



# GV-IRCAM V1.5 Installation Guide

**(10-Meter / 20-Meter Models)**

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

## Models

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

### List of Models

Model	Optimal Distance	Video Format
GV-IRCAM 10M EIA DC12V	10 m / 32.80 ft	NTSC
GV-IRCAM 20M EIA DC12V	20 m / 65.61 ft	
GV-IRCAM 10M CCIR DC12V	10 m / 32.80 ft	PAL
GV-IRCAM 20M CCIR DC12V	20 m / 65.61 ft	

### Packing List

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

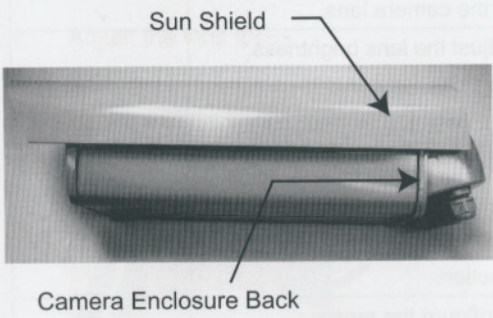
### Specifications

Model	GV-IRCAM 10M EIA DC 12V	GV-IRCAM 20M EIA DC 12V	GV-IRCAM 10M CCIR DC 12V	GV-IRCAM 20M CCIR DC 12V
Distance (optimal)	7~15 m / 22.96 ~ 49.21 ft	15 ~ 25 m / 49.21 ~ 82.02 ft	7 ~ 15 m / 22.96 ~ 49.21 ft	15 ~ 25 m / 22.96 ~ 49.21 ft
Sensor	1/3" B/W EXview CCD			
Resolution	570 TVL			
Lens Focal Length	5 ~ 50 mm, 10X	10 ~ 120 mm, 12X	5 ~ 50 mm, 10X	10 ~ 120 mm, 12X
Construction	Robust aluminum with weatherproof sun-shield			
Protection classification	IP 66			
Environmental	Operation: -10°C ~ 55°C / 14°F ~ 131°F    Storage: -20°C ~ 70°C / -4°F ~ 158°F			
Power Supply	DC 12V			
Power Consumption	15W	20W	15W	20W
LED Quantity	12 high-efficiency reflex LED	24 high-efficiency reflex LED	12 high-efficiency reflex LED	24 high-efficiency reflex LED
Illumination Range	20M (object of view reflecting IR light)	30M (object of view reflecting IR light)	20M (object of view reflecting IR light)	30M (object of view reflecting IR light)
Illumination View Angle	30°			
Illuminator Life	25,000 hrs			

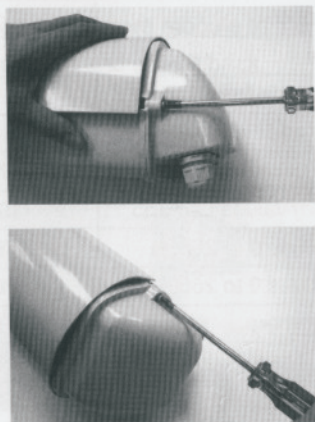


# Installing Camera Module

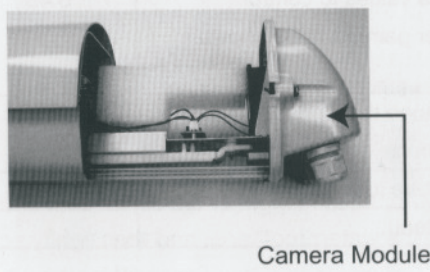
1. Push the sun shield forward to align with the back of camera enclosure.



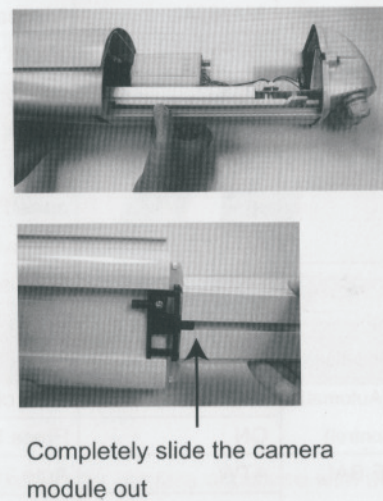
2. Loosen the set screws on the back of the camera enclosure.



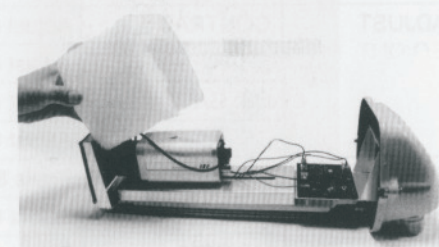
3. Pull out the camera module.



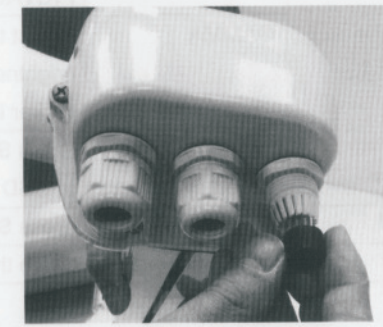
4. Slightly lift the camera module and slide it out completely.



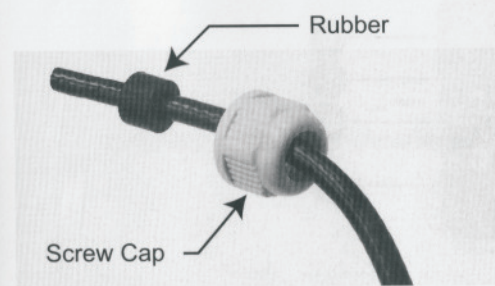
5. Remove the foam.



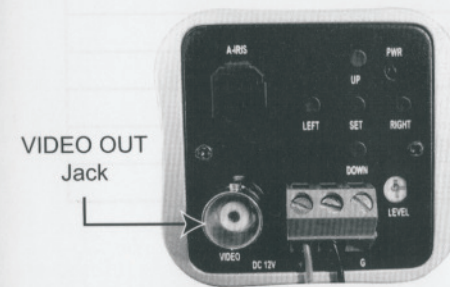
6. Loosen the screw cap on the right.



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.



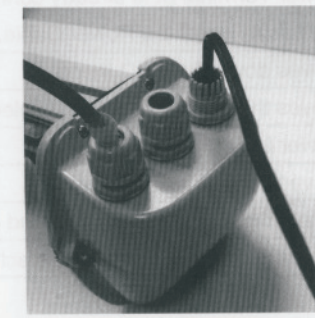
9. Adjust the length of the video cable and seal it with the waterproof tape.



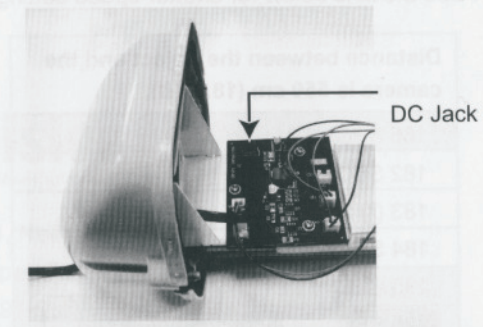
10. Tightly screw the cap.



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



12. Plug the power cable into the DC jack.

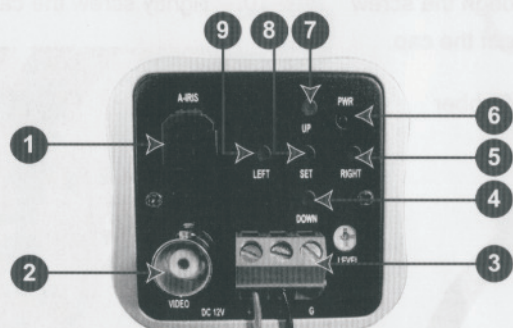


13. Adjust the length of the cable, seal it with the waterproof tape, and then tightly screw the cap (see Steps 9 and 10 for the pictures).



# 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:

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

## 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.	-
	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.
		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.	Gain: 192
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.	0.45
	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.	-



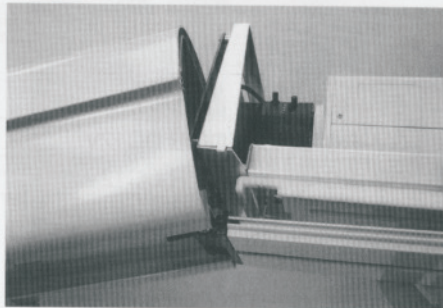
# Installing Camera Enclosure

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

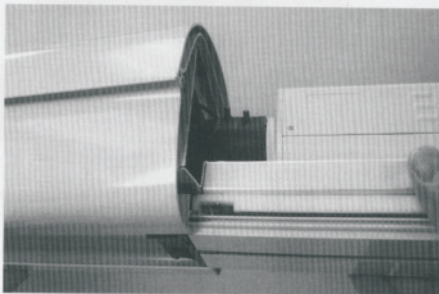
1. Adjust the lens focus.



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.



**GeoVision**  
The Vision of Security

9F, No. 246, Sec. 1, Neihu Rd.,

Neihu District, Taipei, Taiwan

Tel: +886-2-8797-8377

Fax: +886-2-8797-8335

[sales@geovision.com.tw](mailto:sales@geovision.com.tw)

<http://www.geovision.com.tw>