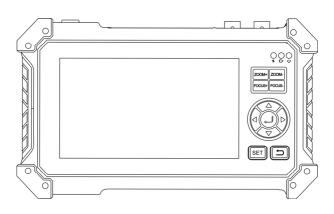


## HD CCTV tester User Manual



- Thank you for purchasing the HD CCTV tester. Please read the manual before using the HD CCTV tester and use properly.
- For using the HD CCTV tester safely, please first read the Safety Information carefully in the manual.
- The manual should be kept well in case of reference.
- Keep the S/N label for after-sale service within warranty period. Product without S/N label will be charged for repair service.
- If there is any question or problem while using the HD CCTV tester, or damages occurred on the product, please contact our technical Department.

### Content

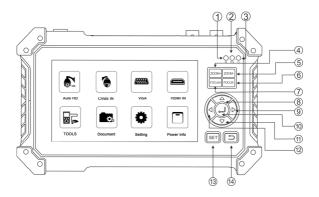
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## 1. Safety information

- The tester is intended to use in compliance with the local rules of the electrical usage and avoid to apply at the places which are inapplicable for the use of electrics such as hospital, gas station etc.
- To prevent the functional decline or failure, the product should not be sprinkled or damped.
- The exposed part of the tester should not be touched by the dust and liquid.
- During transportation and use, it is highly recommended to avoid the violent collision and vibration of the tester, lest damaging components and causing failure.
- Don't leave the tester alone while charging and recharging. If the battery is found severely hot, the tester should be powered off from the electric source at once. The tester should not be charged over 10 hours.
- Don't use the tester where the humidity is high. Once the tester is damp, power off immediately and move away other connected cables.
- ◆ The tester should not be used in the environment with the flammable gas.
- Do not disassemble the instrument since no component inside can be repaired by the user. If the disassembly is necessary indeed, please contact with the technician of our company.
- The instrument should not be used under the environment with strong electromagnetic interference.

- ◆ Don't touch the tester with wet hands or waterish things.
- Don't use the detergent to clean and the dry cloth is suggested to use. If the dirt is not easy to remove, the soft cloth with water or neutral detergent can be used. But the cloth should be tweaked sufficiently.

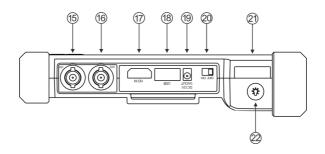
### 2. Function interface



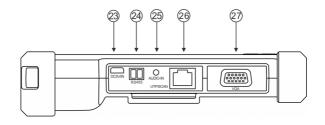
- RS485 data transmission indicator: the light is red while the data is being transmitted
- ② Charging indicator: the light is red while the battery is being charged.

  The light will automatically turn off if charge completed

③ Power indicator: the light is green while the tester is turned on
4 Zoom in the image
⑤ Zoom out the image
(6) Focus the image faraway
7 Focus the image nearby
(8) Upward, select function, set parameter and tilt the PTZ upward
(9) Rightward, select function, set parameter and pan the PTZ rightward
O Confirm button, enter functions and save settings
① Downward, select function, set parameter and tilt the PTZ downward
(2) Leftward, select function, set parameter and pan the PTZ leftward
(3) Setting button, enter the function parameter settings
Return/Close: Return and cancel the operation



- (5) CVBS/AHD/TVI/CVI input (BNC interface)
- (BNC interface) (Optional)
- (7) HDMI input
- (8) DC 5V 1A power output, USB power bank
- O DC 12V 1A power output, for provisional DC power supply
- ON/OFF power switch
- ② LED light
- 2 Light switch



- 23 DC 5V 2A charging interface
- RS485 Interface: RS485 communication for the PTZ
- 25 Audio input
- ② UTP port, UTP cable tester port/ Cable tracer port (\*Optional)
- 27 VGA input

## 3. Operation

#### 3.1 Installing the Battery

The tester has built-in lithium ion rechargeable battery. The battery cable inside battery cabin should be disconnected for safety during transportation! Prior to the use of the instrument, please take out the battery insulation paper. Sliding the ON/OFF power switch can power on or off the tester.

▲ Notice: please use 5V 2A adapter to charge when charging. Too high voltage/current will burn the instrument!

When the battery icon is full or the charge indicator turns off automatically, indicate the battery charging is completed

#### 3.2 General

The 5 inch TFT-LCD screen HD CCTV Tester is designed for maintenance and installation of CVBS, TVI, CVI, AHD cameras, as well as HDMI input, VGA input, Audio input, PTZ control, PING test, LED Flashlight, DC 12V 1A power output, etc. Its portability, user-friendly design and many other functions make the CCTV tester an essential tool for all installers or technicians.

### 4. Feature

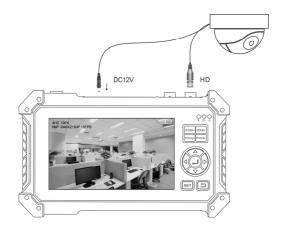
- 5 inch TFT-LCD screen, 800\*480 resolutions
- RS485 PTZ control, baud 600-115200bps, compatible with more than 30 protocols such as PELCO-D/P, Samsung, Panasonic, Lilin, Yaan, etc
- 8MP TVI test, 3840 x 2160P 12.5/15 FPS, coaxial PTZ control & call OSD menu
- 8MP AHD test, 3840x2160P 15 FPS, coaxial PTZ & call OSD menu
- 8MP CVI test, 3840 x 2160P 12.5/15FPS, coaxial PTZ & call OSD menu
- 8MP EX-SDI test, 3840 x 2160P 25/30FPS, coaxial PTZ & call OSD menu (\*Optional)
- HD-SDI test, 1920 x 1080P 25/30/50/60 FPS, coaxial PTZ & call OSD

- menu (\*Optional)
- 3G-SDI test, 1920 x 1080P 50/60 FPS, coaxial PTZ & call OSD menu (\*Optional)
- CVBS camera test, PTZ controller
- DC12V/1A power output, camera can be powered from DC 12 Voltage.
- DC 5V 1A power output, support reading USB disk
- Audio in, support record and save the audio.
- Improvement cable tester, UTP cable, telephone cable etc order and connectivity test, can save testing report, if special number, need customized. Can detect the near-end, mid-end and far-end fault point of the network cable crystal head.
- Digital Cable tracer, search BNC cable, network cable and telephone cable from the mess cables. Cable search and UTP cable can test at the same time(\*Optional)
- $\bullet$  3.7 V /5200mAh Li-ion Battery, after 4.5 hours charging, working time lasts 6.5 hours

#### 5. Feature introduction

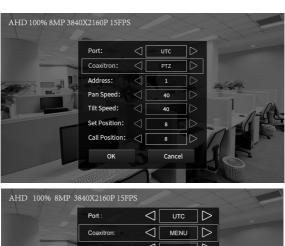
#### 5.1 TVI/CVI/AHD/CVBS camera test

Connect camera to "AHD/CVI/TVI" port, enter "Auto HD" app. Can auto recognize AHD/CVI/TVI/CVBS signal and display the image, as well as display the camera type and frame.



### 5.2 Coaxial PTZ control

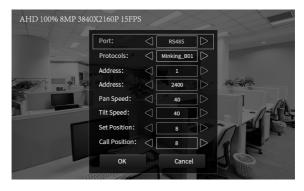
When enter "PTZ" option, press key switch to "menu setting", and switch to "key (open)" or "OK" option, press key to call out the camera main menu.





#### 5.3 RS485 control

Support RS485 control, baud 600-115200bps, compatible with more than 30 protocols such as PELCO-D/P, Samsung, Panasonic, Lilin, Yaan, etc. Can set PTZ pan speed and Tilt speed, call set preset position. In the Auto HD/CVBS IN interface, press "SET", can set RS485 protocol, Port, Baud, Address, PTZ, etc.



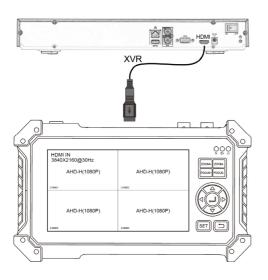
#### 5.4 EX-SDI/HD-SDI camera test

Connect camera to "SDI" port, click "Auto HD- SDI" to enter SDI interface, can display the camera image, and will display the resolution and frame rate in top-left corner, support up to 4K/8MP 3840x2160p 25/30fps EX-SDI camera test, coaxial PTZ, call OSD menu and RS485 control.

## 6. XVR display

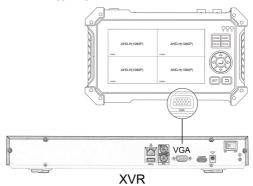
### 6.1 HDMI input

Connect one end of HDMI cable to Tester's "HD IN" port, other end connect to XVR's "HDMI" port, enter "HDMI input" app, can receive the real-time audio and video signal from XVR, and will display the resolution and frame rate in top-left corner, support up to 4K/3840x2160p30fps resolution.



### 6.2 VGA input

Connect one end of VGA cable to Tester's "VGA" port, other end connect to XVR's "VGA" port, enter "VGA input" app, can receive the real-time video signal from XVR, support up to 1920x1200 resolution.



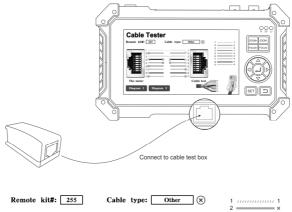
### 7. Cable Tester

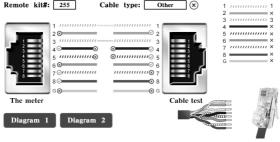
#### 7.1 UTP Cable Tester

Connect one end of LAN cable or telephone cable to Tester's UTP/SCAN port, other end connect to the UTP port of Cable tester or cable tracer (\*optional).

Cable tester can test cable sequence, continuity and cable type, can detect

near / medium / far end fault of network cable crystal head, display the number of the cable tracer (Remote default No.255).





Visual judgment of network cable availability:

- All sequence of cable is correct, generally corresponds to Gigabit straight/cross network cables.
- Cable sequence is wrong, but the cable is still available, generally corresponds to 100M straight-through/cross network cable.
- All sequence of cable is wrong, not available.

#### Meter-end/cable tester-end fault location:

Tester-end/cable tester-end display "x", it means the crystal head of the network cable or within 1 meter from the crystal head is faulty.

The middle part of sequence display "x", it means the crystal head at the end of Tester/Cable tester is normal, and there is a breakpoint 1 meter away from the crystal head.

The middle part of sequence is not communicated and not display "x", it means the crystal head at the end of Tester / Cable tester is faulty, and the middle of the cable is normal.

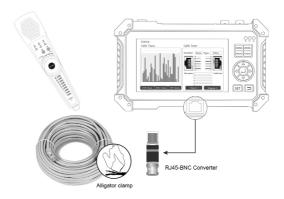
Tester-end can perform crystal head fault detection even when the remote end is not connected to the cable tester's UTP interface.

#### 7.2 Digital cable tracer (Optional)

Press key button, to enter "Cable test" and select "Cable tracer" app.

Connect UTP cable or telephone cable to tester bottom port "UTP/SCAN",
or use adapters and cables to connect other cables, such as BNC cable. Or
use BNC adapters and alligator clip cable to connect BNC cable etc.

**Note:** if use BNC adapters and alligator clip cable to connect BNC cable etc. Please switch to "BNC mode", if connect shielded cable, please select "STP mode".



Locate cables: Arrow keys to switch mode, "UTP mode" to looking for unshielded network or telephone cables, "BNC mode" for finding BNC cable after connecting adapter. "STP mode" is used to find the shielded network cable. Turn on the cable tracer. The round knob, if clockwise rotation the knob to increase sensitivity, and turn it counter clockwise to decrease the sensitivity.

**Silent mode:** Press the key "MUTE" for 2 seconds, and will make a sound "Di" to start.

In silent mode, locate cable according to the indicator signal of 1-8. Press the "MUTE" key again to exit silent mode.

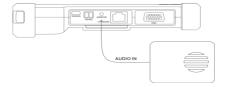
Cable sequence test: When search cable, also can test UTP cable sequence. Through the indicator to check cable sequence whether is correct. If the indicator is "ON", it means the cable sequence is correct.

## 8. U disk reading

Insert U disk to Tester's "USB" port, enter "Media player" app, can read the image, music, video and documents. And also support DC 5V 1A power output, as power bank.

### 9. Audio test

Connect pickups or other Audio equipment to tester's bottom port "Audio in" You can test the audio input from audio pickup devices by connecting the audio pickup device to the CCTV tester with the supplied audio cable.



## 10. Setting

**Language:** Select your desired language: English, Korean, Russian, Italian, Polish, Spanish, French, Japanese, Deutsch, Turkish, Portuguese, Czech, Serbian, etc.

 ${\bf Brightness/Contrast/Color:}\ {\bf Set\ the\ image\ brightness\ of\ Auto\ HD,\ CVBS,}$ 

VGA and HDMI input

Backlight: Set the desired brightness of the cctv tester

Volume: Set volume level

**PTZ** address scan: You can toggle the PTZ Address scan off or on before entering the "PTZ controller" app. This needs to be turned on in order to use the PTZ Scan feature of the PTZ app.

**Power on status:** set the instrument to power on and enter the program directly. It can set the main screen / Auto HD / SDI / CVBS in / VGA / HDMI in, etc

## 11. Packing kits

- 1) Tester
- 2) Network cable tester
- 3) Adaptor DC5V 2A
- 4) RJ45-BNC converter
- 5) Li-ion battery (3.7V DC 5200mAh)
- 6) Tool bag / DC Power cable/BNC cable/ RS485 cable/ Audio cable
- 7) Safety cord/Wrist belt
- 8) Manual

# 12. Specifications

Model	HD CCTV tester
Display	New 5 inch TFT-LCD screen, 800*480 resolution
CVI video signal test	8MP CVI camera test, 3840 x 2160P 12.5/15 FPS, UTC control / call OSD menu
TVI video signal test	TVI camera test, 3840 x 2160P 12.5/15 FPS, UTC control/ call OSD menu
AHD video signal test	8MP AHD camera test, 3840 x 2160P 15FPS, UTC control / call OSD menu
SDI video signal test(* Optional)	8MP EX-SDI, HD-SDI, 3G-SDI, UTC control / call OSD menu*
Auto HD	Auto HD app, auto recognize HD coax camera type and resolution, support coaxial PTZ & call OSD menu
HDMI input	1 channel HDMI input, support 4K 30FPS. The resolution as follow:4K_3840*2160  /2K_2560*1440P/1920×1080p /1920×1080i/ 720×480p /720×576p /1280×720p/1024×768p/ 1280×1024p /1280×900p /1440×900p, etc
VGA input	1 channel VGA input, support 1920 x 1200P 60FPS. The resolution as follow: 1920 x 1200P /1920×1080P/1400×1050P/1600x 1200P /1600x 900P/1440x900P/1360x768P/1280x1024/1280x9 60/1280x800/1280x768, etc
CVBS video signal	1 channel BNC input, NTSC/PAL (Auto adapt),

test	PTZ control, RS485 control, Baud 600- 115200bps, compatible with more than 30 protocols such as PELCO-D/P, Samsung, Panasonic etc
Digital Cable tracer (* Optional)	Search BNC cable, network cable and telephone cable from the mess cables. Cable search and UTP cable can test at the same time *
UTP cable test	Test UTP cable connection status and display on the screen. Detect the near-end, mid-end and far- end fault point of the network cable crystal head.
DC 12V/1A power output	DC12V/1A power output, supply temporarily power for the camera
5V 1A power output	5V 1A power output, support reading USB disk
Audio test	1 channel audio signal input, test whether sound normal
Power	
Battery	Built-in 3.7V Li-ion battery, 5200mAh
Rechargeable	After charging 4 hours, the normal working time 6.5 hours (Note: when in CVBS IN function and the screen is 60% brightness, the working time is 9 hours)
Parameters	
Operation setting	OSD menu, select your desired language: English, Chinese, Korean, Russian, Italian, French, Polish, Spanish, Japanese, Deutsch, Turkish, Portuguese, Czech etc

General	
Working Temperature	-10°C ∼ +50°C
Working Humidity	30%-90%
Dimension/Weight	184mm x 110mm x 41mm / 0.4Kg

Note: \* is optional. The above data are for reference only and are subject to change without prior notice.



# INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT.

When this product has reached the end of its life it must be treated as Waste Electrical & Electronic Equipment (WEEE). Any WEEE marked products must not be mixed with general household waste, but kept separate for the treatment, recovery and recycling of the materials used. Waste batteries can be returned to any waste battery recycling point which are provided by most battery retailers. Contact your local authority for details of recycling schemes in your area.

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