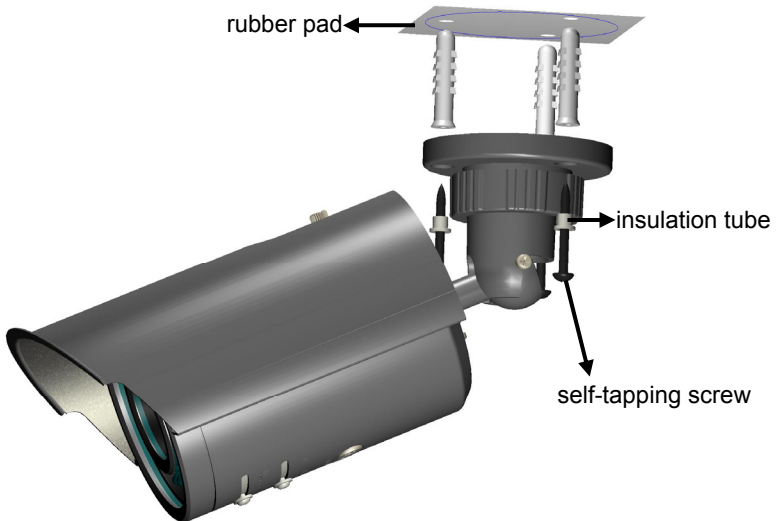
3.3 Camera Installation

1. **Mark hole positions:** use the guide pattern sticker to mark hole positions on the desired location. If you want to mount the camera on the cement ceiling, insert the plastic anchor into holes which you drill on the cement ceiling first.
2. **Adjust a mounting angle:** Loosen the left and right screws first and then rotate the mount adjustment counterclockwise to adjust a desired angle for mounting. Finally, fasten the screws and rotate the mount adjustment clockwise to fix the desired angle.





3. **Install the camera:** use an appropriate tool to lock 3 self-tapping screws to fasten the camera. For static electricity protection, please use the rubber pad to cover the metal mount adjustment and put 3 insulation caps through the metal screws when locking 3 self-tapping screws into the desired location.



4. **Adjust the lens:** Loosen the screws and make the Far/Near and Tele/Wide adjustments. After adjustments, make sure to tighten the screws to keep the camera waterproof. It's suggested to manually tighten the screws. If using an electric screwdriver, a torque of 5~8 kgf-cm is suggested.



Warning: please don't loosen these two screws to avoid water leaking.

Warning: please do not adjust the Tele/Wide or Far/Near screw out of the instruction line to avoid damage to the lens.

5. **Adjust the sunshield:** loosen the screw counterclockwise, move the sunshield forward or backward and then turn the screw clockwise to fix the position of the sunshield. Be sure to adjust the sunshield in coordination with the lens to avoid sunshade problem.

move forward/backward

