



# TruVision HD-TVI Bullet Camera Installation Guide



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# Product overview

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

## **HD-TVI fixed lens bullet camera:**

- TVB-6102 (2MPx Bullet, 3.6 mm lens)
- TVB-6104 (5MPx Bullet, 3.6 mm lens)

## **HD-TVI VF motorized lens bullet camera:**

- TVB-6101 (720P Bullet, 2.7 to 13.5 mm lens)
- TVB-6103 (2MPx Bullet, 2.7 to 13.5 mm lens)
- TVB-6105 (5MPx Bullet, 2.7 to 13.5 mm lens)
- TVB-6106 (8MPx Bullet, 2.7 to 13.5 mm lens)

## **HD-TVI fixed lens low light bullet camera:**

- TVB-6107 (2MPx Bullet, 3.6 mm lens)

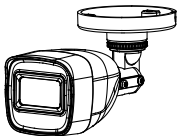
Go to “Contact information and manuals” on page 29 for information on where to download the configuration manual for these cameras.

## Package contents

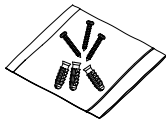
Check the package and contents for visible damage. If any components are damaged or missing, do not attempt to use the unit; contact the supplier immediately. If the unit is returned, it must be shipped back in its original packaging.

## HD-TVI fixed lens bullet camera (TVB-6102, TVB-6104)

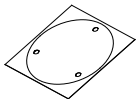
- Camera with power and video output cable harness (cables not shown)



- 3 screws and 3 anchors



- Mounting template



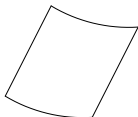
- Installation guide



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



- Equipment disposal sheet

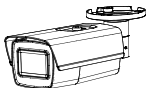


- Torx wrench



## HD-TVI VF motorized lens bullet camera (TVB-6101, TVB-6103, TVB-6105, TVB-6106)

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



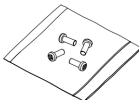
- 4 screws and 4 anchors for the camera



- 3 screws and 3 anchors. Used with the back box



- 4 screws to connect the camera to the back box

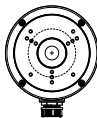




- Torx wrench



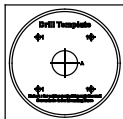
- Back box (included with camera)



- 4 screws. Used with the back box



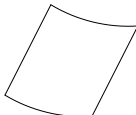
- Mounting template



- Installation guide

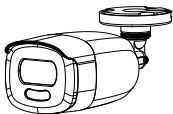


- Equipment disposal sheet

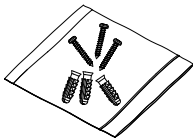


## HD-TVI fixed lens low light bullet camera (TVB-6107)

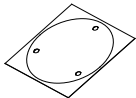
- Camera with power and video output cable harness (cables not shown)



- 3 screws and 3 anchors



- Mounting template



- Installation guide



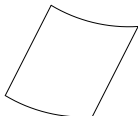
- 12 VDC connector: Two terminal connector with positive and negative indicators



- Torx wrench

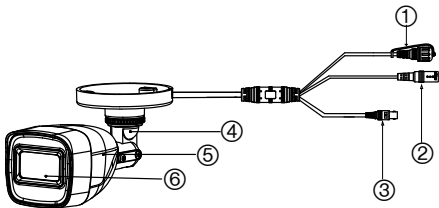


- Equipment disposal sheet



# Camera description

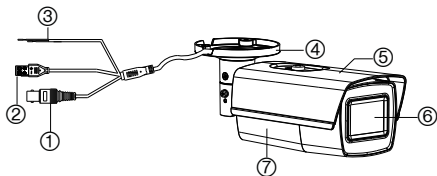
**Figure 1: HD-TVI fixed lens bullet camera (TVB-6102, TVB-6104)**



- |                                  |                  |
|----------------------------------|------------------|
| 1. TVI/960H analog switch button | 4. Mounting base |
| 2. 12 VDC power                  | 5. Camera body   |
| 3. TVI output                    | 6. Lens          |

**Figure 2: HD-TVI VF motorized lens bullet camera (TVB-6101)**

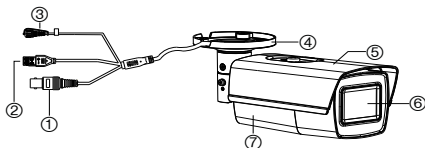
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- |                                                             |                  |
|-------------------------------------------------------------|------------------|
| 1. TVI output                                               | 4. Mounting base |
| 2. 12 VDC/24 VAC power                                      | 5. Sunshield     |
| 3. TVI/960H analog (connect wires to switch to 960H analog) | 6. Lens          |
|                                                             | 7. Camera body   |

## HD-TVI VF motorized lens bullet camera (TVB-6103, TVB-6105, TVB-6106)

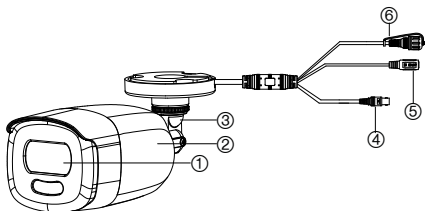
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- |                                  |                  |
|----------------------------------|------------------|
| 1. TVI output                    | 4. Mounting base |
| 2. 12 VDC/24 VAC power           | 5. Sunshield     |
| 3. TVI/960H analog switch button | 6. Lens          |
|                                  | 7. Camera body   |

**Figure 7: HD-TVI fixed lens low light bullet camera (TVB-6107)**

---



- |                  |                                  |
|------------------|----------------------------------|
| 1. Lens          | 4. TVI output                    |
| 2. Camera body   | 5. 12 VDC power                  |
| 3. Mounting base | 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



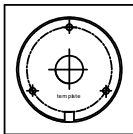
to + 60°C (-40 to 140°F). Humidity is below 90%.

- **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.

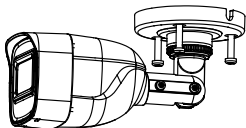
# Mounting the HD-TVI fixed lens bullet camera (TVB-6102, TVB-6104)

## Surface mount

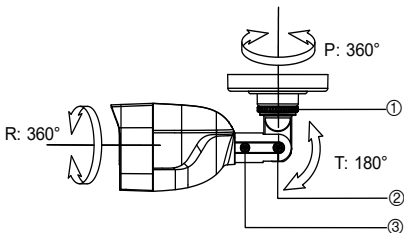
1. Place the provided template level against the mounting surface and mark the position of the mounting holes.



2. Following all local safety regulations, drill and prepare the mounting and cable access (if required) holes.
3. Route the cables through the cable access hole.
4. Secure the camera to the surface with the mounting hardware that was provided.



5. Connect the corresponding cables.  
Power up the camera to check if the monitor displays the desired view.
6. Adjust the camera to get the best viewing angle. See the figure below.

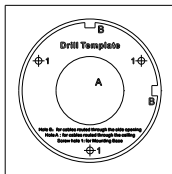


- a) Loosen the P disk (1) to adjust the pan direction [0-360°]. Tighten after completing the adjustment.
  - b) Loosen the T screw (2) to adjust the tilt direction [0-180°]. Tighten the screw after completing the adjustment.
  - c) Loosen the R screw (3) and rotate the camera [0-360°] to adjust the lens to the desired surveillance angle. Tighten the screw after completing the adjustment.
7. Tighten the locking screws and the trim ring to position the camera in place.

# Mounting the HD-TVI VF motorized lens bullet camera (TVB-6101, TVB-6103, TVB-6105, TVB-6106)

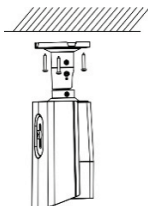
## Surface mount

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

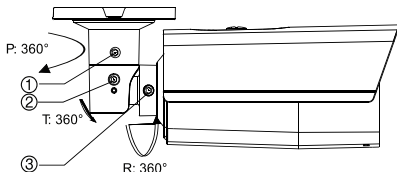


2. Following all local safety regulations, drill and prepare the mounting and cable access (if required) holes.
3. Route the cables through the cable access hole.

- Secure the camera to the mounting surface with the provided hardware.



- Connect the corresponding cables. Power up the camera to check if the monitor displays the desired view.
- Adjust the camera to get the best viewing angle. See the figure below.

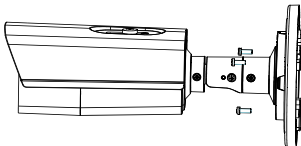


- a) Loosen the P screw (1) crew to adjust the pan direction [0-360°]. Tighten the screw after completing the adjustment.
- b) Loosen the T screw (2) to adjust the tilt direction [0-180°]. Tighten the screw after completing the adjustment.
- c) Loosen the R screw (3) and rotate the camera [0-360°] to adjust the lens to the desired surveillance angle. Tighten the screw after completing the adjustment.

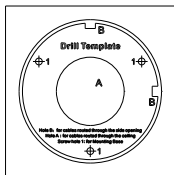
## **Surface mount when using the back box**

1. Remove the cover from the back box and align the screw holes of the bullet camera with the holes in the back box cover.
2. Route the cables through the cable access hole of the back box. Install the

camera to the back box cover using the screws provided. See figure below.

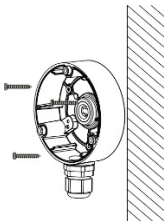


3. Place the provided template level against the mounting surface and mark the position of the mounting holes.

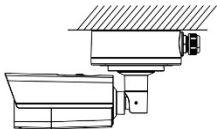


4. Following all local safety regulations, drill and prepare the mounting holes.
5. Install the back box to the mounting surface using the hardware provided.





6. Connect the corresponding cables and install the back box cover with camera to the back box. Power up the camera to check if the monitor displays the desired view.

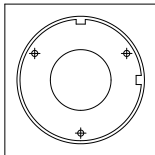


7. Refer to step 6 of “Surface mount” on page 19 to adjust the camera to the desired viewing angle.

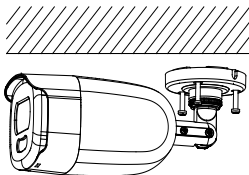
## Mounting the HD-TVI fixed lens low light bullet camera (TVB-6107)

### Surface mount

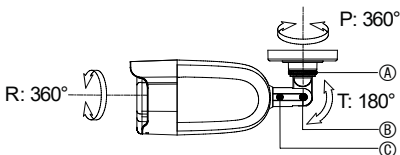
1. Place the provided template level against the mounting surface and mark the position of the mounting holes.



2. Following all local safety regulations, drill and prepare the mounting and cable access (if required) holes.
3. Route the cables through the cable access hole.
4. Secure the camera to the surface with the mounting hardware that was provided.



5. Connect the corresponding cables.
6. Adjust the camera to get the best viewing angle. See the figure below.



- A. P (pan) adjustment. Pan position range: 0-360°
- B. T (tilt) adjustment. Tilt position range: 0-180°
- C. R (rotation) adjustment. Rotation position range: 0-360°

- a) Loosen the P disk to adjust the pan direction [0-360°]. Tighten the screw after completing the adjustment.
  - b) Loosen the T screw to adjust the tilt direction [0-180°]. Tighten the screw after completing the adjustment.
  - c) Loosen the R screw and rotate the camera [0-360°] to adjust the lens to the desired surveillance angle. Tighten the screw after completing the adjustment.
7. Tighten the locking screws and the disk to position the camera in place.

# Specifications

Power supply: 12 VDC / 24 VAC

Current power consumption:

**TVB-6101:** 12 VDC: Max. 720 mA /  
24 VAC: Max. 447 mA, Max. 8.7 W

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

**TVB-6103:** 12 VDC: Max. 750 mA /  
24 VAC: Max. 580 mA, Max. 9 W

**TVB-6104:** 12 VDC: Max. 480 mA,Max.  
5.8 W

**TVB-6105:** 12 VDC: Max. 880 mA /  
24 VAC: Max. 450 mA, Max. 10.5 W

**TVB-6106:** 12 VDC: Max. 900 mA /  
24 VAC: Max. 700 mA, Max. 10.8 W

**TVB-6107:** 12 VDC: Max. 350 mA, Max.  
4.2 W

**TVB-6104/TVT-6101:** 12 VDC: Max.  
245 mA, Max. 3 W

Weight (net):

**TVB-6101/TVB-6103/TVB-6105/ TVB-6106:** 930 g / 2.05 lb.

**TVB-6102/TVB-6104:** 340 g / 0.75 lb.

**TVB-6107:** 436 g / 0.96 lb.

Dimensions:

**TVB-6101/TVB-6103/TVB-6105/ TVB-6106:** 255.2 × 84 mm / 10 × 3.3 in.

**TVB-6102/TVB-6104:** 158.6 × 58 mm / 6.417 × 2.28 in.

**TVB-6107:** 223.1 × 77.1 mm / 8.78 × 3.04 in.

## Contact information and manuals

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

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|                            |                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| EMEA:                      | <a href="https://firesecurityproducts.com">https://firesecurityproducts.com</a><br>Manuals are available in several languages. |
| Australia/<br>New Zealand: | <a href="https://firesecurityproducts.com.au/">https://firesecurityproducts.com.au/</a>                                        |

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## Legal and regulatory information

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### Certification:



### 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](http://www.recyclethis.info).





2013/56/EU & 2006/66/EC (battery directive):  
This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: [www.recyclethis.info](http://www.recyclethis.info).

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For more information on warranty disclaimers and product safety information, please check

[www.firesecurityproducts.com/policy/product-warning/](http://www.firesecurityproducts.com/policy/product-warning/) or scan the following code:

**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.





