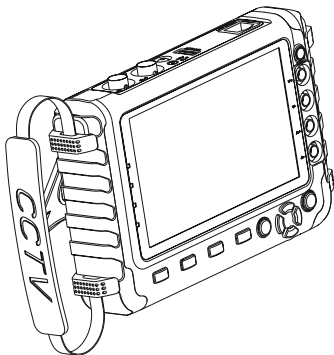


User Manual



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. 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 Functions

- Video signal testing

- Video 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. Support PAL/NTSC standard video signal.

- 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

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

● TVI camera test (Optional) *

HD TVI video surveillance testing, support 720p 25, 30, 50,60fps/ 1080p 25,30fps. When TVI signal input, the tester will display HD TVI camera image.

● AHD camera test (Optional) *

HD video surveillance testing, support AHD 2.0 version, 720p 25,30fps/ 1080p 25,30fps. When AHD signal input, the tester will display the AHD camera image.

● High precision digital multimeter (Optional) *

The tester built in high reliability digital multimeter with a stable performance, clear reading, can be used to measure DC voltage, AC voltage, DC current, AC current measurement accuracy, easy to use.

● 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

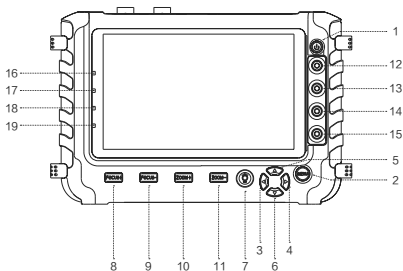
The tester has advanced power control and protection circuit, low-power energy-saving, 4 to 5 hours on a single charge, can be used normally for 12 hours.

2、Product Accessories
















- HD coaxial tester
- Adapter DC5V 1.5A (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

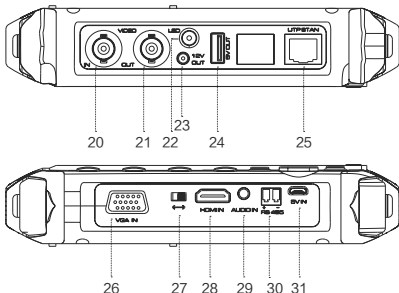
- Audio cable
- Lanyard
- Tool bag
- Instruction Manual








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		Far focus: Focus the image faraway / change the setting parameters
9		Near focus: Focus the image nearby / change the setting parameters
10		Zoom In / change the setting parameters
11		Zoom Out / change the setting parameters / setup preset position
12		380V MAX+
13		380V MAX-
14		5A MAX+
15		5A MAX-
16		The power indicator
17		12V output indicator
18		The data-transmission indicator
19		5V charging indicator









20		Video signal input (BNC interface)
21		Video signal output (BNC interface)
22		LED lamp
23		Output DC12V 1A power, for provisional DC test supply
24		Output DC5V 1A power, for provisional DC test supply
25		Network cable interface test
26		VGA input interface





27		VGA/HDMI switch
28		HDMI input interface
29		Audio input test
30		RS485 Interface, RS485 communication for the PTZ
31		USB charge interface

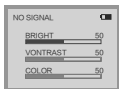
4、Operation

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

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

■ When turn it on, press the key  to enter the function menu, press     key to quickly switch to the desired function menu.

■ When turn it on, press the key  to enter the function menu, select different function, and press the key   to change the parameter value, press  to save setting and exit menu.



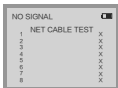
First page menu



Second page menu



Third page menu



Forth page menu

- High precision digital multimeter (Optional)

Press  key to enter the function menu, continuously press

    key to switch page, to select entering “digital multimeter” UI.

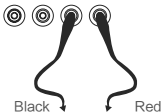
Can measure:

1. DC voltage
2. AC voltage
3. DC current
4. AC current

• The black multimeter pen must insert “V-/A-” port, the red multimeter pen must insert “V+/A+” port.



1. The maximum current measurement is 5A
2. The maximum voltage measurement is 380V



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	
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 720p 25 / 30 / 50 / 60fps, 1080p 25 / 30fps
AHD Test (Optional) *	
AHD video signal test	1 channel AHD input (BNC interface) , support AHD 2.0 version, 720p 25 / 30fps, 1080p 25 / 30fps
Digital Multimeter (Optional) *	
AC/DC Voltage	0-660V auto/manual range, the min resolution is 0.1mV
AC/DC current	660.0uA , 6.600mA, 66.00mA , 660.0mA, 10.00A
POWER	
Power Adapter	DC 5V (1.5A)
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