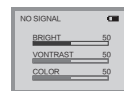## 5、Operation

■ Pressing ⊙ key more than 3 seconds can turn on the tester.

■ If the tester has turned on, pressing ⊙ key more than 3 seconds can trun off the tester, can also set time off.

■ When turn it on, press the key ⊖ to enter the function menu, press ⟵ ⟶ ⊙ ⊙ key to quickly switches to the desired function menu.

■ When turn it on, press the key ⊖ to enter the function menu, select different function, and press the key FOCUS- FOCUS+ to change the parameter value, press ⊖ to save setting and exit menu.
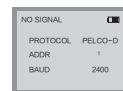
```
NO SIGNAL                 ▭
     BRIGHT          50
     VONTRAST        50
     COLOR           50
```
First page menu

Press ⊕ to the menu, press ⟵ ⟶ to chose the item, press ZOOM- ZOOM+ to change the value, LCD brightness, contrast, color saturation can be adjusted, press ⊖ to save and exit.

```
NO SIGNAL                 ▭
     ENGLISH
     MODE
     RESET
```
Second page menu

Press ⊕ to the menu, press ⊙ to change to the next page, press ⟵ ⟶ to chose the item, press ZOOM- ZOOM+ to set the language, video format(AHD、TVI、CVI) and reset.

```
NO SIGNAL            ▭
     PROTOCOL    PELCO-D
     ADDR           1
     BAUD         2400
```
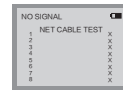Third page menu

Press ⊕ to the menu, press ⊙ to change to the thrid page, press ⟵ ⟶ to chose the item, PTZ protocol, baud, address can be set, press ⊖ to save and exit.

Press ⊙ ⊙ ⟵ ⟶ to control the PTZ direction of rotation.
Press FOCUS- FOCUS+ to adjust the focus manually.
Press ZOOM- ZOOM+ to adjust the zoom manually.

```
NO SIGNAL                 ▭
     NET CABLE TEST
   1                    X
   2                    X
   3                    X
   4                    X
   5                    X
   6                    X
```
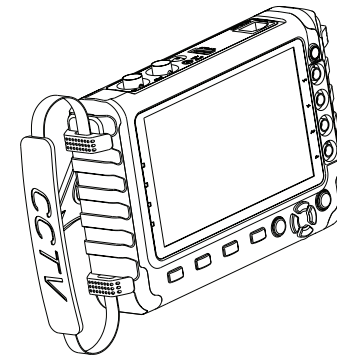Forth page menu

At first connect LAN cable with the HD coaxial tester and cable tester, Press ⊕ to the menu, press the key ⊙ change to the fourth page.

Model	HD coaxial tester
Video Test	
Signal mode	NTSC/PAL (Auto adapt)
Display	5.0 inch VGA TFT-LCD, 800（RGB）x 480 resolution
LCD adjustment	Brightness, Contrast, Saturation adjustable
Video IN/OUT	1 channel BNC Input & 1 channel BNC Output
VGA/HDMI Test（Optional）*	
VGA/HDMI Input	Support VGA/HDMI 1.0 video input, once connect VGA/HDMI video, please switch selector to select HDMI or VGA mode. The maximum resolution is 1920X1080
PTZ Controller	
Communication	Support RS485
PTZ Protocol	Compatible with protocols PELCO-D/P
Baud Rate	600,1200, 2400, 4800, 9600, 14400bps
Video Signal Generation	

Color bar generator	Support both PAL / NTSC format's standard color bar output (Red, Green, Blue, White, Black, Grey) and testing image output
UTP Cable Tester	
UTP cable test	Display UTP cable connection status, cable type and the sequence of wires as well as read the number of the test box.
DC12V 1A Power Output	
DC12V power output	Output DC12V1A power for camera
Audio Input Test	
Audio input test	1 channel audio signal input
TVI Test（Optional）*	
TVI video signal test	1 channel TVI input（BNC interface）, support 1MP,2MP,3MP,4MP,5MP.
AHD Test（Optional）*	
AHD video signal test	1 channel TVI input（BNC interface）, support 1MP,2MP,3MP,4MP,5MP.
CVI Test（Optional）*	
CVI video signal test	1 channel TVI input（BNC interface）, support 1MP,2MP,3MP,4MP.

Power Adapter	DC 5V（1.0A）
Battery	Built-in 18650 2600mA battery X 2
Rechargeable	After charging 3-4 hour, working time lasts 11 hours
Low Consumption	Energy saving , battery capacity indicator
Parameter	
Operation setting	OSD menu, select your desired language: English, Chinese, etc
General	
Working Temperature	-10℃ ~ +50℃
Working Humidity	30% ~ 90%
Dimension/ Weight	194mm x 112mm x 48mm / 540g

User Manual

CE FC

Coaxial HD Video Monitor Tester

1. General

The new HD coaxial tester is developed for the on-site installation and maintenance of HD coaxial camera, having TVI, AHD, CVI. It also provides many useful functions, such as video display, PTZ control, DC12V output power, audio test, image generator, VGA video signal input, HDMI1.0 signal input, RS485 data searching, cable testing, high precision digital multimeter, LED lamp etc.

Product Funtions

● Video signal testing

● Vedio monitor tester, High-resolution 5.0 inches 800 (RGB) x480 wide viewing angle display, Viewing angle larger, more intuitive and easy to display the camera image quality.

● PTZ controller

Video monitor tester built-in Pelco-D / P PTZ control protocol, etc. , through its own RS485 interface, the user can control the PTZ up, down, left, right rotation, and adjust one machine zoom, focus, aperture size.

● Image generator

Multi-format video OUT port image generator, sending a variety of standard (e.g. PAL, NTSC) color graphics section

● DC12V 1A output power

Power the camera with DC12V (1A) power output from the tester. It is helpful for demo and testing when the power supply is not available.

● Audio testing

Test the audio input from pickup devices. Connect the tester and pickup device with the audio cable.

● Enhanced network cable testing

By UTP CABLE TEST port on the meter, you can test the connection of network cable.

● VGA/HDMI input (Optional) *

Support VGA/HDMI 1.1 Compliant Digital input, once connect VGA/HDMI video, please switch selector to select HDMI or VGA mode.

The maximum resolution is 1920X1440

● TVI camera test (Optional) *

HD TVI video surveillance testing, support 1MP, 2MP, 3MP, 4MP, 5MP. When TVI signal input, the tester will display HD TVI camera image.

● AHD camera test (Optional) *

HD video surveillance testing, support 1MP, 2MP, 3MP, 4MP, 5MP. When AHD signal input, the tester will display the AHD camera image.

● CVI camera test (Optional) *

HD video surveillance testing, support 1MP, 2MP, 3MP, 4MP. When CVI signal input, the tester will display the CVI camera image.

● LED lamp

It is useful for the engineer to install and maintain security system at night. LED On/Off pressing button, easy to operate.
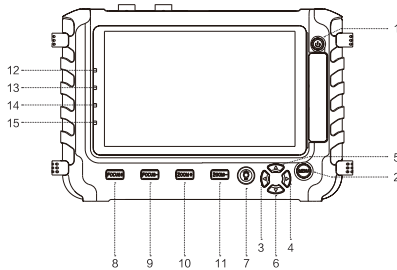
● The battery graphic display

The tester has advanced power control and protection circuit, low-power energy-saving, 4 to 5 hours on a single charge, can be used normally for 12 hours.

2、Product Accessories

• HD coaxial tester
• Adapter DC5V 1A（with USB cable）
• International Standard 18650 2600ma battery X 2
• BNC cable
• RS485 connector
• Multimeter test leads one pair of red and black (optional)
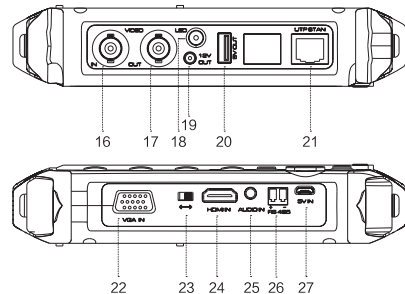• Power output conversion cable
• Audio cable
• Lanyard
• Tool bag
• Instruction Manual

3、Front Panel

1	⊚	Press more than 3 seconds, turn on or off the device
2	⊜	Menu key
3	◁	Leftward. Move menu item / Tilt the PTZ leftward.
4	▷	Rightward. Move menu item / Tilt the PTZ rightward.
5	△	Upward. Move menu item / Tilt the PTZ upward.
6	▽	Downward. Move menu item / Tilt the PTZ downward.
7	💡	LED lamp switch
8	FOCUS+	Far focus: Focus the image faraway / change the setting parameters
9	FOCUS-	Near focus: Focus the image nearby / change the setting parameters
10	ZOOM+	Zoom In / change the setting parameters
11	ZOOM-	Zoom Out / change the setting parameters / setup preset position
12	□	The power indicator
13	□	12V output indicator
14	□	The data-transmission indicator
15	□	5V charging indicator

16	⊚	Video signal input (BNC interface)
17	⊚	Video signal output (BNC interface)
18	⊚	LED lamp
19	⊙	Output DC12V 1A power, for provisional DC test supply
20	▯	Output DC5V 1A power, for provisional DC test supply
21	▢	Network cable interface test
22	▦	VGA input interface
23	⊟	VGA/HDMI switch
24	⊂⊃	HDMI input interface
25	○	Audio input test
26	⊔⊔	RS485 Interface, RS485 communication for the PTZ
27	⊂⊃	USB charge interface

4. Instrument connection

1. The camera or dome video output is connected to HD coaxial tester VIDEO IN, the image display on the tester

2. HD coaxial tester "VIDEO OUT" interface connect to the Video input of monitor and optical video transmitter and receiver, the image display on the tester and monitor

3. Connect the camera or the speed dome RS485 controller cable to the tester RS485 interface (Note positive and negative connection of the cable).

4. HD coaxial tester support VGA/HDMI 1.0 video input, the Tester can display hdmi video input automatically, but if connect VGA video input, please switch selector ⊟ to VGA mode, in VGA mode, can't display AHD, TVI, CVI, CVBS video input.