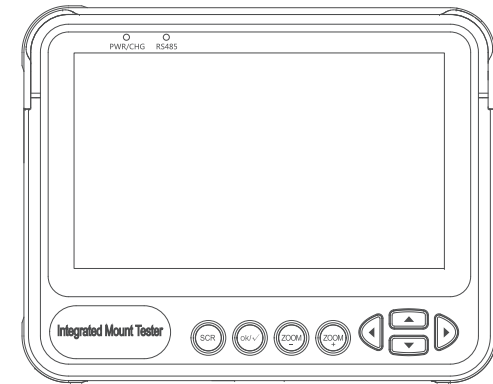


# Integrated Mount Tester User Manual



## Attention

- ◆ Thank you for purchasing the Tester. Please read this manual before using the tester.
- ◆ Please first read the "safety information" carefully.
- ◆ The manual should be kept in a safe place for future reference.
- ◆ Keep the S/N label for a After-sale service within warranty period. Product without the S/N label will be charged for repair service.
- ◆ Contact technical support if there is any question or problem with tester or if the tester is damaged.
- ◆ The images contained within are for illustrative purposes and may not reflect your model.
- ◆ Passages marked with "\*" indicate that only some models have this function.
- ◆ The working hours of the built-in battery will be reduced when using the 12V output due to the high power consumption of external devices.

## Safety Information

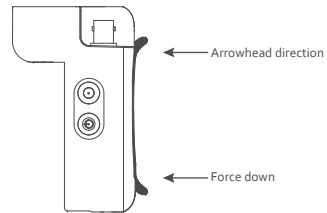
- ◆ Comply with all local electrical codes.
- ◆ Use the original accessories to avoid damage that may be caused by unauthorized accessories.
- ◆ Do not expose the product to rain or moisture, which may cause performance degradation or damage.
- ◆ Do not leave the tester unattended while charging. If the battery becomes too hot, users should cut off power immediately. Charging time should be no more than 8 hours.
- ◆ Do not use in high humidity areas. If the equipment gets wet, disconnect immediately the battery, power cable, and other cables.
- ◆ Do not use in environments with flammable gases.
- ◆ Do not attempt to disassemble the instrument. There are no user-serviceable parts inside. Contact technical support before attempting any service.
- ◆ Do not use in environments with strong electromagnetic interference.
- ◆ Do not use detergent for cleaning. Use a dry cloth to wipe off dirt. If the dirt is difficult to remove, then use a soft cloth moistened with water or a neutral detergent and fully wring it out before use.
- ◆ The top LED is high brightness LED. Do not look directly at the LED light when it is turned on, so as to avoid visual injury or other accidents.

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## Device Diagram and Function

### 1. Install the wristband

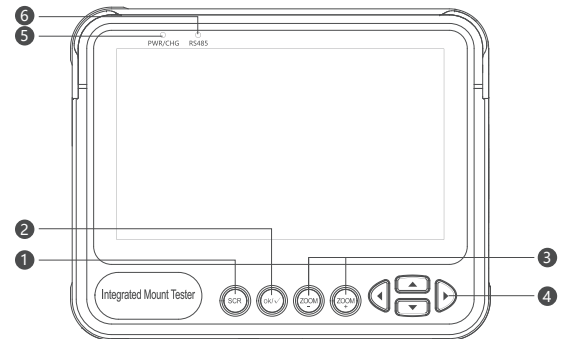
Align the arrows on the wrist band and the arrows on the tester (as shown below), connect the upper part of the band first, and then connect the lower part of the band until you hear an audible click.



The wristband quick disassembles from the tester. Press and hold the disassembly button at the bottom of the tester, and lift it up to separate the wristband from the tester.

**Attention:** When working at height, please confirm that the wristband is installed successfully to prevent falling accidents.

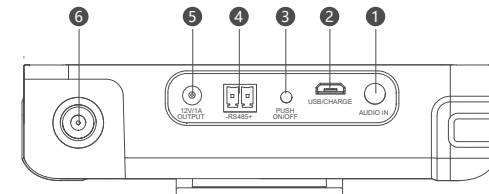
### 2. Appearance Introduction



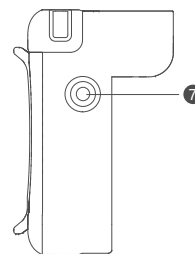
2

1	Function key
2	Confirmation key
3	Control camera zoom
4	Control the direction of the operation button
5	Red: Power off and charge Yellow: Power on and charge Green: Power on, no charge Light off: power off, complete charging/no external power supply
6	Data light: Flickers when sending data

### Top Side

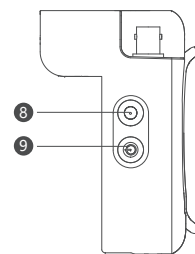


### Left Side



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### Right Side



1	Audio Input: 3.5 mm audio connector.
2	Use to connect the device to a computer or to charge the tester.
3	LED light.
4	R5485 Output. Use to control PTZ cameras.
5	Power Output: DC12V/1A , automatically stops when it exceeds this output power.
Attention: Do not connect the external power supply (such as charger, etc.) to the port, otherwise the tester will be damaged.	
6	Analog Video Input BNC Connector.
7	LED light.
8	LED light.
9	Power button to turn the tester on/off. Press and hold for 18 seconds to force shutdown.

## Operation Instructions

### Installing Battery and Recharging

The tester uses a rechargeable lithium-ion polymer battery. To ensure safety when transporting, ensure the battery is disconnected from the tester.

The device may leave the factory with one of the following two battery placements:

Take off the yellow rubber cover, remove the battery cover of tester, install the battery.

### Attention:

Please distinguish positive and negative electrodes when installing batteries.

When the battery level is too low, the charging indicator blinks 3 times and then stops. If the tester cannot start, please charge.

**⚠** Do not use non-standard power charger to charge the tester, which may damage the tester.

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### Turning the Device On and Off

To turn on the device, press and hold **⏻** for 5 seconds. The PER/CHG icon illuminates green when the device is turned on.

To turn off the device, press **⏻** and hold more than 5 seconds.

When the device is on, press the **ESC** key to switch to the function select menu. Press **ESC** multiple times or use the **⏪** **⏩** arrow keys to select a function.

Press the **ESC** key to enter the selected function.

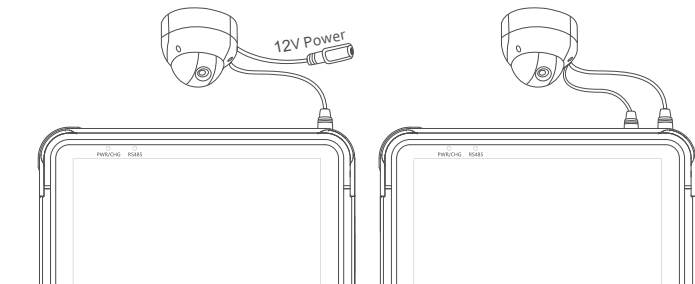
### Analog Video Test

Used to test Analog SD and Analog HD camera signals. The screen displays the video image, video format, and signal level. It is also used to send coaxial HD commands through the RS485 cable to control PTZ cameras.

### 1. Connecting to an Analog Camera

Use the coax cable with BNC connector to connect to an analog camera to the tester via the video input connector on the top side of the tester.


The camera can be self-powered using its own power adapter or use the tester's 12V 1A power output.

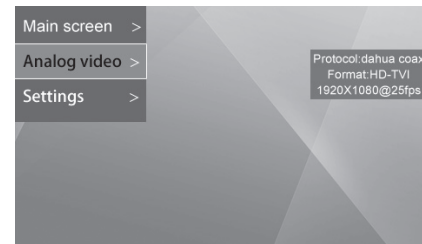


**⚠** Do not exceed the maximum output power of the tester.

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## 2. Analog Video Test

1. Connect the camera to the tester with the coax cable.
2. Select Analog video from the main interface or press  key to select Analog video from the menu, and then enter the camera test interface for testing.



## 3. Camera OSD menu

Enter the setting interface to set the protocols used by the analog camera, such as CVI protocol (dahua coax), AHD protocol (Pelco c) and TVI protocol (Hikvision) or choose an adaptive coax protocol.

After entering the analog video interface, press OK to call up the OSD menu for the analog camera, then select the desired camera function.

For an analog PTZ camera, enter the setting interface, select "PTZ camera Control" - OSD Control, click OK to call up the OSD menu of PTZ camera.

## 4. HD Coaxial PTZ Control

Enter the setting interface to set the corresponding control protocol and relevant parameters. After setting, the camera can be controlled.

The settings are as follows:

Protocol	Select Coaxial PTZ protocol CVI protocol (dahua coax) AHD protocol (Pelco c) TVI protocol (Hikvision)
Baud Rate	Not Necessary for Coaxial Control
Address	Address of PTZ to control. Due to different camera manufacturer setting, the address may offset by +/- 1. Address range depends on the protocol.
Speed	Expected PTZ speed, range from 1~63.
Set Preset	Camera's current position to its internal storage. This function is provided by the camera. Refer to the camera manual.
Go Preset	The camera moves to the corresponding pre-saved position at maximum speed. This function is provided by the camera, please refer to the camera manual.

After setting, press the  key to exit. Settings are applied immediately.

After the setting is valid, use  key and Directional key to control the PTZ.

## 5. RS485 PTZ Control

Enter the setting interface to set relevant RS485 parameters. After setting, RS485 control can be carried out on the camera.

The settings are as follows:





Protocol	Select RS485 PTZ protocol. The tester supports many PTZ protocols.
Baud Rate	RS485 communication baud rate.
Address	Address of PTZ to control. Due to different camera manufacturer setting, the address may offset by +/- 1. Address range is depend on the protocol. Coaxtron no need to set up.
Speed	Expected PTZ speed, range from 1~63.
Set Preset	Camera's current position to its internal storage. This function is provided by the camera. Refer to the camera manual.
Go Preset	The camera moves to the corresponding pre-saved position at maximum speed. This function is provided by the camera, please refer to the camera manual.

Use supplementary RS485 power cable to connect to the PTZ RS485 communication lines.

Use and Directional key to control PTZ turn up.

## 6. UTC Function

Access the Setting function and select "SD-UTC" protocol.

Press  key to switch "TVI",  key to switch "AHD", the  key to switch "SD", and the  key to switch "CVI". Select the protocol "UTC-B" when the speed dome uses this feature.

**Attention:** This function supports switching from SD mode to HD mode. Please use OSD to switch before HD mode.

## Analog Audio Test


The tester is equipped with an audio function to test microphones or other audio devices. After the connection is established, the tester broadcasts sound from the device via the built-in speaker.

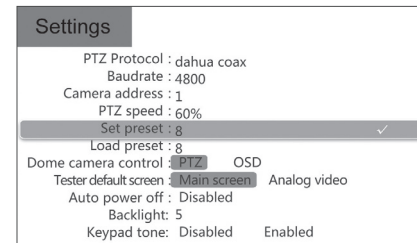
**Attention:** Use the 3.5 mm audio cable that shipped with the tester to connect audio device. The Black clamp is earth connection, the red clamp is signal connection.

Please connect earth first to avoid a loud noise during connection.


## System Setting

Use the System settings function to access the Operating parameters.


Press  button to choose "settings" function, press  button and access into "settings" interface.



Use  button to choose the needed options or the needed functions.

After modifying the settings, press  to save up the setting.

## Automatic shut-down Time Setting

Choose the Automatic shut-down function, press  button to adjust the options.

Adjust the step length to 5 Min. Minimum 5 Min, Maximum 60 min. Select disable to turn off automatic shutdown.

Tester will be power-off when it's idled to the setting time.

## Setting Keyboard Sound Prompts

Choose the keyboard sound function to turn keyboard sounds on or off.

## Modify Back-light Brightness

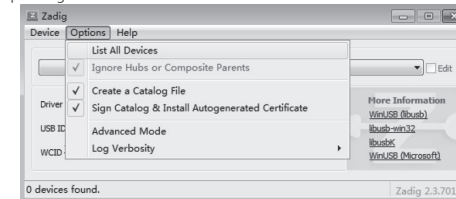
Choose back-light brightness function to adjust screen back-light brightness.

The tester display screen back-light brightness has 10 levels of adjustment and increases screen brightness in outdoor environments with a bright light.

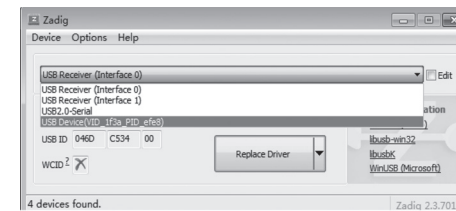
## System Upgrade

1. Place the tester into burning mode.
2. Connect the USB end to the tester.
3. Connect the other end of the USB cable to the computer.
4. Press the light button next to the power button. Then, press the power button and the light button for 3 seconds at the same time. The device enters the burning mode.
5. Use zadig-2.3 to install the USB driver of the corresponding device
6. Click on the computer to run zadig-2.3 software.

7. Click on Options in the menu bar, Select List All Devices, then select the USB of the corresponding device in the list below.

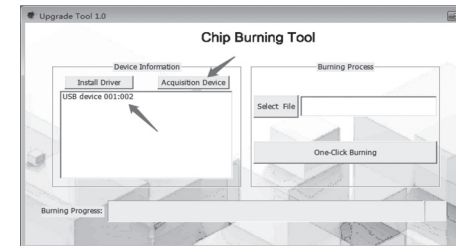


8. Click the Install Driver button to install the corresponding driver.

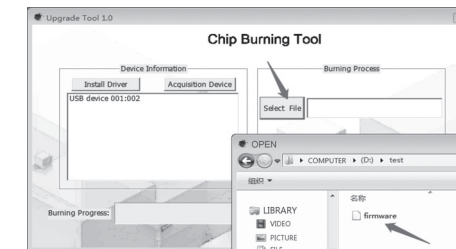


9. Click on the Upgrade Tool 1.0.exe to run the software.

10. Click the Acquisition Device button on the left to get the device USB information in the list.



11. Click the file Select File button on the right. In the pop-up selection folder, select the bin file you want to burn.



12. Disconnect the USB connection between the burning device and the computer, and exit the burning mode.

13. Press the power button to restart the device to view the burned information.