






TruVision IP Thermal Camera Installation Guide

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Certification	  
FCC compliance	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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Introduction

Product overview

This is the installation guide for TruVision IP thermal camera models:

- TVB-5701 (IP Thermal Bullet Camera, 384x288, 15 mm)
- TVB-5702 (IP Thermal Bullet Camera, 384x288, 35 mm)
- TVB-5706 (IP Thermal Bullet Camera, 640x512, 15 mm)
- TVB-5707 (IP Thermal Bullet Camera, 640x512, 25 mm)

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 PoE switch or a 12 VDC UL listed Class 2 or CE certified power supply to power 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 without heater

is between -30 to +60°C (-22 to 140°F). Humidity is below 90%. For the outdoor cameras that feature built-in heaters, the operating temperature range is -40 to 60°C (-40 to 140°F)

- **Servicing:** Do not attempt to service this camera yourself. Any attempt to dismantle or remove the covers from 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.

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.

IP thermal bullet camera

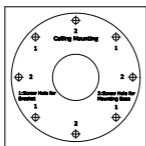
- Camera



- Back box



- Template



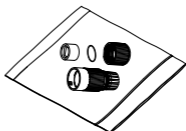
- Screws M4.8 × 18 (4 pcs) to attach the back box



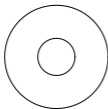
- Screws (4 pcs)



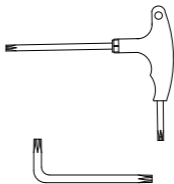
- Water joint: Provide water resistance to network connection.



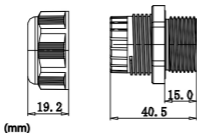
- CD with Configuration manual and TruVision Device Manager



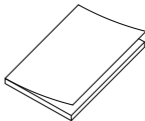
- Wrench



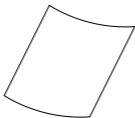
- Plastic G3/4 cable adapter



- Installation manual



- Equipment Disposal sheet



- Battery Disposal sheet



CAUTION: Use direct plug-in UL listed power supplies marked Class 2/CE certified or LPS (limited power source) of the required output rating as listed on the unit.

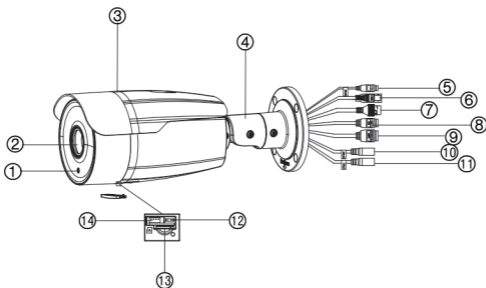
CAUTION: Risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Cable requirements

For proper operation, adhere to the following cable and power requirements for the cameras. Category 5 cabling or better is recommended. All network cabling must be installed according to applicable codes and regulations.

Camera description

Figure 1: IP thermal bullet camera



- | | |
|---------------------------|------------------|
| 1. Light sensor | 8. Power supply |
| 2. Lens | 9. Alarm I/O |
| 3. Shield | 10. Audio output |
| 4. Mounting base | 11. Audio input |
| 5. 12 VDC output | 12. Reset button |
| 6. BNC output | 13. TF card slot |
| 7. Ethernet RJ45 PoE port | 14. Serial port |

Setting up the camera

Note: If the light source where the camera is installed experiences rapid, wide-variations in lighting, the camera may not operate as intended.

To quickly put the camera into operation:

1. Prepare the mounting surface.
2. Mount the camera on the mounting surface using the appropriate fasteners. See “Mounting the IP thermal bullet camera” below.
3. Set up the camera’s network and streaming parameters so that the camera can be controlled over the network. For further information, please refer to the “TruVision IP Thermal Camera Configuration Manual”.
4. Program the camera as appropriate for its location. For further information, please refer to the “TruVision IP Thermal Camera Configuration Manual”.

Accessing the SD card

Insert a Micro SD card with up to 128GB to use the camera as an additional recording device, or as a backup in case of failure of communication with the network video recorder. The card is not supplied with the camera.

Recorded video and log files can be accessed via the web browser or via TruVision Navigator.

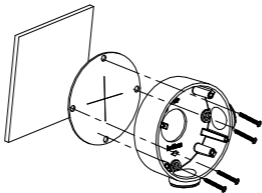
Mounting the IP thermal bullet camera

Mount the camera on a ceiling or wall.

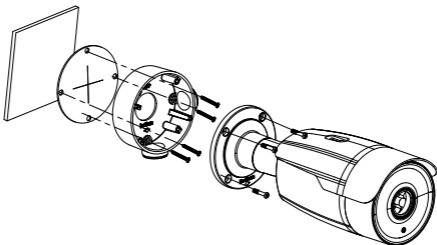
To mount the IP thermal bullet camera:

1. Use the supplied template to mark out the mounting area. Drill the screw holes on the ceiling or wall. If you need to route the cables from the camera base, drill a cable hole in the ceiling or wall.

2. Secure the back box to the ceiling or wall with the supplied screws.



3. Hook the camera to the back box with the safety cable. Use the screws to fix the camera to the back box.



Using the camera with a TruVision recorder or another system

Please refer to the NVR/DVR user manuals for instructions on connecting and operating the camera with these systems.

Using the camera with TruVision Navigator

A camera can either be connected to a TruVision recorder, or it can be added directly to TruVision Navigator. Please refer to the TruVision Navigator user manual for instructions on operating the camera with TruVision Navigator.

Specifications

TVB-5701

Electrical

Voltage input	12 VDC/24 VAC, PoE (IEEE 802.3at)
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Power consumption	Max. 20 W
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Miscellaneous

Connectors	AC/DC Power, Network, Audio, Alarm In/Out and Video
------------	-----------------------------------------------------

Operating temperature	-40 to +65 °C (-40 to +149 °F)
-----------------------	--------------------------------

Dimensions	69.8 × 58 × 145 mm (2.75 x 2.28 x 5.71 in.)
------------	------------------------------------------------

Weight	830 g (1.83 lbs.)
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TVB-5702

Electrical

Voltage input	12 VDC/24 VAC, PoE (IEEE 802.3at)
---------------	-----------------------------------

Power consumption	Max. 20 W
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Miscellaneous

Connectors	AC/DC Power, Network, Audio, Alarm In/Out and Video
------------	-----------------------------------------------------

Operating temperature	-40 to +65 °C (-40 to +149 °F)
-----------------------	--------------------------------

Dimensions	69.8 × 58 × 145 mm (2.75 × 2.28 × 5.71 in.)
------------	------------------------------------------------

Weight	830 g (1.83 lbs.)
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TVB-5706

Electrical

Voltage input	12 VDC/24 VAC, PoE (IEEE 802.3at)
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Power consumption	Max. 22 W
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Miscellaneous

Connectors	AC/DC Power, Network, Audio, Alarm In/Out and Video
------------	-----------------------------------------------------

Operating temperature	-40 to +65 °C (-40 to +149 °F)
-----------------------	--------------------------------

Dimensions	69.8 × 58 × 145 mm (2.75 × 2.28 × 5.71 in.)
------------	------------------------------------------------

Weight	830 g (1.83 lbs.)
--------	-------------------

TVB-5707

Electrical

Voltage input	12 VDC/24 VAC, PoE (IEEE 802.3at)
---------------	-----------------------------------

Power consumption	Max. 22 W
-------------------	-----------

Miscellaneous

Connectors	AC/DC Power, Network, Audio, Alarm In/Out and Video
------------	-----------------------------------------------------

Operating temperature	-40 to +65 °C (-40 to +149°F)
-----------------------	-------------------------------

Dimensions	69.8 × 58 × 145 mm (2.75 × 2.28 × 5.71 in.)
------------	------------------------------------------------

Weight	830 g (1.83 lbs.)
--------	-------------------

Pin definitions

There are eight wires on a standard UTP/STP cable and each wire is color-coded. The following shows the pin allocation and color of straight and crossover cable connection:

Figure 1: Straight-through cable

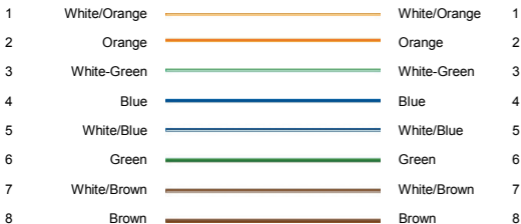
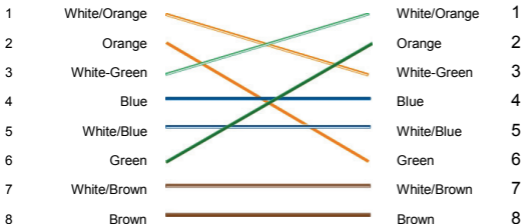


Figure 2: Cross-over cable



Please make sure your connected cables have the same pin assignment and color as above before deploying the cables in your network.

