



TruVision Analog PTZ Camera Installation Manual

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Certification    N4131

FCC compliance **Class B:** 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 in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

European Union directives



12004/108/EC (EMC directive): Hereby, UTC Fire & Security declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC.

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 see: www.recyclethis.info.

Contact information

For contact information, see www.interlogix.com or www.utcssecurityproducts.eu.

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Introduction

This pocket guide provides basic information on setting up and using the TruVision Analog PTZ Camera. Detailed information on the cameras can be found in the configuration manual.

Product overview

This is the user manual for TruVision analog PTZ camera models

- TVP-2101 (23X pendant, PAL)
- TVP-4101 (23X pendant, NTSC)
- TVP-2102 (23X surface, PAL)
- TVP-4102 (23X surface, NTSC)
- TVP-2103 (23X flush, PAL)
- TVP-4103 (23X flush, NTSC)
- TVP-2104 (36X pendant, PAL)
- TVP-4104 (36X pendant, NTSC)
- TVP-2105 (36X surface, PAL)
- TVP-4105 (36X surface, NTSC)

- TVP-2106 (36X flush, PAL)
- TVP-4106 (36X flush, NTSC)

Before you begin

Unpack everything. Check the items for damage, and verify that all items are included. The camera is shipped with the following items:

- Dome camera
- Installation manual
- CD with configuration manual

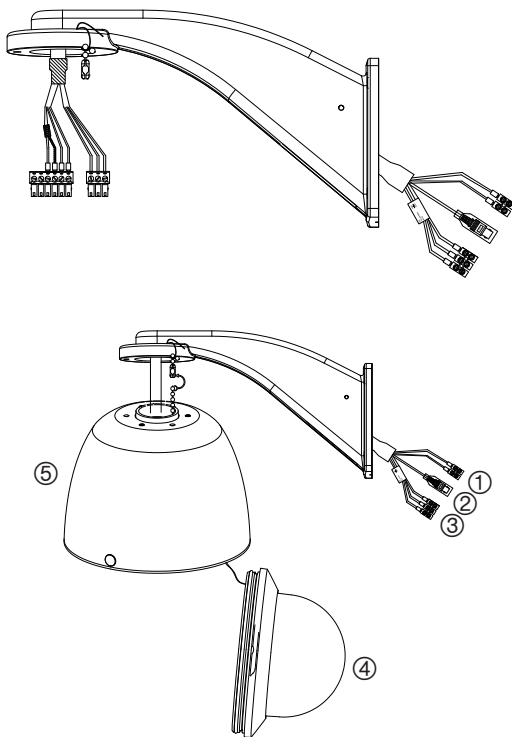
Installation environment

When installing your camera, consider these factors:

- Place the camera in a secure location.
- Ensure that the camera is in a well-ventilated area.
- Do not expose the camera to rain or moisture.

Camera description

Figure 1: Overview of the dome camera (pendant-mount shown)



1. Power supply cord.
Connect 24 VAC power supply
2. RS-485 port
3. Video output.
Connect the BNC connector to a CCTV monitor.
4. Housing.
5. Bubble.

Installing a camera

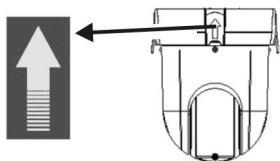
Pendant-mount cameras

1. Prepare the mounting surface and install the camera bracket.
2. Unscrew the bubble from the camera and remove the protective tape from the PTZ module.
3. Press the two tabs on either side of the PTZ module and remove it from the camera housing.
4. Configure the communication parameters for the PTZ camera. Please see Section DIP Switch Settings for detailed information of communication parameters settings.
5. Route the cables from the pendant-mount bracket, and connect it to the PCB of the module through the cable entry hole on top of the housing.

Note: If alarm and audio input/output relays are to be used, also connect them to the PCB of the module.

6. Attach the camera housing to the bracket using the screws enclosed with the bracket.
7. Insert the PTZ module into the housing:

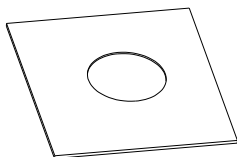
Position the tabs on the PTZ module by aligning the arrow label on the module with those on the housing (see below). The module should snap firmly into position. If using an SD card, insert it into the module before inserting the module into the housing.



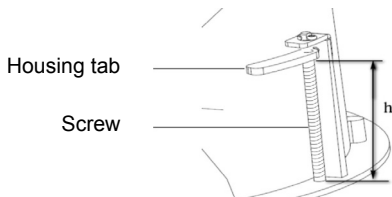
8. Re-attach the bubble by screwing it to the housing.

Flush-mount cameras

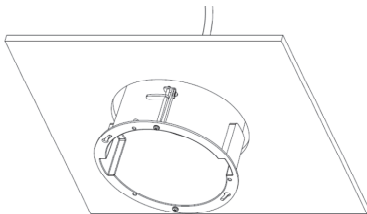
1. Using the drill template, drill a hole on the ceiling.



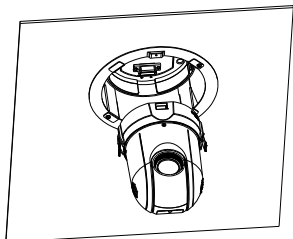
2. Unscrew the bubble from the camera and remove the protective tape from the PTZ module.
3. Press the two tabs on either side of the PTZ module and remove the module from the camera housing.
4. Configure the communication parameters for the PTZ camera. See the section "DIP switch settings" on page 11 for detailed information on the communication parameters settings.
5. Adjust the height of the two housing tabs by turning the screw on which they are attached. The distance (h) of the tabs from the housing ring must be greater than the thickness of the ceiling.



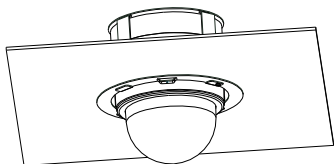
6. Make sure the housing tab is closed and then PUSH the housing into the pass-through hole. Hold the housing and fix it by screwing the housing tabs down to the mounting surface.



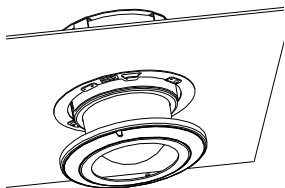
7. Insert the PTZ module into the housing:



8. Re-attach the bubble by screwing it to the housing.

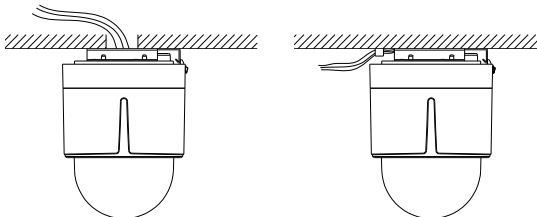


9. Install the trim ring. Align the trim ring to the housing, and insert the fix-pins to the holes. Then rotate the ring clockwise.

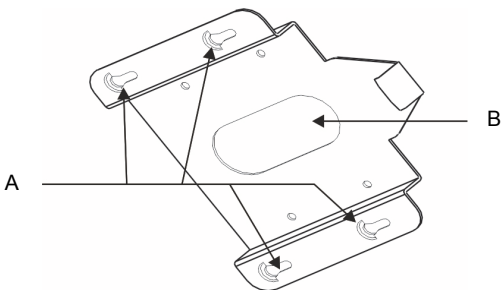


Surface-mount cameras

The PTZ camera cables can be routed either from the top or side of the housing (see figures below). For the cables routed from the top of the housing, you need to drill a cable hole in the ceiling.

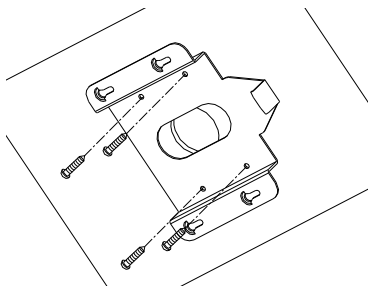


1. Using the mounting base as a template, mark four screw holes on the ceiling. If you are routing cables from the top of the housing, mark the cable hole on the ceiling and drill a hole.



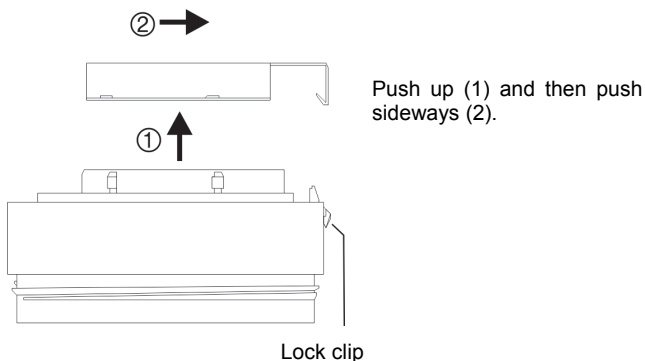
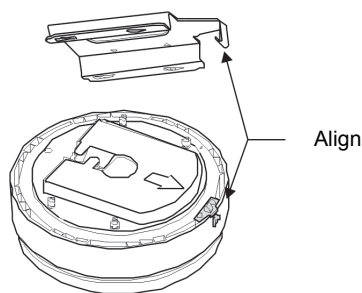
A. Screw holes; B. Cable hole

2. Secure the mounting base to the ceiling with screws.

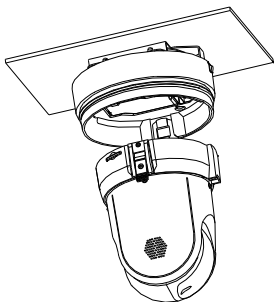


3. Unscrew the bubble from the camera and remove the protective tape from the PTZ module.

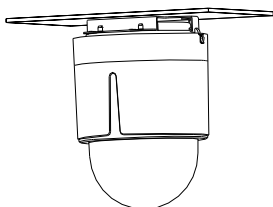
4. Press the two tabs on either side of the PTZ module and remove the module from the camera housing.
5. Configure the communication parameters for the PTZ camera. See “DIP switch settings” on page 11 for detailed information on the communication parameters settings.
6. Connect the cables to the PCB of the module through the cable entry hole on the top of the housing.
7. Attach the housing to the mounting base. Align the arrow head with the spring end of the mounting base. Push the housing up and then sideways in the direction of arrow. When the housing is correctly positioned, the spring automatically snaps firmly into the lock clip. See the figures below.



8. Insert the PTZ module into the housing:



9. Re-attach the bubble by screwing it into the housing.



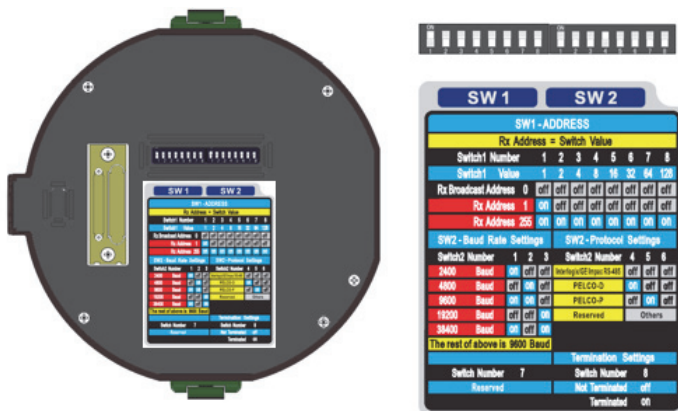
Warning: After installation, the PTZ module will perform a PTZ self-test and initializes with the power on. DO NOT touch and move the camera while it is self-testing and initializing.

DIP switch settings

Two DIP switches, *SW1* and *SW2*, are used to set the PTZ dome address, baud rate, protocol, etc. The values are ON=1 and OFF=0. See Figure 2 on page 12.

Each DIP switch number represents a DIP switch value, ranging from 1 to 8 from the lowest to highest.

Figure 2: DIP switch settings



SW 1				SW 2				
SW1 - ADDRESS								
Rx Address = Switch Value								
Switch1 Number	1	2	3	4	5	6	7	8
Switch1 Value	1	2	4	8	16	32	64	128
Rx Broadcast Address 0	off	off	off	off	off	off	off	off
Rx Address 1	on	off	off	off	off	off	off	off
Rx Address 255	on	on	on	on	on	on	on	on
SW2 – Baud Rate Settings			SW2 – Protocol Settings					
Switch2 Number	1	2	3	Switch2 Number	4	5	6	
2400 Baud	on	off	off	Interlogix/GE Impac RS-485	off	off	off	
4800 Baud	off	on	off	PELCO-D	on	off	off	
9600 Baud	on	on	off	PELCO-P	off	on	off	
19200 Baud	off	off	on	Reserved	Others			
38400 Baud	on	off	on					
The rest of above is 9600 Baud								
				Termination Settings				
Switch Number 7				Switch Number 8				
Reserved				Not Terminated off				
				Terminated on				

Address settings

DIP switch SW1 is used to set the address of the PTZ dome. See Table 1 below to set the PTZ camera address to a specific number.

Table 1: PTZ camera addresses

Address	1	2	3	4	5	6	7	8
0	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
255	ON	ON	ON	ON	ON	ON	ON	ON

Baud rate settings

Use positions 1, 2, and 3 of DIP switch SW2 to set the baud rate of the PTZ dome. The values to select are 2400 bps, 4800 bps, 9600 bps, 19200 bps and 38400 bps. The default baud rate is 2400 bps. See Table 2 below.

Table 2: Baud rate values

Baud rate	1	2	3
2400	ON	OFF	OFF
4800	OFF	ON	OFF
9600	ON	ON	OFF
19200	OFF	OFF	ON
38400	ON	OFF	ON

Protocol Settings

Use positions 4, 5, and 6 of DIP switch SW2 to set the communication protocols of the dome. See Table 3 below.

Table 3: Protocol values

Protocol	4	5	6
Interlogix-485	OFF	OFF	OFF
PELCO-D	ON	OFF	OFF
PELCO	OFF	ON	OFF
Reserved	Others		

Specifications

Operating temperature	Pendant-mount housing: -30 to +65 °C Flush-mount housing: -20 to +65 °C Surface-mount housing: -20 to +65 °C
Power supply	24 VAC +/- 3.6 VAC
Power consumption	Pendant-mount housing: Max. 35 W Flush-mount housing: Max. 15 W Surface-mount housing: Max. 15 W
Dimensions (mm)	Pendant-mount housing: Ø 220 × 266 mm Flush-mount housing: Ø 206 × 251 mm Surface-mount housing: Ø 180 × 240 mm
Environmental	Pendant-mount housing: IP66 Flush-mount housing: IP54 Surface-mount housing: IP44
Weight	Pendant-mount housing: 3.5 kg Flush-mount housing: 3 kg Surface-mount housing: 2.5 kg
