



TruVision HD-TVI Dome Camera Installation Guide

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Product overview

This is the installation guide for TruVision HD-TVI camera models:

HD-TVI fixed lens dome camera:

- TVD-6102 (2MPx Dome, 2.8 mm lens)

HD-TVI VF motorized lens dome camera:

- TVD-6101 (720P Dome, 2.7 to 13.5 mm lens)
- TVD-6103 (2MPx Dome, 2.7 to 13.5 mm lens)
- TVD-6104 (5MPx Dome, 2.7 to 13.5 mm lens)
- TVD-6105 (8MPx Dome, 2.7 to 13.5 mm lens)

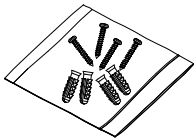
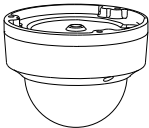
Go to “Contact information and manuals” on page 21 for information on where to download the configuration manual for these cameras.

Package contents

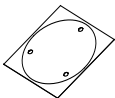
Check the package and contents for visible damage. If any components are damaged or missing, do not attempt to use the unit; contact the supplier immediately. If the unit is returned, it must be shipped back in its original packaging.

HD-TVI VF fixed lens dome camera (TVD-6102)

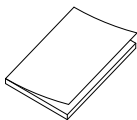
- Camera with power and video output cable harness (cables not shown)
- 4 screws and 4 anchors



- Template



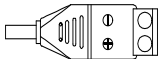
- Installation guide



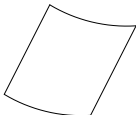
- Torx wrench



- 12 VDC connector: Two terminal connector with positive and negative indicators

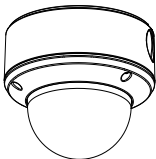


- Equipment disposal sheet

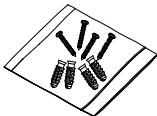


HD-TVI VF motorized lens dome camera (TVD-6101, TVD-6103, TVD-6104, TVD-6105)

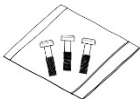
- Camera with power and video output cable harness



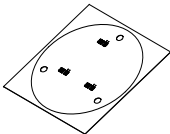
- 4 screws and 4 anchors



- 3 screws to connect the camera to the back box



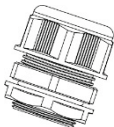
- Template



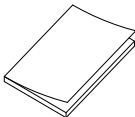
- Torx wrench



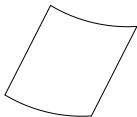
- G3/4 cable adapter



- Installation guide

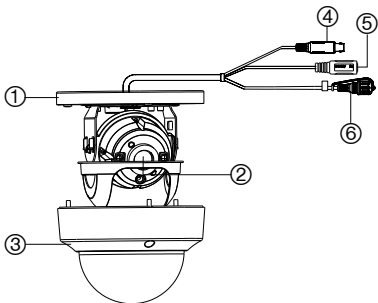


- Equipment disposal sheet



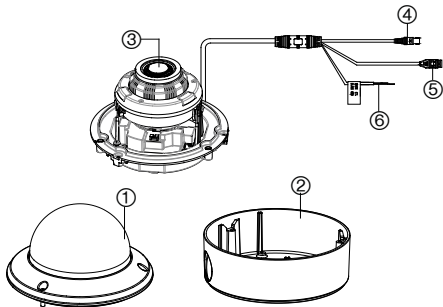
Camera description

Figure 1: HD-TVI fixed lens dome camera (TVD-6102)



- | | |
|--------------------|----------------------------------|
| 1. Base | 4. TVI output |
| 2. Lens assembly | 5. 12 VDC power |
| 3. Bubble assembly | 6. TVI/960H analog switch button |

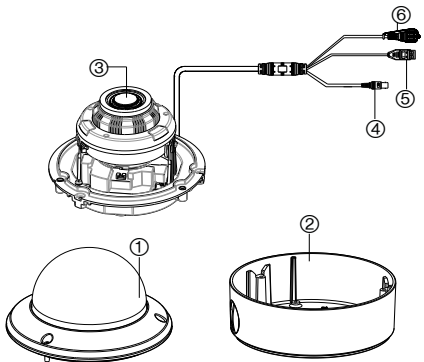
Figure 2: HD-TVI VF motorized lens dome camera (TVD-6101)



1. Bubble assembly
2. Base
3. Lens assembly

4. TVI output
5. 12 VDC/24 VAC power
6. TVI/960H analog
(connect wires to switch to 960H analog)

HD-TVI VF motorized lens dome camera (TVD-6103, TVD-6104, TVD-6105)



1. Bubble assembly
2. Base
3. Lens assembly

4. TVI output
5. 12 VDC/24 VAC power
6. TVI/960H analog switch button

Installation

This section provides information on how to install the cameras.

Installation environment

When installing your product, consider these factors:

- **Electrical:** Install electrical wiring carefully. It should be done by qualified service personnel. Always use a proper 12 VDC UL listed Class 2 CE certified power supply or a proper 24 VAC power supply, depending on the camera. Do not overload the power cord or adapter.
- **Ventilation:** Ensure that the location planned for the installation of the camera is well ventilated.
- **Temperature:** Do not operate the camera beyond the specified temperature, humidity or power source ratings. The operating

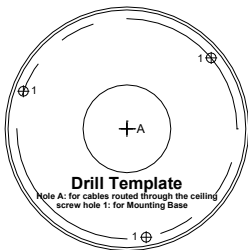
temperature of the camera is between -40 to + 60°C (-40 to 140°F). Humidity is below 90%.

- **Moisture:** Do not expose the camera to rain or moisture, or try to operate it in wet areas. Turn the power off immediately if the camera is wet and ask a qualified service person for servicing. Moisture can damage the camera and also create the danger of electric shock.
- **Servicing:** Do not attempt to service this camera yourself. Any attempt to dismantle this product will invalidate the warranty and may also result in serious injury. Refer all servicing to qualified service personnel.
- **Cleaning:** Do not touch the sensor modules with fingers. If cleaning is necessary, use a clean cloth with some ethanol and wipe the camera gently. If the camera will not be used for an extended period of time, put on the lens cap to protect the sensors from dirt.

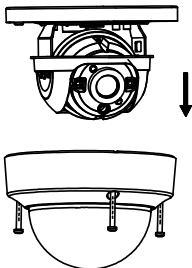
Mounting the HD-TVI fixed lens dome camera (TVD-6102)

To surface mount a camera

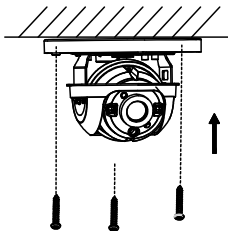
1. Using the template, place it level against the mounting surface and mark the position of the mounting holes.



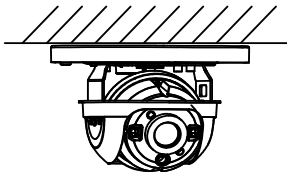
2. Following all local codes, drill and prepare the mounting holes.
3. Loosen the screws with Torx wrench to remove the housing.



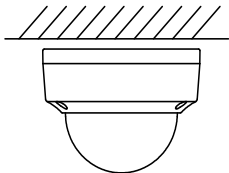
4. Securely fasten the mounting base to the mounting surface with the screws.



- Using a 75-ohm coaxial video cable, connect the camera TVI video output to a TVI DVR, and connect a 12 VDC power supply to the power cable.
- Adjust the surveillance angle according to the figure below.



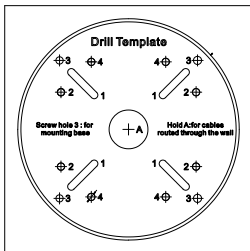
- Re-attach the housing to the base.



Mounting the HD-TVI VF motorized lens dome camera (TVD-6101, TVD-6103, TVD-6104, TVD-6105)

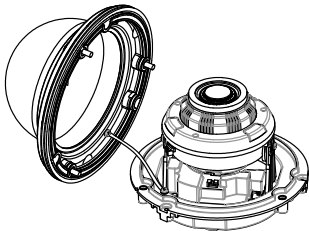
To surface mount a camera

1. Place the provided template level against the mounting surface and mark the position of the mounting holes.

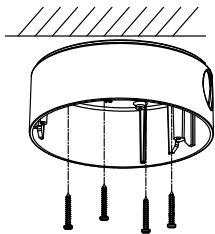


2. Following all local safety regulations, drill and prepare the mounting holes.
3. Remove the camera from its back box.

4. Loosen the three screws on the edge of the bubble assembly with the supplied Torx wrench.
5. Remove the bubble assembly.

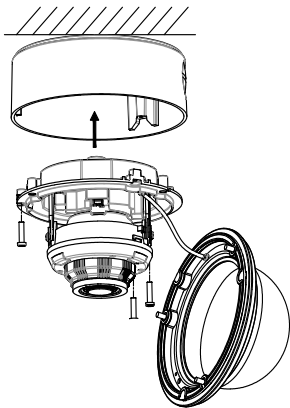


6. Secure the back box to the ceiling with the supplied screws.



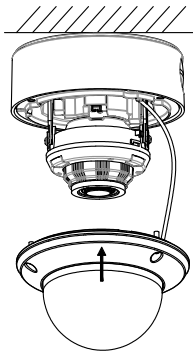
Note: Please remove the rubber knockout for cable routing outside of the camera, when required.

7. Using a 75-ohm coaxial video cable, connect the camera TVI video output to a TVI DVR, and connect a 12 VDC or 24 VAC.
8. Align the camera with the back box and tighten the screws to secure the camera to the back box.



9. Adjust the surveillance angle:
- View the camera image on a monitor.
 - Rotate the panning table to adjust the pan direction [0 to 355°].
 - Loosen the tilting lock screw.

- d) Rotate the tilting table to adjust the tilt direction [0 to 90°].
 - e) Tighten the tilting lock screw.
 - f) Rotate the camera lens holder [0 to 355°] to adjust the lens to the surveillance angle.
10. Install the bubble assembly back on the camera.



Specifications

Power supply: 12 VDC / 24 VAC

Current power consumption:

TVD-6101: 12 VDC: Max. 579 mA /
24 VAC: Max. 324 mA, Max. 7 W

TVD-6102: 12VDC: Max.282 mA, Max.
3.4 W

TVD-6103: 12 VDC: Max. 625 mA /
24 VAC: Max. 480 mA, Max. 7.5 W

TVD-6104: 12 VDC: Max. 667 mA /
24 VAC: Max. 340 mA, Max. 8 W

TVD-6105: 12 VDC: Max. 685 mA /
24 VAC: Max. 530 mA, Max. 8.2 W

Weight (net):

**TVD-6101/TVD-6103/TVD-6105/ TVD-
6105:** 640 g / 1.41 lb.

TVD-6102: 492 g / 1.08 lb.

Dimensions:

TVD-6101/TVD-6103/TVD-6104/ TVD-6105: 124.1 ×145.2 mm / 4.9 ×7.1 in.

TVD-6102: 82.4× 111 mm / 3.2 × 4.4 in.

Contact information and manuals

For contact information and to download the latest manuals, go to the web site of your region:

EMEA: <https://firesecurityproducts.com>

Manuals are available in several languages.

Australia/
New
Zealand: <https://firesecurityproducts.com.au/>

Legal and regulatory information

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Manufacturer:

PLACED ON THE MARKET BY:

Carrier Fire & Security Americas Corporation Inc.

13995 Pasteur Blvd, Palm Beach Gardens, FL 33418, USA

AUTHORIZED EU REPRESENTATIVE:

Carrier Fire & Security B.V.

Kelvinstraat 7, 6003 DH Weert, Netherlands

Certification:



FCC compliance: Class A

Class A: This equipment has been tested and found to comply with the limits for a Class A 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 commercial 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC conditions:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This Device must accept any interference received, including interference that may cause undesired operation.

ACMA compliance:

Notice! This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Canada:

This Class A digital apparatus complies with CAN ICES-003 (A)/NMB-3 (A).

Cet appareil numérique de la classe A est conforme à la norme CAN ICES-003 (A)/NMB-3 (A).

European Union directives:

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (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 see: www.recyclethis.info.

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Contact information

EMEA: <https://firesecurityproducts.com>

Australian/New Zealand: <https://firesecurityproducts.com.au/>

Product documentation

Please consult the following web link to retrieve the electronic version of the product documentation. The manuals are available in several languages.



