GeoVision inc
The Vision of Security

GV-IR LED

User's Manual

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

Every effort has been made to ensure that the information in this manual is accurate. GeoVision is not responsible for printing or clerical errors.

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Preface

Welcome to the ***GV-IR LED*** *User's Manual*.

The **GV-IR LED** is an indoor-use infrared illuminator, which is designed to work with the **GV-IPCAM** for a better night vision. The **GV-IR LED** can only be compatible with the **GV-IPCAM** supporting wet-contact input devices. The tables below list the compatible and incompatible models of **GV-IPCAM**.

Compatible GV-IPCAM models (with wet-contact support)

Model No.	Description
GV-BX110D	GV-IPCAM, 1.3 M, H.264, D/N
GV-BX010D	GV-IPCAM, VGA, H.264, D/N

Incompatible GV-IPCAM models (with dry-contact support)

Model No.	Description
81-13MBC-C01	GV-IPCAM, 1.3M, Box
81-13MBC-D01	GV-IPCAM, 1.3M, Box
81-13MVC-C01	GV-IPCAM, 1.3M, Varifocal
81-13MVC-D01	GV-IPCAM, 1.3M, Varifocal
81-13MVD-C01	GV-IPCAM, 1.3M, Vandal Proof Dome
81-13MVD-D01	GV-IPCAM, 1.3M, Vandal Proof Dome

1. Introduction

The **GV-IR LED** is designed to automatically detect the illumination of the environment and determine it to be day mode or night mode. It is also designed to work perfectly with the **GV-IPCAM** to improve the image performance in low-light or night situations.

Featured with the D/N auto detection function, the **GV-IR LED** is able to control the **IR Cut Filter** built in the **GV-IPCAM** through input trigger signals. In night mode of 10 lux or lesser illuminance, the infrared light of **GV-IR LED** will turn on and the camera images will be switched to monochrome to produce better images. In day mode of 20 lux or higher illuminance, the infrared light of **GV-IR LED** will turn off and the camera images will be switched to color. Following is the comparison of the **GV-IPCAM** working with and without the **GV-IR LED** in 10 lux illuminance.

With GV-IR LED

Without GV-IR LED

1.1 Features

- Indoor infrared illumination
- 850 nm LEDs
- 12 IR LEDs for 10-meter illumination distance
- D/N mode auto detection
- 12V DC power supplied from GV-IPCAM. No separate power adapter is required.

1.2 Packing List

The GV-IR LED package includes the following items:

- GV-IR LED x 1 (with a power cable and unshielded wires)

- Bracket x 1

- Hexagon Head Phillips Screw x 1

- Round Head Phillips Screw x 2

2. Connecting GV-IR LED to GV-IPCAM

To connect the GV-IR LED to a GV-IPCAM, follow the steps below:

1. Fasten the bracket to the GV-IPCAM with the hexagon head phillips screw.

Figure 1

2. Fasten the GV-IR LED to the bracket with the round head phillips screws.

Figure 2

3. Connect the red unshielded wire to pin 1 (input +) and the black unshielded wire to pin 2 (input -) on the I/O terminal block of the GV-IPCAM.

Figure 3

4. Connect one end of the power cable to the 12V power port on the GV-IPCAM and the other end to the power adapter of the GV-IPCAM.

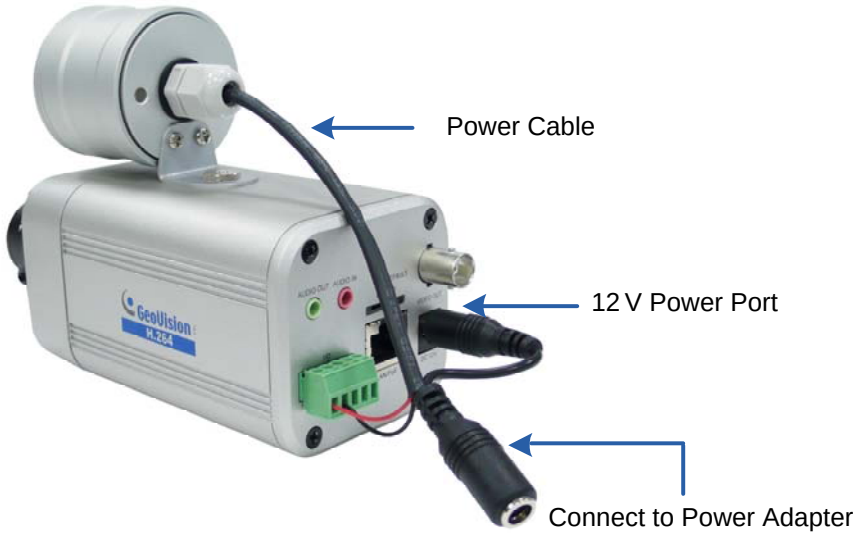

Figure 4

3. Installing GV-IR LED

After connecting the GV-IR LED to the GV-IPCAM, you need to access the Web interface of the GV-IPCAM to install the GV-IR LED. Follow the steps below:

1. Access the Web interface of the GV-IPCAM.

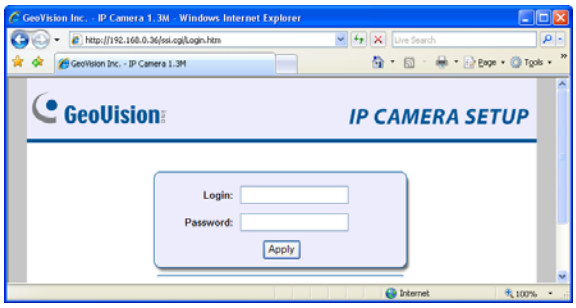

Figure 5

2. Select **Video and Motion**, select **Video Settings**, select **Streaming 1** and set **IR Check Function** to be **Trigger by Input**.

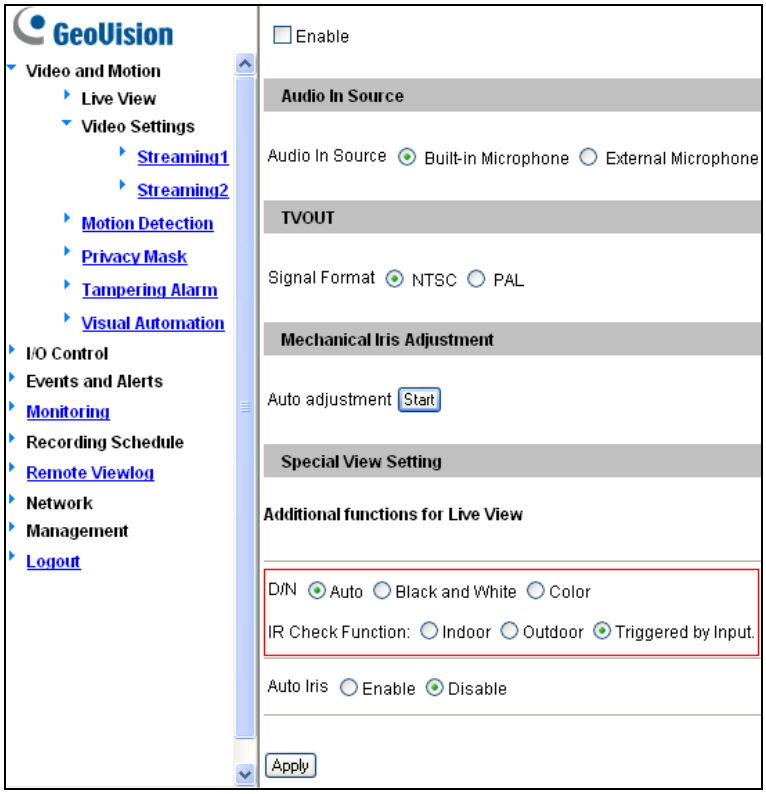

Figure 6

3. Click **Apply**.

4. Specifications

Power	12V DC, 250 mA
IR Wavelength	850 nm
Environment	Indoor use only
Illumination View Angle	35°
Illumination Range	10 m / 32.81 ft
Illumination Life	10,000 hrs
On-Off Conditions	10 lux (On), 20 lux (Off)
Trigger Type	Wet Contact, 0 ~ 5.1V
Operating Temperature	0°C ~ 50°C
Weight	140 g / 0.31 lbs
Dimensions (H x W x D)	49 x 47 x 67 (mm) / 1.93 x 1.85 x 2.64 (in)