TruVision TVT-2103/ TVT-4103 IR Turret Camera Installation Instructions

Figure 1: Parts of the camera
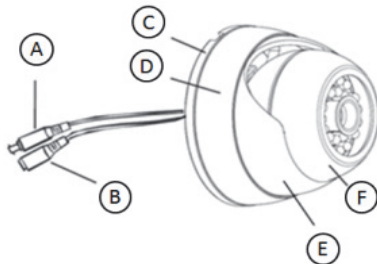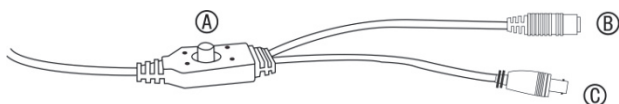
A. Video cable
B. Power cable
C. Mounting bracket
D. Fixed Ring
E. Shroud
F. Camera

Figure 2: Camera front
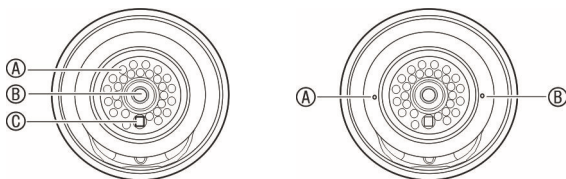
A. LED IR lights; B. Lens; C. Light sensor

A. Focus; B. Zoom

Figure 3: OSD control cable

A. OSD button; B. power cable; C. video cable

Overview

These are the TruVision IR Turret Camera installation instructions for TVT-2103/4103. The instructions describe a standard installation.

The camera consists of the following:

- Camera with power and video output cables
- Camera shroud
- Fixed ring to secure the camera and camera shroud to the mounting bracket
- One dual power terminal block with its screw and anchor
- Gang box adapter plate with 4 small screws and 2 long screws
- 4 rubber plugs
- 4 anchor and 4 screw for wall or ceiling installation

Refer to Figures 1, 2 and 3 when performing the camera setup procedures.

Installation

When installing the camera, please use the mounting bracket.

To install the camera:

1. Using the mounting bracket as a 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. Route the camera's cable through the mounting bracket, and then install the mounting bracket with the four provided screws. If your mounting surface requires it, use the provided wall anchors or other appropriate fasteners.

4. While holding the camera in place, set the camera shroud over the camera.

5. Adjust the camera position.

6. Connect a 75 ohm coaxial video cable to the camera's video cable, and connect a 12 VDC/24 VAC power supply to the power cable.

Note: When installing the camera, tilting the camera housing past 80° may result in reflection of IR illumination from the camera base into the lens. This can distort or obscure the picture in night mode.

7. Check the picture and adjust the camera position and angle as required.

8. Tighten the fixed ring to secure it to the mounting bracket. Ensure that the camera shroud is firmly attached to the bracket.

9. If necessary, use a flat blade screwdriver to adjust the zoom first, and then the focus (see Figure 2).

Note: After adjusting the focus and zoom, please insert the enclosed rubber plugs into the focus and zoom openings to prevent moisture ingress.

Programming

Once the camera hardware has been installed, the camera can then be configured. See Figure 4 on page 2.

The Setup menu provides access to the camera configuration options. The on-screen display (OSD) is only available in English, Chinese, Korean, Japanese, Russian, French, Spanish, Italian, Portuguese, Dutch, German, Polish, Turkish, Hebrew, and Arabic.
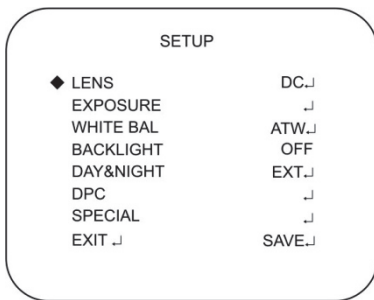
Program the camera by attaching a standard video monitor to the system.

To access the Setup menu:

1. Press the OSD control button (**Enter**) to access the Setup menu and its submenus.

2. Push the button up, down, left, and right to move between menu options.

3. Press the OSD control button to select an option.

4. When in a submenu, select **Return** to return to the previous menu.

5. To exit the Setup menu, move the cursor to **Exit** at the bottom of the screen and press **Enter**. All changes are saved.

Note: In the Day/Night submenu, only EXT mode is available. The AUTO, COLOR, and B/W modes are disabled to avoid IR cut circulation in low light conditions.

Figure 4: Setup menu

```
                    SETUP

        ◆ LENS              DC↵
          EXPOSURE           ↵
          WHITE BAL         ATW↵
          BACKLIGHT         OFF
          DAY&NIGHT         EXT↵
          DPC                ↵
          SPECIAL            ↵
          EXIT ↵            SAVE↵
```

Specifications

Power supply	24 VAC/12 VDC
Current	24 VAC 139mA/ 12 VDC, 131 mA (IR OFF) 24 VAC 399mA/ 12 VDC, 457 mA (IR ON)
Power consumption	24 VAC 1.6W/ 12 VDC, 1.572W (IR OFF) 24 VAC 5.2W/ 12 VDC, 5.484W (IR ON)
Weight	1.7 lb. (760 g)
Dimensions (H × Ø)	3.25 x 4.7 (82 x 119 mm)

Regulatory information

Manufacturer	UTC Fire & Security Americas Corporation, Inc. 2955 Red Hill Avenue, Costa Mesa, CA 92626 5923, USA Authorized EU manufacturing representative: UTC Fire & Security B.V. Kelvinstraat 7, 6003 DH Weert, The Netherlands
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.
Certification	CE ⊘ N4131
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.
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