

GV-LPR CAM V2.0Installation Guide

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

Models

The GV-LPR CAM gives a 570TVL high-contrast license plate recognition video to the GV-LPR software that identifies license plates. The camera features 24 high-efficient LEDs for an illumination range of 30 meters. The camera also features a weather-sealed IP66-compliant housing with the heater and blower inside. This installation guide will take you through the functionality and use of the GV-LPR CAM.

List of Models

Model	IR Optimal Distance	Video Format	
GV-LPR CAM 20M EIA DC12V	20 m / 65.61 ft	NTSC	
GV-LPR CAM 20M CCIR DC12V	20 m / 65.61 ft	PAL	

Packing List

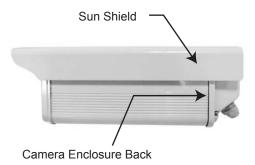
- AC Power Cable (110-125V, 10A) x 1
- Power Adapter (100-240V, 12V/5A) x 1
- Outdoor Mounting Bracket x 1

Specifications

Model	GV-LPR CAM 20M EIA DC12V	GV-LPR CAM 20M CCIR DC12V			
Sensor	1/3" B/W EXview CCD				
Heater	≤ 5°C (ON) , > 5°C (OFF) ; 20W				
Resolution	570 TVL				
Construction	Robust aluminum with weatherproof sun-shield				
Protection classification	IP 66				
Temperature	Operation: -30°C ~ 50°C / -22°F ~ 122°F				
	Storage: -30°C ~ 70)°C / -22°F ~ 158°F			
LED Quantity	24 high-efficient LEDs				
IR Distance	30 m / 98.43 ft				
	20 ± 5 m / 65.62 ± 16.4 ft (optimal)				
Illumination View Angle	30°				
Illuminator Life	25,000 hrs				
Power Supply	DC 12V				
Power Consumption	30W (normal), 50W (heater on)				

Installing Camera Module

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



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



3. Pull out the camera module.



Camera Module

 Slightly lift the camera module and slide it out completely.





Completely slide the camera module out

5. Loosen the screw cap on the left.



6. Insert the video cable through the screw cap.



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



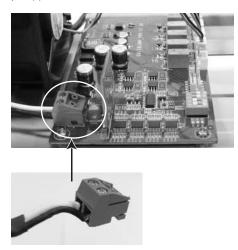
8. Adjust the length of the video cable and then tightly screw the cap.



9. Loosen the screw cap on the right, insert the power cable through the screw cap.



 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 (-).



11. Adjust the length of the cable and then tightly screw the cap (see Steps 8 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 Installing Camera Module 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		

camera is 1100 cm (36.08 ft).			
145 SEC			
150 SEC			
155 SEC			
170 SEC			
180 SEC			
200 SEC			

Distance between the object and the

Notes:

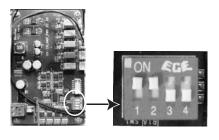
- 1. The default settings are marked with (*).
- 2. The gray areas in the charts are not recommended for use.

LED Brightness Settings

The GV-LPR CAM is designed with 24 high-efficient LEDs which you can adjust the brightness. You can push up (ON) and down (OFF) the switches of SW2, SW3 and SW4 for LED brightness settings. See the table below for 8 LED brightness setting values.

Note: The factory default setting of SW1 is ON. If you find the images of license plates captured in the day time or sufficient lights are unclear, check the SW1 and make sure it is switched to ON.

	SW2	SW3	SW4	LED Brightness (mA)
1	ON	ON	ON	470 (Default Setting)
2	ON	ON	OFF	400
3	ON	OFF	ON	350
4	ON	OFF	OFF	300
5	OFF	ON	ON	250
6	OFF	ON	OFF	200
7	OFF	OFF	ON	150
8	OFF	OFF	OFF	100



OSD Menu Options and Functions

Main Menu	Sub Menu		Function	Default Setting
LENS	MANUAL		Manually adjust the camera lens.	✓
	DC		Press SET to adjust the lens brightness.	-
SHUTTER FIXED		D	Includes these options: 1/60, 1/100, 1/250,	1/500
			1/500, 1/2000, 1/5000, 1/10000, 1/100000.	
	MANUAL		Press SET to manually adjust the shutter	-
			speed.	
	AUTO		Not available when the LENS is set at DC.	Brightness: 70
BLC	OFF		Turn off BLC function.	✓
(Backlight	ON BLC AREA		Press SET to configure the areas.	-
Compensation)		BLC RATIO	Press SET to adjust the sensitivity values.	-
AGC (Automatic	OFF		Turn off AGC function.	✓
Gain Control)	ON		Press SET to adjust the AGC ratio values.	-
WHITE BAL.	ATW	1	Auto Tracking White Balance	✓
(White Balance)	AWB		Automatic White Balance	-
	FIXED		Press SET to select the mode from 1 to 4.	-
	MANUAL		Press SET to adjust Red and Blue gain.	-
ADJUST	CON	TRAST	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	CMA	ERA ID	Press SET to name the camera.	OFF
	MIRROR		Select ON to reverse the image.	OFF
	MOT	ION	Select ON and press SET to configure	OFF
			MOTION areas.	
	PRIV	/ACY	Select ON and press SET to configure	OFF
			PRIVACY areas.	
	GAN	IMA	Adjust the gamma values to control brightness.	1
			Higher gamma value shows darker images.	
	LANGUAGE		Press SET to change the language setting of	English
			OSD menu options.	
RESET	-		Press SET 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.

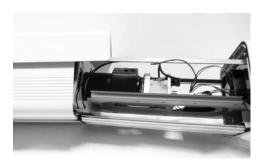
Installing Camera Enclosure

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.



Align the camera module to the camera 4. enclosure and slide it back.



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



5. Push the sun shield back.





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