GeoVision inc
The Vision of Security

GV-IR LED T2

User's Manual

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

IRLEDT2-B

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GeoVision, Inc.
9F, No. 246, Sec. 1, Neihu Rd.,
Neihu District, Taipei, Taiwan
Tel: +886-2-8797-8377
Fax: +886-2-8797-8335
http://www.geovision.com.tw

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February 2014

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Preface

Welcome to the ***GV-IR LED T2*** *User's Manual*.

The **GV-IR LED T2** is an indoor-use infrared illuminator, which is designed to work with the **GV-IPCAM** for a better night vision. The table below lists the compatible models of **GV-IPCAM**.

Compatible GV-IPCAM models

Model No.	Description
GV-BX1300 Series	1.3 MP H.264 WDR D/N Box IP Camera
GV-BX1500 Series	1.3 MP H.264 Super Low Lux WDR D/N Box IP Camera
GV-BX2400 Series	2 MP H.264 WDR Pro D/N Box IP Camera
GV-BX2500 Series	2 MP H.264 Super Low Lux WDR Pro D/N Box IP Camera
GV-BX3400 Series	3 MP H.264 WDR Pro D/N Box IP Camera
GV-BX5300 Series	5 MP H.264 WDR D/N Box IP Camera
GV-BX120D	1.3 MP, H.264, Low Lux WDR D/N Box IP Camera
GV-BX130D Series	1.3 MP, H.264, WDR D/N Box IP Camera
GV-BX140DW	1 MP, H.264, WDR Pro D/N Box IP Camera
GV-BX220D Series	2 MP, H.264, WDR D/N Box IP Camera
GV-BX320D Series	3 MP, H.264, WDR D/N Box IP Camera
GV-BX520D	5 MP, H.264, WDR D/N Box IP Camera

1. Introduction

The **GV-IR LED T2** is designed to work perfectly with the **GV-IPCAM** to improve the image performance in low-light or night situations. When the GV-IPCAM detects the illumination of the environment, it would determine it to be Day mode or Night mode. If you set the **GV-IR LED T2** to be triggered by D/N mode, the infrared light of **GV-IR LED T2** will be turned on and the camera images will be switched to monochrome to produce better images in the Night mode. In the Day mode, the infrared light of **GV-IR LED T2** will be turned off and the camera images will be switched to color. For the On-Off conditions of each compatible GV-IPCAM, see *4. Specifications*.

.Following is the comparison of the **GV-IPCAM** working with and without the **GV-IR LED T2** in 10 lux illuminance.

With GV-IR LED T2

Without GV-IR LED T2

1.1 Features

- Indoor infrared illumination
- 850 nm LEDs
- 12 IR LEDs for 10-meter illumination distance
- 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

- Camera Holder x 1

- Hexagon Head Phillips Screw x 1

- Round Head Phillips Screw x 2

- Round Head Phillips Screw with the Washer x 2

2. Connecting GV-IR LED T2 to GV-IPCAM

To connect the GV-IR LED T2 to a GV-IPCAM, follow the steps below:

1. Fasten the camera holder to the GV-IR LED T2 with the Round Head Phillips Screws with the washers.

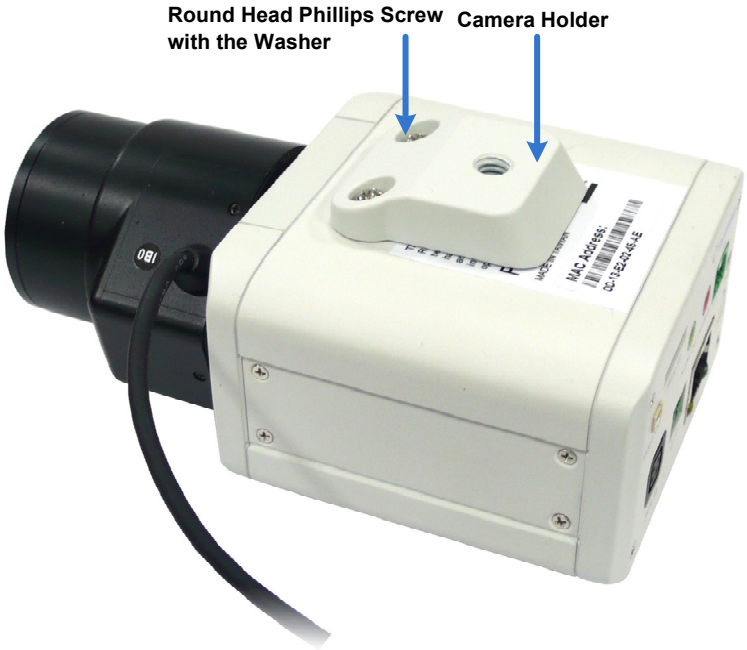

Figure 1

2. Fasten the bracket onto the camera holder with the Hexagon Head Phillips Screw.

Figure 2

3. Fasten the GV-IR LED T2 to the bracket with Round Head Phillips Screws.

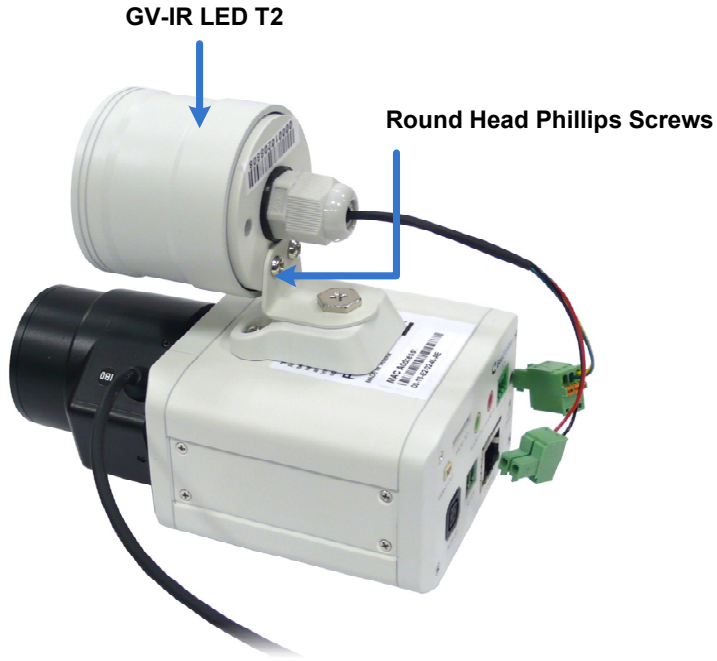

Figure 3

4. Unscrew the power cables of the GV-IPCAM from the supplied 2-pin Terminal Block. Twist the red wire from the GV-IR LED T2 to the power cable (DC 12 V), which has the gray stripes on it, and twist the black wire from the GV-IR LED T2 to the power cable (ground), which has the characters on it.

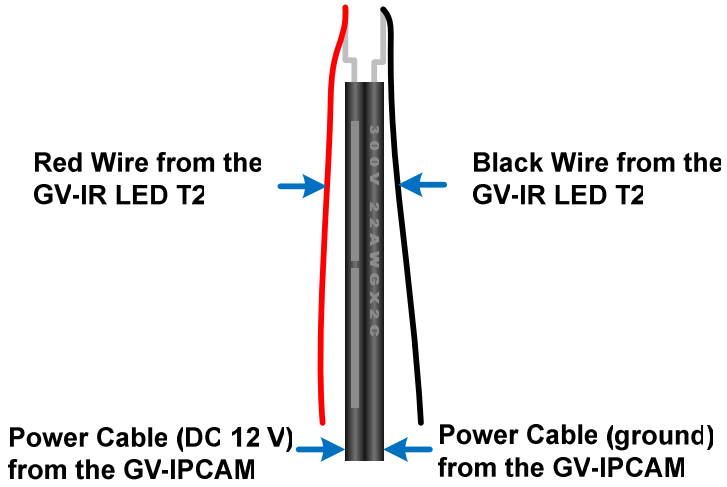

Figure 4

Note: Ensure to twist the power cables with the wires of the GV-IR LED in the correct way, or it may cause the GV-IR LED to burn out.

5. Connect the red wire twisted with the power cable (DC 12 V) to the right-side pin of the Terminal Block, and connect the black wire twisted with the power cable (ground) to the left-side pin of the Terminal Block. Connect the Terminal Block to the DV 12 V Port of the GV-IPCAM.

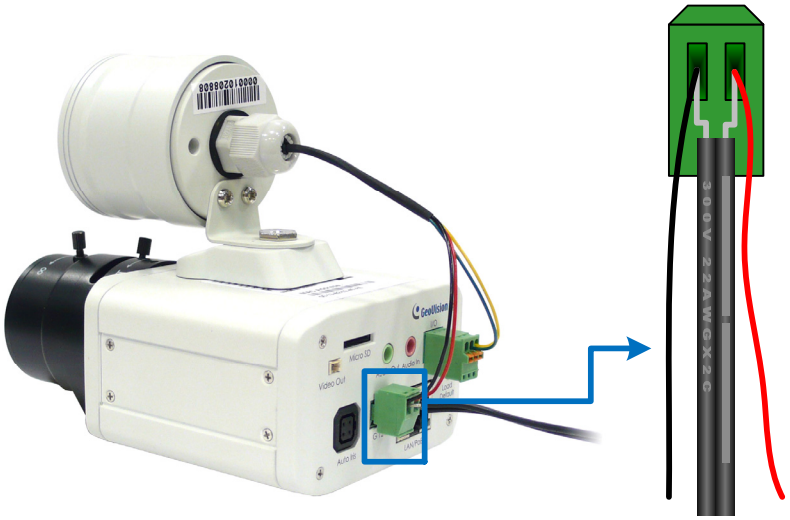

Figure 5

6. Connect the green wire to **Pin 2** and the yellow wire to **Pin 3** on I/O Terminal Block connector.

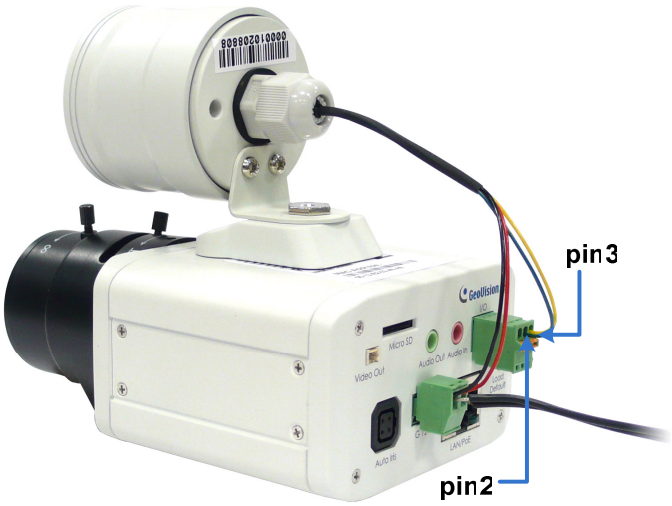

Figure 6

Note: Ensure not to connect the yellow wire to pin 1 on the I/O terminal block, or the GV-IR LED T2 will be always turned on.

3. Installing GV-IR LED T2

After connecting the GV-IR LED T2 to the GV-IPCAM, you need to access the Web interface of the GV-IPCAM to install the GV-IR LED T2. Follow the steps below:

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

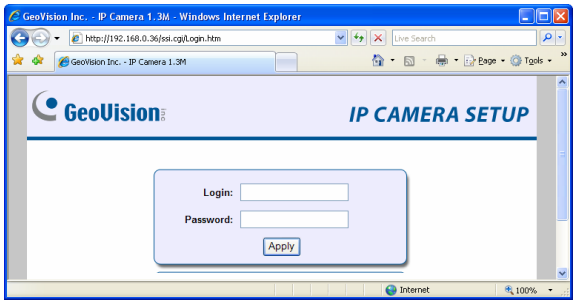

Figure 5

2. Select **Video and Motion**, select **Video Settings**, select **Streaming 1**, set **IR Check Function** from the following options, and then click **Apply**.

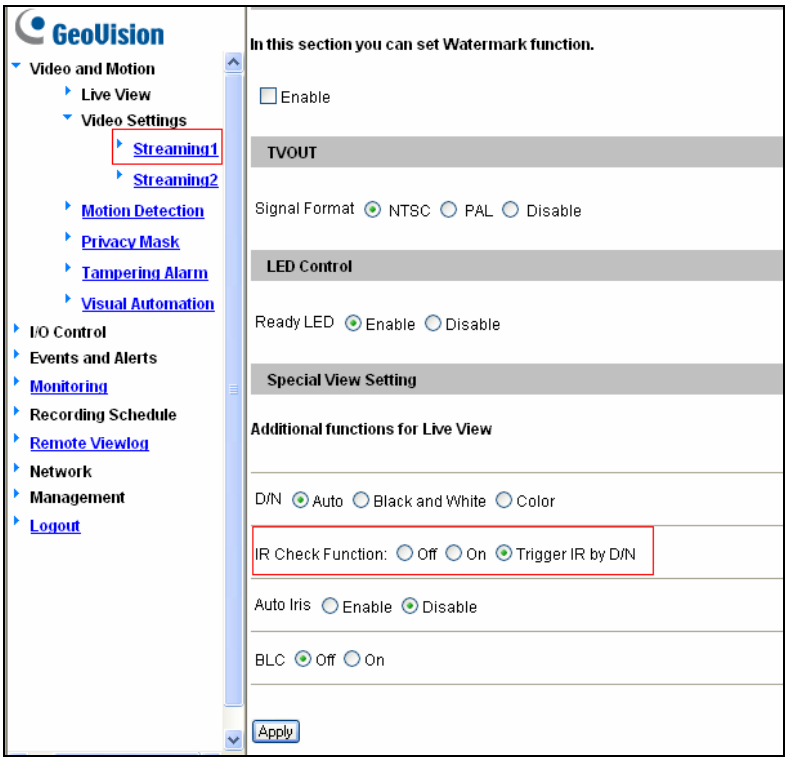

Figure 6

- **Off:** Select this option to leave the GV-IR LED T2 in the ON status continuously.
- **On:** Select this option to leave the GV-IR LED T2 in the OFF status continuously.
- **Trigger IR by D/N:** Select this option to trigger the GV-IR LED T2 to turn on in the Night mode and turn off in the Day mode.

4. Specifications

Power	12V DC, 250 mA
IR Wavelength	850 nm
Environment	Indoor use only
IR LED Quantity	12 IR LEDs
Illumination View Angle	35°
Illumination Range	10 m / 32.81 ft
Illumination Life	10,000 hrs
Trigger Type	Dry Contact
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)