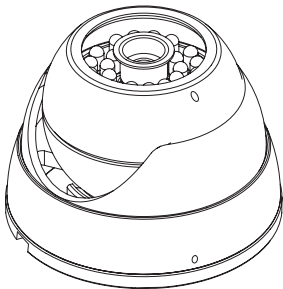


GE  
Security

# TruVision IR Dome Camera Pocket Guide



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#### FCC compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### EU directives

**2004/108/EC (EMC directive).** Non-European manufacturers must designate an authorized representative in the Community. Our authorized manufacturing representative is GE Security B.V., Kelvinstraat 7, 6003 DH Weert, Nederland.



**2002/96/EC (WEEE directive).** Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information, visit [www.recyclethis.info](http://www.recyclethis.info).

#### Regulatory





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# Introduction

This is the GE *TruVision IR Color Dome Camera Pocket Guide* for models TVD-TIR-SR, TVD-TIR-MR, and TVD-TIR(B)-HR. This pocket guide describes a standard installation.

## Overview

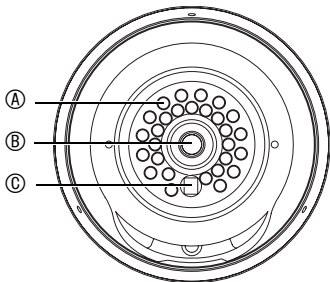
The TruVision IR Color Dome Camera consist of the following:

- Camera with power and video output cable
- Camera shroud
- Flying lead
- Mounting bracket
- Mounting hardware
- Allen wrench
- Gang box adapter plate (for TVD-TIR-MR and TVD-TIR(B)-HR models only)

Refer to figure ❶ and ❷ when performing the camera setup procedures.

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❶



Ⓐ LED IR lights

Ⓒ Light sensor

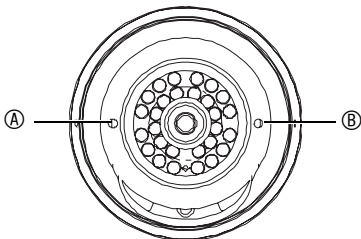
Ⓑ Lens



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2



Ⓐ Zoom

Ⓑ Focus

**Note:** Zoom and focus only available on the TVD-TIR-MR and TVD-TIR(B)-HR models.

## Installation

To install the TruVision IR Color Dome Camera, do the following.

1. Using the mounting bracket as a template, place it level against the mounting surface and mark the position of the mounting holes.
2. Following all local codes, drill and prepare the mounting holes.
3. Route the camera's cable through one of the four openings in the mounting bracket, and then install the mounting bracket with the four provided screws. If your mounting surface requires it, use the provided wall anchors or other appropriate fasteners.

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4. While holding the camera in place, set the camera shroud over the camera.

**Note:** If you are installing on the gang box or routing the wires through the wall, connect a 75 ohm coaxial video cable to the camera's video cable, and connect a 12 VDC power supply to the power cable.

5. Using the provided Allen wrench, *lightly* tighten the three screws on the shroud. When lightly tightened, the shroud holds the camera in place and you can adjust the camera position.
6. Connect a 75 ohm coaxial video cable to the camera's video cable, and connect a 12 VDC power supply to the power cable.

7. Check the picture and adjust the camera position and angle as required.

**Note:** When installing a TVD-TIR-MR or TVD-TIR(B)-HR camera, tilting the camera housing past 80° may result in reflection of IR illumination from the camera base into the lens. This can distort or obscure the picture in night mode.

8. Tighten the shroud screws to secure it to the mounting bracket. Ensure that the camera shroud is firmly attached to the bracket.
9. If necessary, use a flat blade screwdriver to adjust the zoom first, and then adjust the focus (②).

## Specifications

### TVD-TIR-SR specifications

|                      |   |
|----------------------|---|
| Image sensor         | 1/3 in. color CCD sensor  |
| Resolution           | 380TVL  |
| Total pixels         | NTSC: 537(H) x 505(V)<br>PAL: 537(H) x 597(V)                   |
| Effective pixels     | NTSC: 510(H) x 492(V)<br>PAL: 500(H) x 582(V)                   |
| Synchronizing system | 2:1 internal  |
| Scanning system      | NTSC: 525 lines, 30 fields<br>PAL: 625 lines, 50 fields         |
| Video output         | 1.0 Vp-p / 75 ohm composite                                     |
| Electronic shutter   | NTSC: 1/60 to 1/100,000 second<br>PAL: 1/50 to 1/100,000 second |
| Lens                 | 4.3 mm  |
| S/N ratio            | More than 52 dB (AGC off)                                       |
| Minimum illumination | 0.4 lux color / F2.0<br>0.00 lux IR on                          |
| Weatherproof         | IP67  |
| IR distance          | 33 ft. (10 m) (14 IR LEDs)                                      |
| IR trigger           | 2.6 lux/2.7 lux (IR on/off)                                     |
| Power supply         | 12 VDC  |

|                       |                                 |
|-----------------------|---------------------------------|
| Current               | 120 mA (IR OFF)<br>270 mA (MAX) |
| Power consumption     | 5.9 W maximum                   |
| Weight                | 0.86 lb. (0.39 kg)              |
| Dimension (H x diam.) | 2.7 x 3.7 in. (69 x 94 mm)      |
| Operating temp.       | 14 to 122°F (-10 to 50°C)       |
| Storage temp.         | -4 to 158°F (-20 to 70°C)       |

## TVD-TIR-MR and TVD-TIR(B)-HR specifications

|                      |   |
|----------------------|---|
| Image sensor         | 1/3 in. color CCD sensor<br>1/3 in. color CCD sensor    |
| Resolution           | TVD-TIR-MR: 480TVL<br>TVD-TIR(B)-HR: 530TVL             |
| Total pixels         | NTSC: 811(H) x 508(V)<br>PAL: 795(H) x 596(V)           |
| Effective pixels     | NTSC: 768(H) x 494(V)<br>PAL: 752(H) x 582(V)           |
| Synchronizing system | 2:1 internal  |
| Scanning system      | NTSC: 525 lines, 30 fields<br>PAL: 625 lines, 50 fields |
| Video output         | 1.0 Vp-p / 75 ohm composite                             |

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|                      |   |
|----------------------|---|
| Electronic shutter   | NTSC: 1/60 to 1/100,000 second<br>PAL: 1/50 to 1/100,000 second   |
| Variable focal lens  | 3.5 to 8 mm   |
| S/N ratio            | More than 49 dB (AGC off)   |
| Minimum illumination | TVD-TIR-MR:<br>0.3 lux color / F2.0<br>0.00 lux IR on<br><br>TVD-TIR(B)-HR:<br>0.5 lux color / F2.0<br>0.00 lux IR on |
| Weatherproof         | IP66  |
| IR distance          | 66 ft. (20 m) (28 IR LEDs)  |
| IR trigger           | 3.1 lux / 3.7 lux (IR on/off)   |
| Power supply         | 12 VDC  |
| Current              | TVD-TIR-MR:<br>140 mA (IR off)<br>400 mA (MAX)<br><br>TVD-TIR(B)-HR:<br>170 mA (IR off)<br>430 mA (MAX)               |
| Power consumption    | TVD-TIR-MR: 5.9 W maximum<br>TVD-TIR(B)-HR: 6.2 W maximum   |

|                       |                                |
|-----------------------|--------------------------------|
| Weight                | 1.7 lb. (0.76 kg)              |
| Dimension (H x diam.) | 3.25 x 4.7 in. (82.5 x 119 mm) |
| Operating temp.       | 14 to 122°F (-10 to 50°C)      |
| Storage temp.         | -4 to 158°F (-20 to 70°C)      |



## Contacting us

For help installing, operating, maintaining, and troubleshooting this product, refer to this document and any other documentation provided. If you still have questions, see [Contact information](#) on page 14.

**Note:** Be ready at the equipment before calling.

## Online resources

Here are some useful links on our website [www.gesecurity.com](http://www.gesecurity.com):

**Online library.** From the *Customer Support* menu, select the [Resource Library](#) link. After you register and log on, you may search for the documentation you need.<sup>1</sup> (For translated manuals, contact your local supplier.)

**Training.** To view any available online training for GE Security products, select the [Training](#) link. (Online training is not available for all products.)

**Warranty and terms.** From the *Customer Support* menu, select [Return and Warranty Policy Statement](#) or [Terms and Conditions Policy Statement](#).

**Customer service and technical support.** From the *Customer Support* menu, select [Customer Service](#) or [Technical & Application](#). Select a product category for the contact information or use the menu to select a location outside the US.

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1. Many GE documents are provided in English only as PDFs. To read these documents, you will need Adobe Reader, which you can download free from Adobe's website at [www.adobe.com](http://www.adobe.com).

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# Contact information

## North America

T: 888 GE Security. Toll-free in US, Puerto Rico, Canada.  
503.885.5700 outside the toll-free area.

F: 888.329.0332 (Tualatin tech support)  
561.998.6232 (Boca Raton tech support)

E: [nstechsrv@ge.com](mailto:nstechsrv@ge.com)  
[gesecurity.customerservice@ge.com](mailto:gesecurity.customerservice@ge.com)

## Latin America

T: 305.593.4301 F: 305.593.4300

E: [InfraSec.TechnicalServicesLatinAmerica@ge.com](mailto:InfraSec.TechnicalServicesLatinAmerica@ge.com)  
[InfraSecCustomerService.LatinAmerica@ge.com](mailto:InfraSecCustomerService.LatinAmerica@ge.com)

## Europe, Middle East, and Africa

W: At [www.gesecurity.eu](http://www.gesecurity.eu), select *Customer Support*.

## China, India, Singapore, Taiwan, Southeast Asia

E: [ges.asiatechservice@ge.com](mailto:ges.asiatechservice@ge.com)

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