CCTV-Test

info

Safety Information

1.1 Precaution before using the tester

A. Make sure to read the user's manual before using the product.

B. Make sure to check the input and output range of voltage or current at every input and output port before connecting, so that the Tester cannot be overloaded/damaged.

C. The following operational environment should be maintained constantly:

- Temperature: -30℃--- 70℃
- Relative humidity: 30% ~ 90%
- Recharging voltage: 9V ---12V

1.2 Precautions when using the tester

A. Do not use the tester in damp humidity or leaking gas environments.

B. Do not touch the tester with wet hands.

C. Be mindful not to shock or shake the tester while in use to avoid damage.

D. Avoid the places of strong magnetism or electric wave, which could cause incorrect measuring.

E. Be careful not to expose the ports or joints to dirt or liquid.

F. Do not disassemble the tester.

1.3 Precautions for battery charging and using

A. Use only original chargeable battery with the tester, when charge the batteries, please use the original power adapter.

B. Make sure not to disorient the polarization of batteries.

C. Do not short-circuit or disassemble batteries.

Introduction

2.1 Features and function

A. Video test

The video signal and the image from Camera can be tested.

B. PTZ controlling

Outputs basic operating commands to test PTZ products, functions include pan/tilt, zoom in/out preset setting and operation, speed adjustment etc; support multi-protocol and baud rate, communication via RS-232, RS-422 simplex and RS-485 port.

RS485 protocol include: Pelco-D / P, Samsung, Panasonic & Molynx.

Additional Protocols may be included in future versions.

Baud rate include: 2400, 4800, 9600, 19200.

C. UTP cable test

The wiring condition (disconnected, short of UTP cable) can be tested and show in the screen clearly.

D. Video signal generating

It can output Green, White, Black and Blue screen to allow technician to inspect video monitor or DVR. Generates PAL TV Signals only.

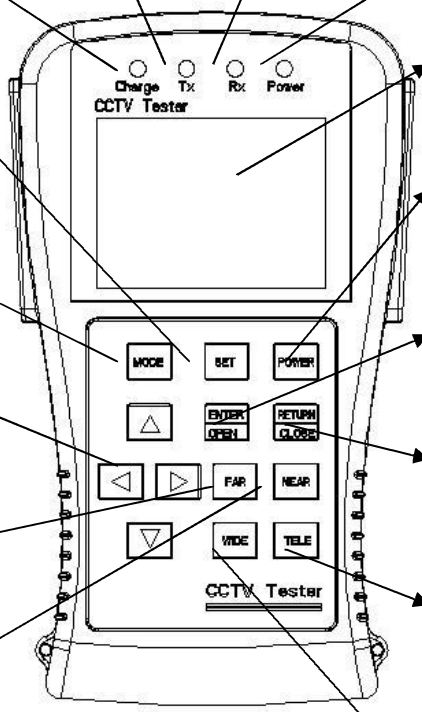
E. RS485 data test

It can decode RS-485 data sent from controlling device, display the hexadecimal data content for engineer to analyze.

2.2 Standard items

Item	Quantity
CCTV tester	1
3.7V battery	2
UTP cable tester	1
Power adapter	1
RS485 connector	1
BNC connect cable	1
User's manual	

2.3 Function of each part



Data Transmitting LED:
It lights when transmitting data.

Data Receiving LED:
It lights when receiving data.

Charge Indicating LED:
It is on when being charged.
Glitters when charge finish.

Power LED:
It is on when the tester is on.

2.5 inch LCD Screen:
960x240 resolution.

Setup:
To setup the function in the menu.

Power:
Turn on/off the tester.

Mode:
Mode select (video, PTZ Control, UTP Test, video generating).

Enter & Open:
To confirm the setup & open the iris.

Shift setup buttons:
Shifts up, down, right, left for PTZ & for menus & others.

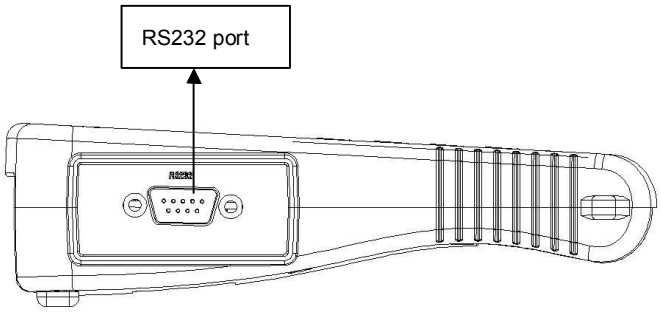
Return & Close:
To return to menu & close the iris.

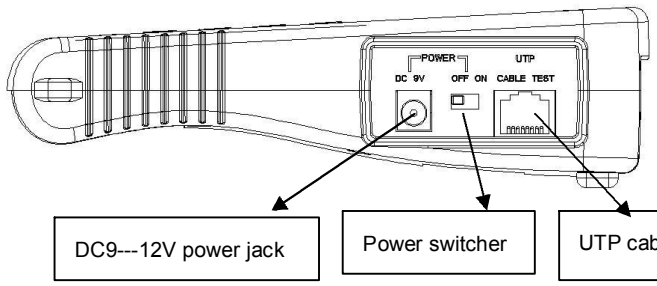
Far:
To adjust PTZ focus to far direction.

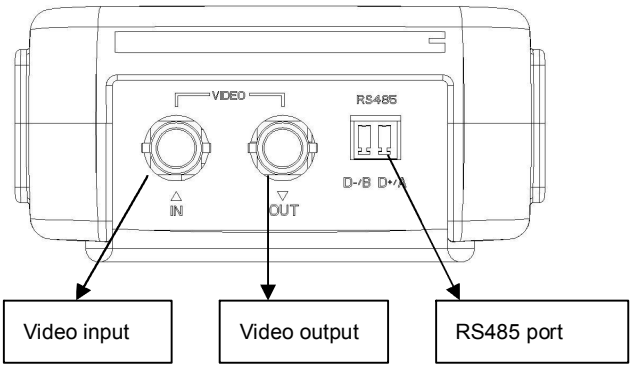
Tele:
To zoom in the PTZ lens & send the generated video signal out to the display device.

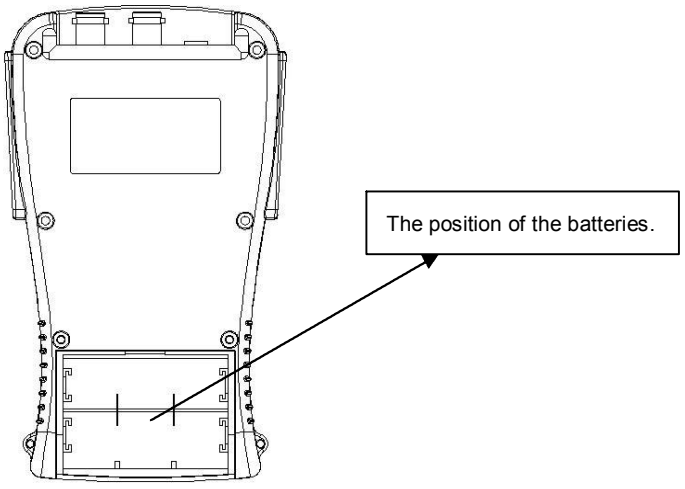
Near:
To adjust PTZ focus to near direction.

Wide:
To zoom out the PTZ lens & recalls the generated video signal.


RS232 port


POWER
DC 9V
OFF ON
UTP
CABLE TEST
DC9---12V power jack
Power switcher
UTP cable jack


VIDEO
IN
OUT
RS485
D-/B D+/A
Video input
Video output
RS485 port

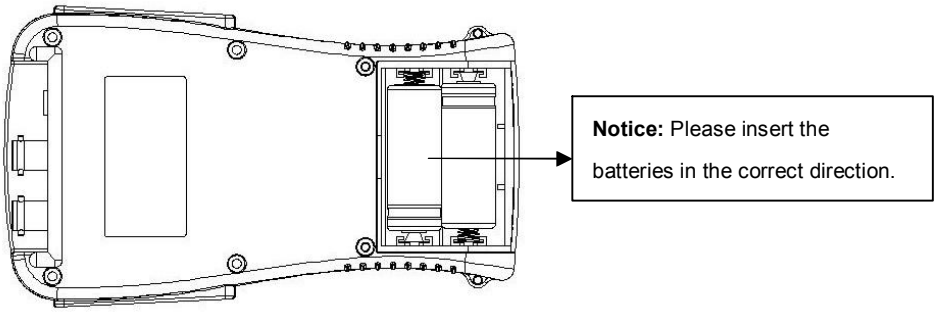

The position of the batteries.

2.4 Specification

Model	CCTC-Test
Video Test	
Signal Mode	NTSC/PAL input
Display	2.5 inch LCD screen, 960 x 240 resolution
Video Input	1 channel BNC
Video Output	1 channel BNC
PTZ Controlling	
Communication	RS232, RS422 simplex and RS485
Protocol	Pelco D, P, Samsung, Panasonic
Baud Rate	2400, 4800, 9600, 19200
Other Function	
Signal Generating	Output 1 channel PAL video signal for testing monitor
UTP Cable Test	Test UTP cable connection state and display in the screen
RS485 Data Test	Test the RS485 data sent from controlling device
Operation	English OSD menu
Power	
Power Adapter	DC9V---12V
Battery	2 pcs 18490 standard batteries 3.7V,capacity 1400mAh
Rechargeable	approximately 5 hour recharge & operation time
Low Consumption	Sleeping mode, display battery power state
Other Parameters	
Work Temperature	-30°C---+70°C
Work Humidity	30%-90%
Dimension	170mm x 99mm x 48mm

3，Operation Introduction

3.1 Power and battery



A. The power slide switch is located at the side of the tester. Turn the power slide switch on to power on the tester, to press the **Power** more than 3 seconds to make it turn into sleeping mode.

B. Press the **Power** more than 3 seconds to turn on the tester after it turning to sleeping mode.

C. Press the **Power** less than 1 second to shut off the OSD menu.

D. Turn the power slide switch off to power off the tester.

E. The batteries should be plugged in over 5 hours for full charge, when charged the **Charge Indicating LED** will on.

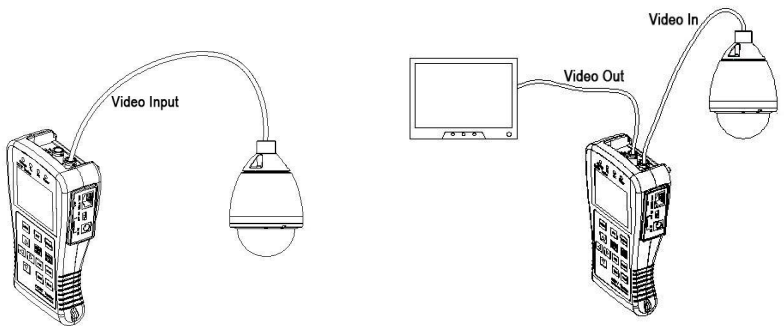
F. After full charging, the **Charge Indicating LED** light will glitter and the charging work can stop automatically.

G. The charged batteries can operate for 5 hours or more.

H. When the battery indicator in system information menu shows 25 (the status number includes 100, 90, 75, 50, 25, 5), please recharge it for use.

I. The tester can be used when it is being charged.

3.2 Video test

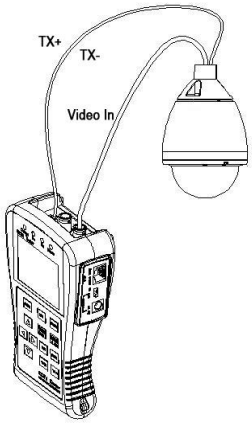


A. Connect the output terminal of video output system to the video input BNC of tester, turn on the tester, the video can be display on the screen.

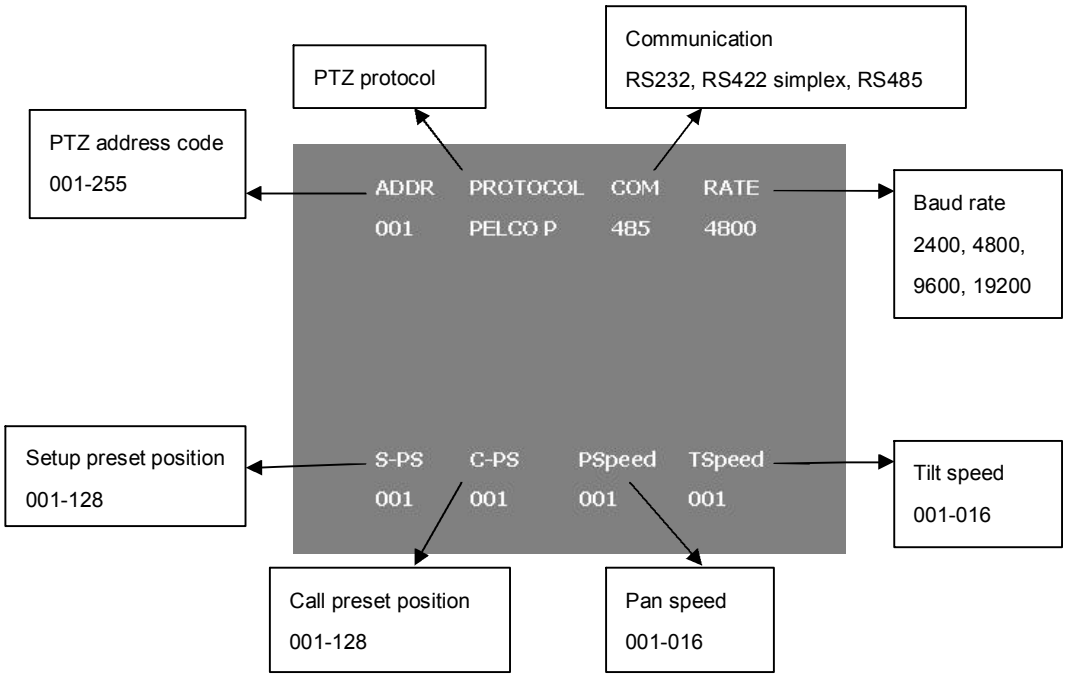
B. Connect the video output BNC of tester to the video input of other display device, it can display the video signal generated by the tester or looped by tester.

3.3 PTZ test

A. Connection



- Connect the tester with the PTZ camera as the picture shows.
- When the tester is on, it will show the PTZ test menu as follows:



B. Operation setup

- Press **Set** to start the setup operation and switch between the 1st line and the 2nd

line in menu.

- Press **Left** and **Right** to switch the optional item in the same line.
- Press **Up** and **Down** to change and select the parameter in each optional item.
- Press **Enter** to confirm the setup operation.
- Press **Return** to finish the setup operation and back to menu.

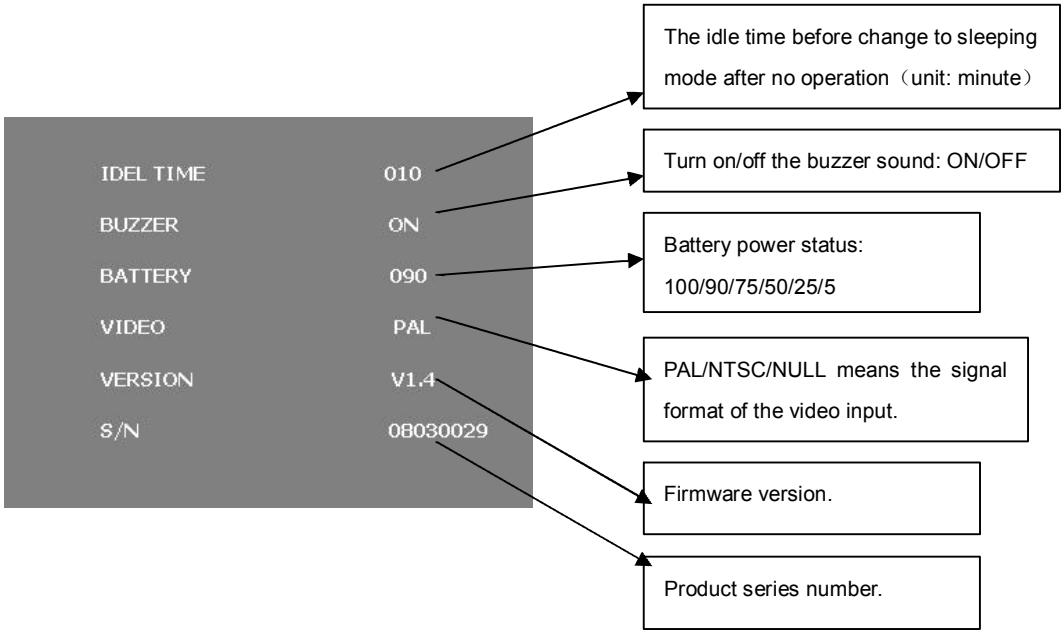
C. PTZ controlling

When connect to the PTZ camera, the video can be displayed in the screen, after setup the protocol, baud rate and the address correctly, user can control the PTZ camera in the below method:

- Press **Up/Down/Left/Right** to pan tilt to control the camera.
- Press **Open/Close** to control the iris.
- Press **Far/Near** to adjust the focus manually.
- Press **Wide/Tele** to zoom in/out the camera lens.

3.4 System information menu

A. Press **Mode** to switch to the system information menu as follows:



B. Press **Set** to start the setup operation.

C. Press **Up/Down** to select the optional items (just available for IDLE TIME and BUZZER).

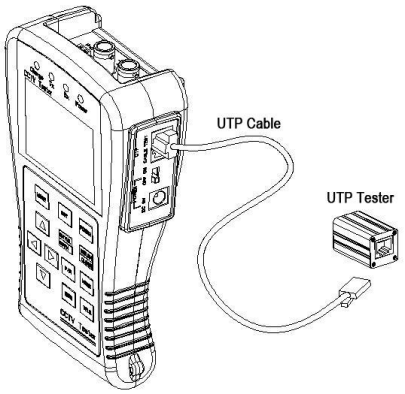
D. Press **Left/Right** to change the optional information.

E. Press **Enter** to confirm the setup operation.

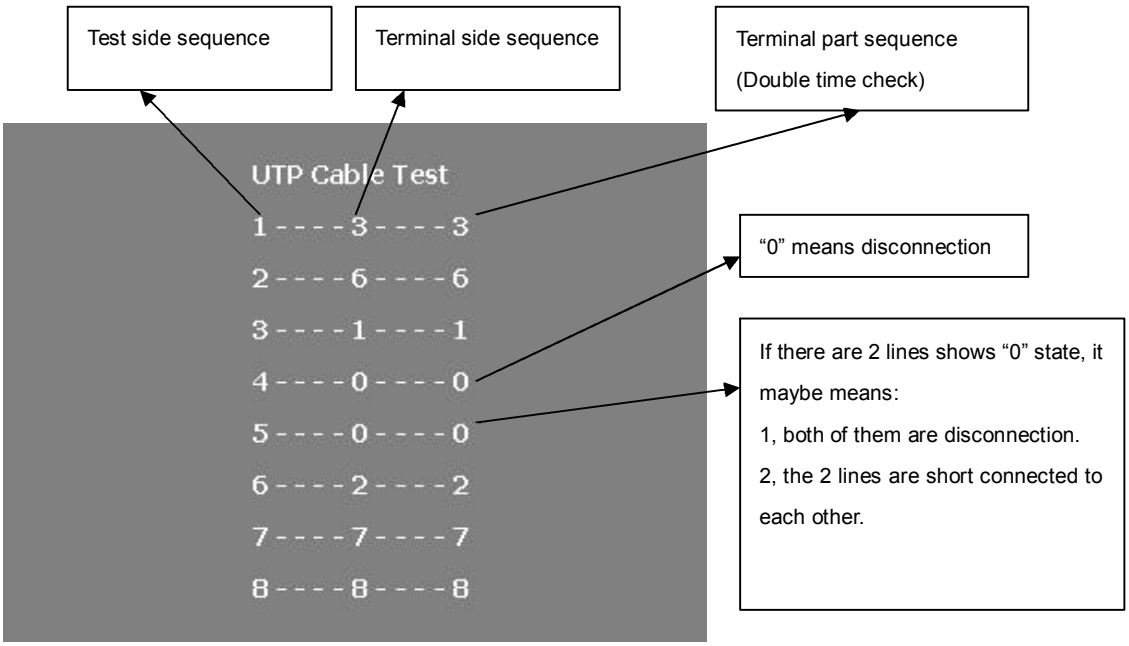
F. Press **Return** to finish the setup operation and back to menu.

3.5 UTP cable test

A. Connect the tester to the UTP cable tester as the picture shows:



B. Press **Mode** to switch to video UTP cable test menu.

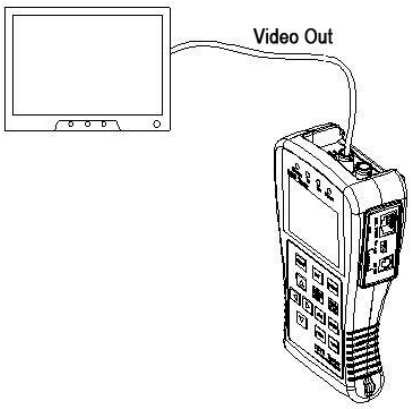


C. Press **Set** to start the test, UTP cable information will be displayed in the screen.

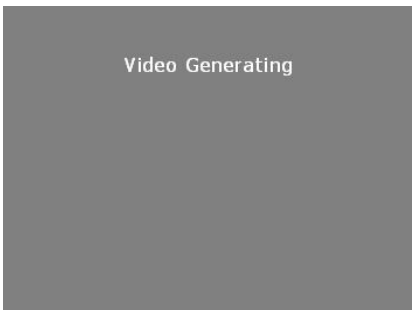
D. User can estimate the UTP cable connection situation from the information.

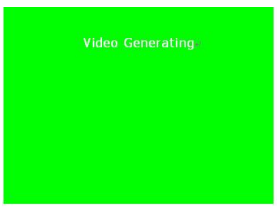
3.6 Video generating

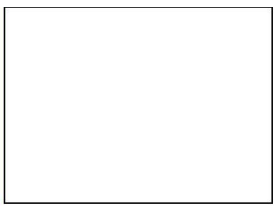
A. Connect the tester to the displayer device as the picture shows:

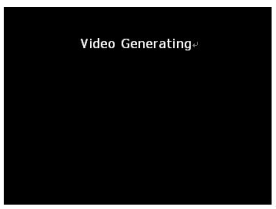


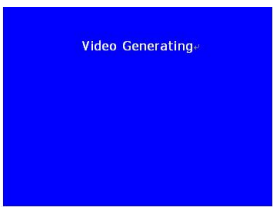
B. Press **Mode** to switch to video generating menu as follows:











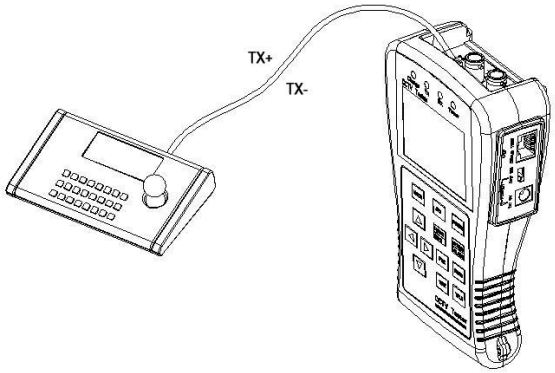
C. Operation setup

- Press the **Mode** to switch to the video generating mode 'PAL'
- Press **Set** to switch the video generating signal: Green, White, Black and Blue.
- Press **Tele** to send the generated video signal to the display device.
- Press **Wide** to recall the generated video signal.
- Press **Return** to finish the video generating operation.

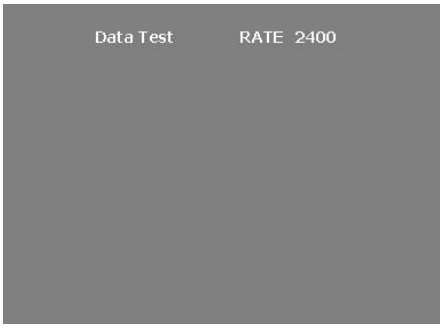
(Notice: If didn't press **Return** to finish the video generating operation mode, the Tester will couldn't be switch to other function mode**.)**

3.7 RS485 data test

A. Connect the tester to the controlling device as the picture shows:



B. Press **Mode** to switch to RS485 data test menu as follows:



C. Press **Set** to start the setup of baud rate.

D. Press **Up/Down** to select the tester's baud rate, make it same with the controlling device's. baud rate in using.

E. Make the controlling device transfer the RS485 data to the tester, the hexadecimal signal data will displayed in the screen as follows, engineer can analyze the data to know if the controlling device work with the correct protocol.