



TruVision Analog Wedge Camera User Manual

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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
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: <ul style="list-style-type: none">• 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.
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 Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-0330 du Canada.
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Contact Information	For contact information, see www.interlogix.com or www.utcssecurityproducts.eu .

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Introduction

Product overview

This is the installation guide for TruVision analog wedge camera models:

- TVW-2101
- TVW-4101

Features

This section describes the camera features.

- Adopt high-performance sensor, 700TVL resolution, providing high definition and clear image
- IR cut filter realizes day/night surveillance

- Auto-white balance with high color rendition
- Auto electronic shutter control to adapt to the different surveillance environments
- Auto gain control, adaptive brightness
- High SNR
- Environmental rating IP66

Installation

This chapter 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 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 is between -40 to +60°C.
- **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 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.

Package contents:

- Camera
- Hex wrench
- User manual
- Mounting template

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.

Cable requirements

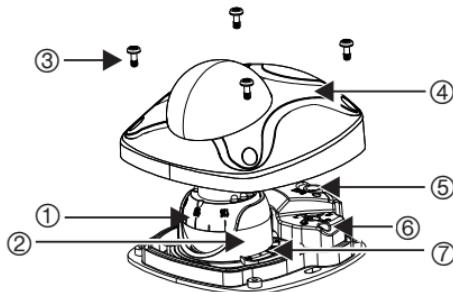
For proper operation, adhere to the following cable and power requirements for the cameras (see Table 1).

Table 1: Recommended power cable requirements

Wedge camera:	12 VDC power jack
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Camera description

Figure 1: analog wedge camera



- | | |
|---------------------|--------------------|
| 1. Camera | 5. Shield |
| 2. Enclosure | 6. Mounting base |
| 3. Fastening screws | 7. Adjusting screw |
| 4. Upper cover | |

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.

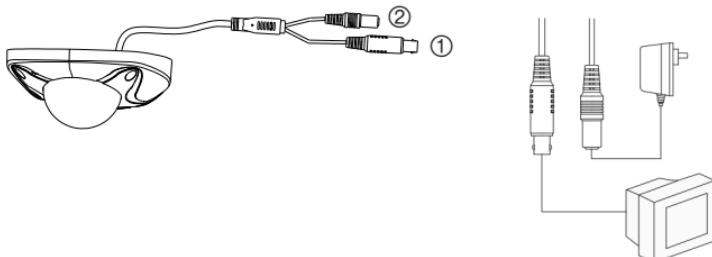
To quickly put the dome camera into operation:

1. Prepare the mounting surface.
2. Connect the power cable and video cable to the camera. See "Connecting the devices" below.
3. Mount the camera to the ceiling using the appropriate fasteners. See "Mounting the wedge camera" below.
4. Set up the camera's image parameters. See "Configuring the wedge camera" on page 8.

Connecting the devices

A qualified service person, complying with all applicable codes, should perform all required hardware installation.

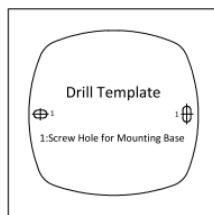
Figure 2: Connections on the base of the wedge cameras



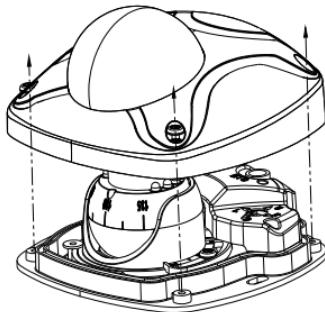
1. Power supply
Connect 12 VDC power supply.
2. BNC port
Connect to DVR or monitors.

Mounting the wedge camera

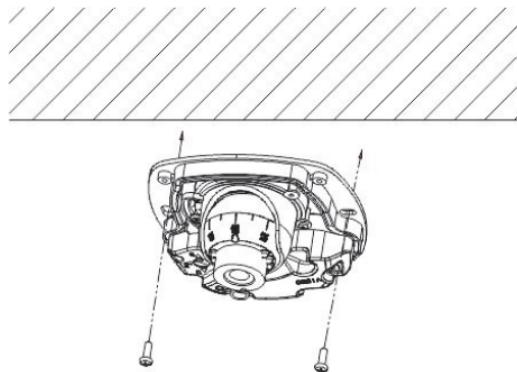
1. Use the supplied template to mark out the mounting area. Drill the screw holes on the ceiling.



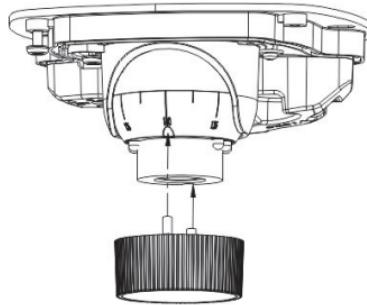
2. Loosen the fasten screws to remove the upper cover from the device.



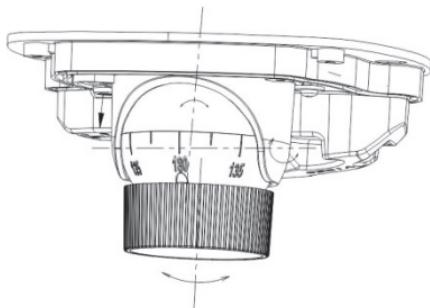
3. Fix the mounting base to the ceiling with the supplied screws.



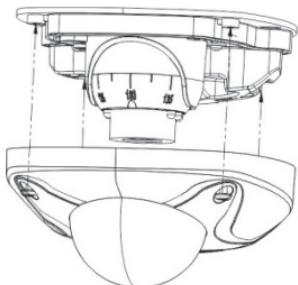
4. Align the supplied adjusting tool to the small hole on the camera, and push it to get it fixed.



- Using the adjusting tool, loosen the adjusting screw to adjust the pan angle ($\pm 30^\circ$), the tilting angle ($0^\circ \sim 85^\circ$), and the rotation angle ($\pm 180^\circ$). Then tighten the adjusting screw.



- Configure the camera by pressing OSD button. Please see "Configuring the wedge camera" below.
- Install the upper cover back by tightening the fasten screws.



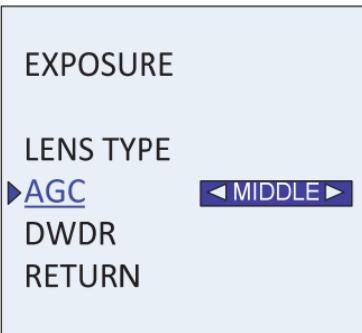
Configuring the wedge camera

Press the OSD button on the camera to control the OSD menu. Push the button up, down, left and right to move between the different menu options. Press the OSD control button to select an option.

The Setup menu provides access to the camera configuration options as following. See "OSD Menu Tree" on page 12.

Exposure

Move the cursor to **Exposure** and press **OK** to enter the exposure parameters menu, as shown below.



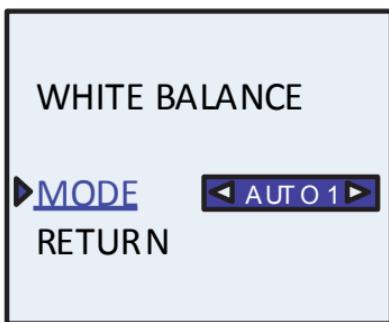
Lens type: Define the fix and iris options.

AGC: Define the automatic gain control value (High, Middle, Low, Off).

DWDR: Define the digital wide dynamic range value (High, Middle, Low).

White Balance (WB)

Move the cursor to **WB** and press **OK** to enter the white balance configuration menu, as shown below.



There are 2 options available:

Auto 1: Select when the environment color temperature is stable.

Auto 2: Select when the environment color temperature is complicated.

Day and Night

Move the cursor to **D&N** and press **OK** to enter the day and night configuration menu, as shown below.



Select one of the four mode options: Smart, Auto, B/W, and Color.

In Smart mode, you can select **Set** as ON or OFF. You can set IR LED working mode as ON or OFF. When Off is selected, the camera switches to B/W night mode. Then move the cursor down to select the **Level** from 1 to 5 to avoid over-exposure or to increase brightness.

In Auto mode, the IR LED is turned on automatically when the camera switches to B/W night mode. The picture brightness is not adjustable.

Video Setup

Move the cursor to **Video Setup** and press **OK** to enter the video configuration menu, as shown below.



Brightness: Move the joystick left or right to adjust the brightness of the image.

Contrast: Move the joystick to left or right to adjust the contrast.

Color gain: Move the joystick to left or right to adjust the color gain.

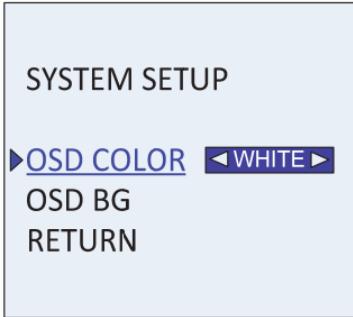
Sharpness: Move the joystick to left or right to adjust the sharpness.

NR: Move the joystick to left or right to set the NR to high, middle, default, or low.

Mirror: Move the joystick to left or right to set the mirror to default, HV, V, or H.

Language: Select the desired language. Chinese and English are available.

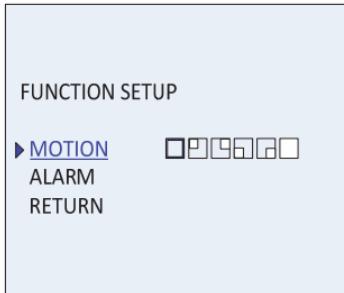
System setup: Move the Joystick to **System Setup** and press **OK** to enter the system setup menu, as shown below.



Select white, red, or yellow for the OSD color. Set the OSD background to ON or OFF.

Function Setup

Move the joystick to **Func. Setup** and press **OK** to enter the function setup menu, as shown below.



Move the joystick to **Motion** and press **OK** to enter the motion detection menu. There are five different detection areas to select. Select **Alarm** mode to ON or OFF to enable or disable the motion detection setting.

The configured area flickers in live view when the motion detection is triggered.

Reset

Move the joystick to **Reset**, and press **OK** to enter the reset menu. Select **Yes** to restore all the settings to the factory default.

Save & Exit

Move the joystick to Save & Reset and press OK to save the settings and exit the menu.

Specifications

Electrical

Voltage input	12 VDC
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Miscellaneous

Connectors	DC jack flying lead
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Operating temperature	-40 to +60 °C (-40 to +140°F)
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Dimensions (D × H)	97 × 46.6 × 99.5 mm (3.82" × 1.83" × 3.92")
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Weight	300 g
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Environmental rating	IP66
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OSD Menu Tree

