



# GV-LPR CAM V1.6 Installation Guide

Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.

## Models

GV-LPR CAM offers a selection of models that support different video formats to meet various needs. This installation guide will take you through the functionality and use of GV-LPR CAM.

### List of Models

Model	IR Optimal Distance	Video Format
GV-LPR CAM 10M EIA DC12V	10 m / 32.80 ft	NTSC
GV-LPR CAM 10M CCIR DC12V	10 m / 32.80 ft	PAL

### Packing List

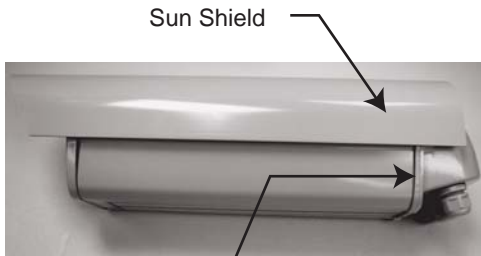
- AC Power Cable (110-125V, 10A) x 1
- Power Adapter (100-240V, 12V/3A) x 1
- Outdoor Mounting Bracket x 1

### Specifications

Model	GV-LPR CAM 10M EIA DC 12V	GV-LPR CAM 10M CCIR DC 12V
Sensor	1/3" B/W EXview CCD	
Resolution	570 TVL	
Lens Focal Length	5 ~ 50 mm, 10X	
Construction	Robust aluminum with weatherproof sun-shield	
Protection classification	IP 66	
Temperature	Operation: -20°C ~ 50°C / -4°F ~ 122°F Storage: -20°C ~ 70°C / -4°F ~ 158°F	
Power Supply	DC 12V	
Power Consumption	15W	
LED Quantity	7 high-efficient LEDs	
IR Distance	12 m / 39.37 ft 7 ~ 12 m / 22.96 ~ 39.37 ft (optimal)	
Illumination View Angle	30°	
Illuminator Life	25,000 hrs	

# Installing Camera Module

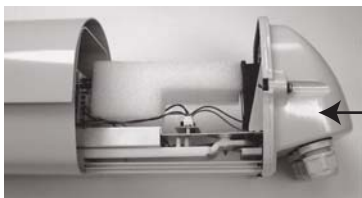
1. Push the sun shield forward to align with the back of camera enclosure.



2. Loosen the set screws on the back of the camera enclosure.

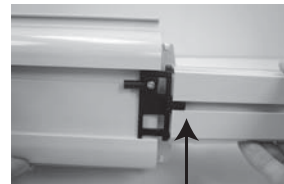


3. Pull out the camera module.



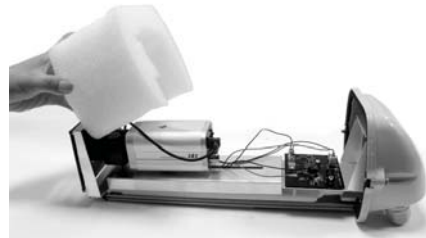
Camera Module

4. Slightly lift the camera module and slide it out completely.



Completely slide the camera module out

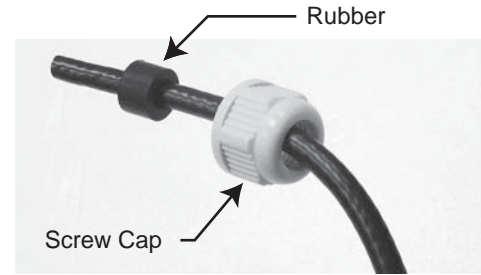
5. Remove the foam.



6. Loosen the screw cap on the right.



7. Insert the video cable through the screw cap and the inside rubber of the cap.



8. Attach the video cable to the BNC connector and plug it into the "VIDEO OUT" jack.



9. Adjust the length of the video cable and seal it with the waterproof tape.



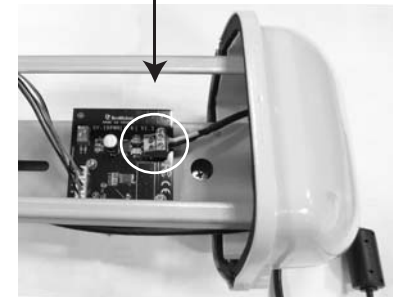
10. Tightly screw the cap.



11. Loosen the screw cap on the left, insert the power cable through the screw cap and the inside rubber.



12. Remove the terminal block. Plug black and white wires of the power cable to the terminal block. Reinsert the terminal block onto the camera. The white wire is required to connect to the positive pin (+) on the camera and the black wire to the negative pin (-).



13. Adjust the length of the cable, seal it with the waterproof tape, and then tightly screw the cap (see Steps 9 and 10 for the pictures).

# Adjusting Camera Settings

## Overview



No	Function
1	Auto Iris lens connector
2	Video out
3	Power Terminal (It is already connected. Follow Steps 11 to 12 in <i>Installing Camera Module</i> to insert the Power Cable.)
4	Moves down the OSD menu.
5	Moves the focus rightward to select menu options.
6	Power LED
7	Moves up the OSD menu.
8	Enters the OSD menu option and confirms the selection
9	Moves the focus leftward to select menu options.

## Shutter Speed

See the lists below for shutter speed settings.

Distance between the object and the camera is 550 cm (18.04 ft).
165 SEC
182 SEC
183 (*) SEC
184 SEC
185 SEC
225 SEC

Distance between the object and the camera is 1100 cm (36.08 ft).
145 SEC
150 SEC
155 SEC
170 SEC
180 SEC
200 SEC

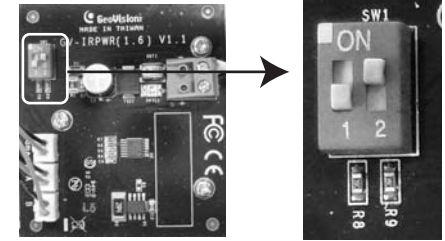
Notes:

- The default settings are marked with (\*).
- The gray areas in the charts are not recommended for use.

## LED Brightness Settings

The GV-LPR CAM models come with 7 LEDs which you can adjust the brightness. You can push up (ON) and down (OFF) the switches for LED brightness settings. See the table below for 4 setting values.

SW (1)	SW (2)	LED Brightness (mA)
ON	ON	470 (Default Setting)
ON	OFF	300
OFF	ON	200
OFF	OFF	100



## OSD Menu Options and Functions

Main Menu	Sub Menu	Function	Default Setting	
LENS	MANUAL	Manually adjust the camera lens.	✓	
	DC	Press <b>SET</b> to adjust the lens brightness.	-	
SHUTTER	FIXED	Includes these options: 1/60, 1/100, 1/250, 1/500, 1/2000, 1/5000, 1/10000, 1/100000.	1/500	
	MANUAL	Press <b>SET</b> to manually adjust the shutter speed.	-	
	AUTO	Not available when the LENS is set at DC.	Brightness: 70	
BLC (Backlight Compensation)	OFF	Turn off BLC function.	✓	
	ON	BLC AREA	Press <b>SET</b> to configure the areas.	-
	ON	BLC RATIO	Press <b>SET</b> to adjust the sensitivity values.	-
AGC (Automatic Gain Control)	OFF	Turn off AGC function.	✓	
	ON	Press <b>SET</b> to adjust the AGC ratio values.	-	
WHITE BAL. (White Balance)	ATW	Auto Tracking White Balance	✓	
	AWB	Automatic White Balance	-	
	FIXED	Press <b>SET</b> to select the mode from 1 to 4.	-	
	MANUAL	Press <b>SET</b> to adjust Red and Blue gain.	-	
ADJUST	CONTRAST	Adjust the Contrast from values 0 to 255.	87	
	SHARPNESS	Adjust the Sharpness from values 0 to 255.	10	
	CB_GAIN	Adjust CB_GAIN from values 0 to 255.	176	
	CR_GAIN	Adjust CR_GAIN from values 0 to 255.	176	
FUNCTION	CMAERA ID	Press <b>SET</b> to name the camera.	OFF	
	MIRROR	Select <b>ON</b> to reverse the image.	OFF	
	MOTION	Select <b>ON</b> and press <b>SET</b> to configure MOTION areas.	OFF	
	PRIVACY	Select <b>ON</b> and press <b>SET</b> to configure PRIVACY areas.	OFF	
	GAMMA	Adjust the gamma values to control brightness. Higher gamma value shows darker images.	1	
	LANGUAGE	Press <b>SET</b> to change the language setting of OSD menu options.	English	
RESET	-	Press <b>SET</b> to restore to the factory defaults.	-	
EXIT	-	Close the OSD menu.	-	

Note: The factory default GAMMA value is set to be 1. It will be adjusted to 0.45 every time when you select RESET. For optimal image performance, it is recommended to adjust the GAMMA value to 1.

## Installing Camera Enclosure

After the installation of camera module and settings adjustment, you are now ready to install the camera enclosure back.

1. Adjust the lens focus.



2. Lift the camera module.



3. Align the camera module to the camera enclosure and slide it back.



4. Secure the camera enclosure with the screws on both sides.



5. Push the sun shield back.



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