



TruVision HD-TVI 720P and 1080P Bullet Camera Installation Guide

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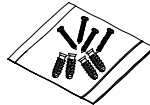
Product overview

This is the installation guide for TruVision 720P and 1080P HD-TVI bullet camera models:

- TVB-2402 (720P Bullet, 2.8 to 12 mm VF lens, PAL)
- TVB-4402 (720P Bullet, 2.8 to 12 mm VF lens, NTSC)
- TVB-2404 (1080P Bullet, 2.8 to 12 mm VF lens, PAL)
- TVB-4404 (1080P Bullet, 2.8 to 12 mm VF lens, NTSC)
- TVB-2405 (1080P Bullet, 2.8 to 12 mm motorized VF lens, PAL)
- TVB-4405 (1080P Bullet, 2.8 to 12 mm motorized)

Package contents

- Camera with power and video output cables
- 4 screws and 4 anchors for wall or ceiling installation



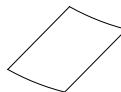
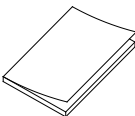
- Back box
- Screws M4.8 × 18, 4 pcs to attach the back box



- Template
- Hex wrench



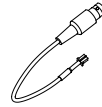
- Installation guide
- WEEE disposal sheet



CD

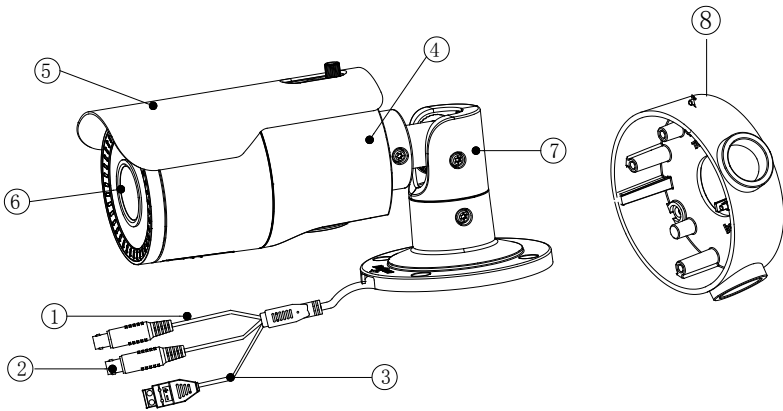


• Video test cable



Camera description

Figure 1: Camera description



- | | |
|-------------------------------|---------------------|
| 1. 960H analog output (black) | 5. Sun shield |
| 2. TVI output (gray) | 6. Lens |
| 3. Power cable | 7. Mounting bracket |
| 4. Camera body | 8. Back box |

Note: Please check the camera output settings before setting up a system. The TVI video output can be only connected to a DVR with a TVI signal input. The 960H analog output supports a standard 960H analog monitor (or test monitor), an encoder, or a DVR.

For 720P VF bullet cameras, TVB-2402 / TVB-4402, the 960H analog and TVI output cannot be used at the same time. Use the built-in switch to select the camera video output.

For 1080P VF bullet cameras, such as TVB-2404/TVB-4404 and TVB-2405/TVB-4405, the built-in switch is used to enable/disable the WDR

feature. When the WDR feature is enabled, the 960H analog output will be blocked.

Note: When making adjustments to the VF lens bullet camera, it is important to tighten the access cover for the area that contains the video test cable connector, OSD menu button, and the 960H analog /WDR/TVI selection switch. The access cover should be rotated until it is tight up against the camera body.

Figure 2: TVB-2402 /TVB-4402

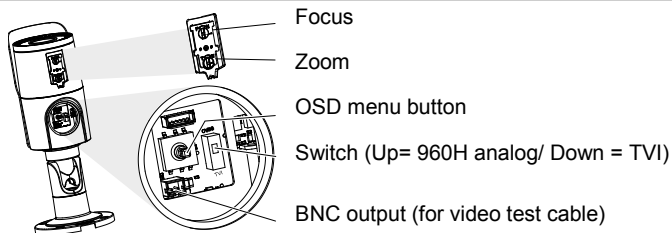


Figure 3: TVB-2404 /TVB-4404

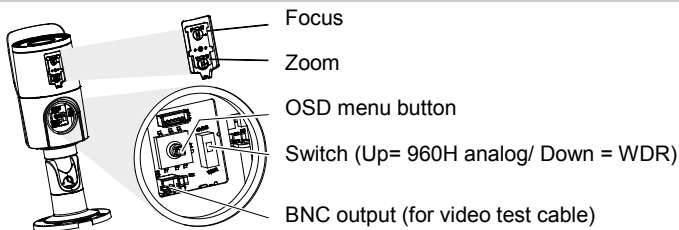
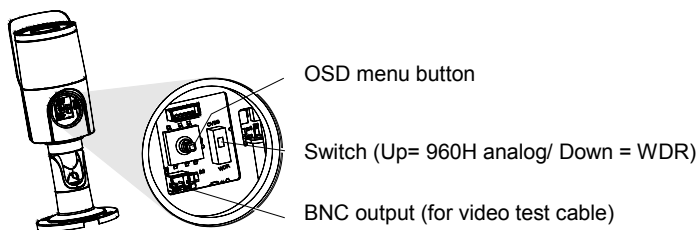


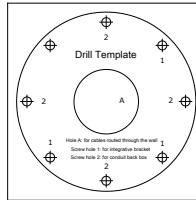
Figure 4: TVB-2405 /TVB-4405



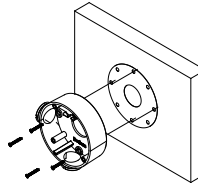
Installation

To install the camera:

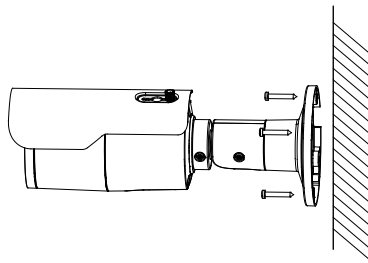
1. Using the template, place it level against the mounting surface and mark the position of the mounting holes.

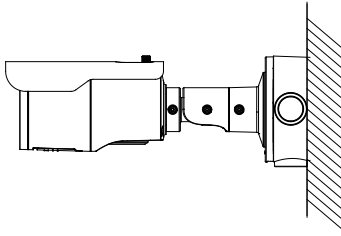


2. Following all local safety regulations, drill and prepare the mounting holes.
3. As an optional step, install the back box on the wall.

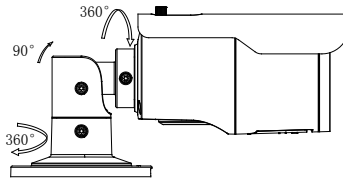


4. Route the cables to the cable hole and connect the corresponding cables. Using a 75-ohm coaxial video cable, connect the camera TVI video output to a TVI DVR, and connect a 12 VDC or 24 VAC power supply to the power cable.
5. Secure the camera to the ceiling or wall with the screws provided.



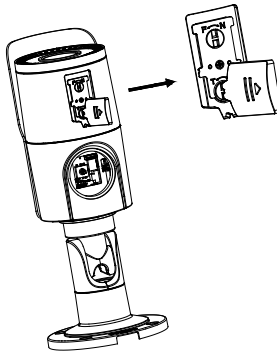


6. Loosen the three screws on the mounting bracket and adjust the camera angle according to the figure below to the optimum position. Tighten the screws after completing the adjustment.



7. Zoom and focus adjustment

- a) Manually adjust the zoom and focus on TVB-2402/TVB-4402 and TVB-2404/TVB-4404.



- b) TVB-2405/TVB-4405 has a motorized lens. Please adjust its zoom and focus by using the zoom and focus buttons on the PTZ panel of a connected recorder or controller.

Built-in heater in the TVB-2405/4405 camera

The TVB-2405/4405 camera has a built-in heater that works within the temperature range of -40 and $+60$ °C (-40 to $+140$ °F). The heater only works at 24 VAC.

When the camera initially starts up, the heater will start to work automatically when the temperature is below -10 °C (14 °F). However, with continuous operation the heater will not work until the internal temperature drops below -30 °C (-22 °F).

Note: The TVB-2402/4402 and TVB-2404/4404 operating temperature range is between -30 and $+60$ °C (-22 to $+140$ °F).

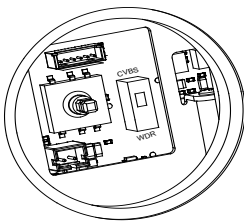
Program

Once the camera hardware has been installed, you can then program the camera.

The camera has a built-in OSD button and supports UtC (Up-to-Coax) control over both 960H analog and TVI outputs.

Using the buttons

Please press the **Menu** button to call up the OSD menu and select an OSD item.



Press the button up/down to move the cursor up or down to an OSD item.

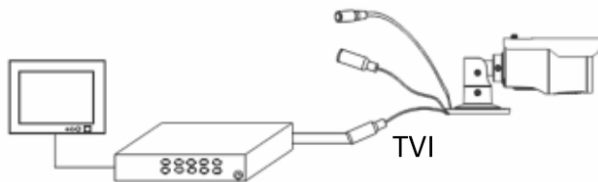
Press the button left/right to move the cursor left or right to adjust the value of a selected OSD item.

Using a TVI output

Programming over the camera's TVI output can be done via a TVI DVR.

Connect the TVI cable to the DVR, as shown below.

Figure 5: TVI cable connection



Access the PTZ menu of the connected DVR, set the **TruVision-Coax** protocol and use the PTZ control panel to configure the camera.

Click **Iris+** to access to the camera OSD menu and select an OSD item.

Click the directional buttons UP or DOWN to move the cursor up or down to an OSD item.

Click the directional buttons LEFT or RIGHT to move cursor left or right to adjust the value of a selected OSD item.

Note: TVB-2405/TVB-4405 has a motorized lens. Please use the ZOOM and FOCUS buttons to adjust its zoom and focus.

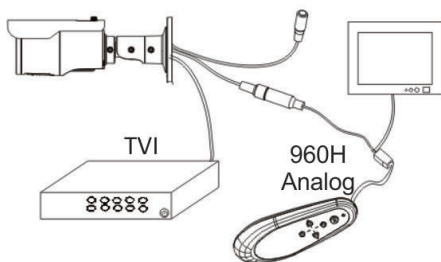
For more details, refer to the TVI DVR user manual.

Using a 960H analog output

A TVS-C200 (purchase separately) can be used to program the camera over its 960H analog output, not the TVI video output.

Connect a monitor and the TVS-C200 controller (if required) as shown below.

Figure 6: 960H analog cable connections



Press the **OK** button of the TVS-C200 for a few seconds until you see the OSD menu display on the monitor. You can also use the **OK** button to select an OSD item.

Use the directional buttons to move cursor and adjust value.

For more details, refer to the TVS-C200 user manual.

TVB-2402/TVB-4402 camera

The camera has 960H analog and TVI dual video outputs. Set the built-in switch to **CVBS/960H Analog** to view the program on a standard monitor.

The TVI is blocked until the camera configuration is complete and the switch is reset to **TVI**.

See Figure 7 on page 12 to see the menu tree.

TVB-2404/TVB-4404 and TVB-2405/TVB-4405 cameras

The cameras have 960H analog and TVI dual video outputs. The built-in switch is for WDR/CVBS selection. Set the built-in switch to **CVBS/960H Analog** to view the setup menu on a standard monitor.

When the programming is finished, you can change the switch setting to **WDR** to enable the WDR feature. In such case, the 960H analog output will be disabled.

If the switch is set to **CVBS/960H Analog**, the WDR feature is disabled and the camera has both 960H analog and TVI output available.

See Figure 8 on page 13 to see the menu tree.

Menu trees

Figure 7: TVB-2402/TVB-4402 menu tree

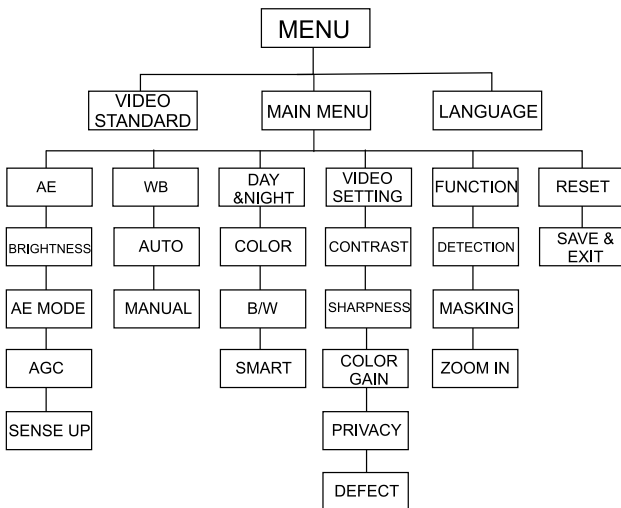
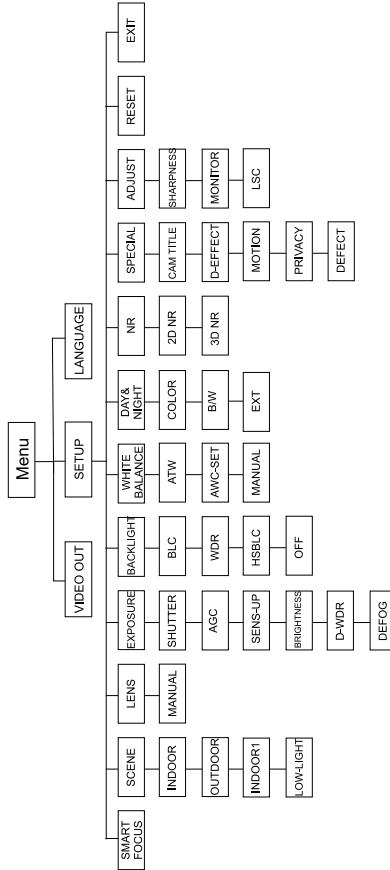


Figure 8: TVB-2404/TVB-4404 and TVB-2405/TVB-4405 menu tree



Specifications

Power supply	12 VDC / 24 VAC
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Current	TVB-2402 / TVB-4402: 12 VDC: Max. 333 mA 24 VAC: Max. 250 mA TVB-2404/TVB-4404: 12 VDC: Max. 420 mA 24 VAC: Max. 250 mA TVB-2405/TVB-4405: 12 VDC: Max. 1A 24 VAC: Max. 500 mA
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Power consumption	TVB-2402/TVB-4402: 12 VDC: Max. 4W 24 VAC: Max. 6W TVB-2404/TVB-4404: 12 VDC: Max. 5W 24 VAC: Max. 6W TVB-2405/TVB-4405: 12 VDC: Max. 12W 24 VAC: Max. 12W
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Weight (net)	TVB-2402/TVB-4402: 860 g / 1.89 lb. (without back box) 1075 g / 2.36 lb. (with back box) TVB-2404/TVB-4404: 860 g / 1.89 lb. (without back box) 1075 g / 2.36 lb. (with back box) TVB-2405/TVB-4405: 880 g / 1.94 lb. (without back box) 1095 g / 2.41 lb. (with back box)
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Dimensions	105 × 94.7 × 265.4 mm / 4.13 × 3.74 × 10.4 in. (without back box) 105 × 94.7 × 301.4 mm / 4.13 × 3.74 × 11.86 in. (with back box)
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UTC Fire & Security B.V.
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