

WANLUTECH MT-8000

WANLUTECH MT-8000 OTDR CCTV Tester User Manual

Model: MT-8000

1. INTRODUCTION

The WANLUTECH MT-8000 is a versatile, multi-functional testing device designed for fiber optic and CCTV surveillance system installations and maintenance. It integrates various testing capabilities including Optical Time Domain Reflectometer (OTDR), Optical Power Meter (OPM), Visual Fault Locator (VFL), Light Source (LS), Optical Loss Test (OLS), CCTV camera testing (IP, AHD, CVI, TVI, CVBS), cable testing (RJ45 TDR, length, tracer), network tools, Digital Multimeter (DMM), Power over Ethernet (PoE) functions, and WiFi analysis. This manual provides detailed instructions for the safe and effective use of the MT-8000 tester.



Figure 1.1: WANLUTECH MT-8000 OTDR CCTV Tester and included accessories.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using the device to prevent injury or damage. Keep this manual for future reference.

- **Battery Safety:** Ensure the battery is correctly installed. Remove the paper piece isolating the battery before first use.
- **Optical Safety:** Do not look directly into the optical output ports (VFL, LS) as visible or invisible laser radiation can cause eye damage.
- **Electrical Safety:** Use only the provided charger and accessories. Avoid exposing the device to moisture or extreme temperatures.
- **Cleaning:** Use alcohol cotton to clean fiber connectors to ensure accurate test results.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- OTDR MT-8000 Main Unit
- Digital Cable Tracer
- Tool Bag
- Lithium Battery (pre-installed)
- Accessories Box
- Safety Cord
- Audio Test Cable
- Charger
- RS485 Control Cable
- BNC Cable
- Fiber Test Head
- Power Output Cable
- Digital Multi-meter Pen

			
MT-8000	Packing box	Tool bag	Lithium battery
			
Accessories box	Safety cord	Audio test cable	Charger
			
Rs485 Control cable	BNC cable	Fiber test head	Power output cable
			
Cable tracer	Digital Multi-meter pen		

Figure 3.1: Contents of the MT-8000 package.

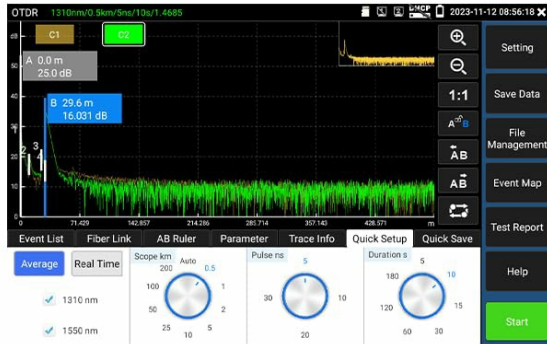
4. PRODUCT OVERVIEW

The MT-8000 features an 8-inch retina touchscreen display and a robust design for field use. Familiarize yourself with the various ports and controls.

4.1 Front and Side View

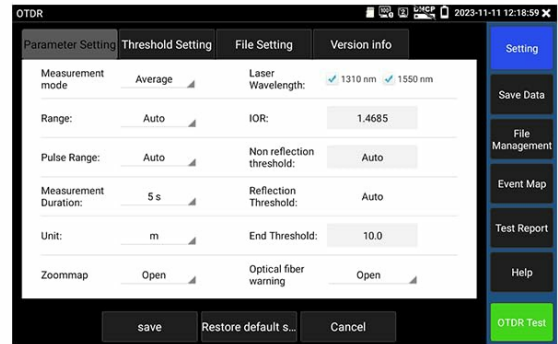
Quick Setup

Quickly set wavelength, distance range, pulse width and measurement duration;



Parameters Set mode

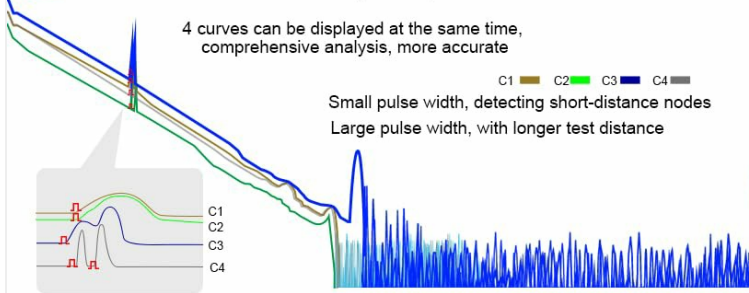
Professional technicians can set the wavelength, distance range, pulse width, measurement mode, IOR, non-reflection threshold, end threshold and other parameters before testing, which will get more accurate curve results



Multi-track analysis, more accurate

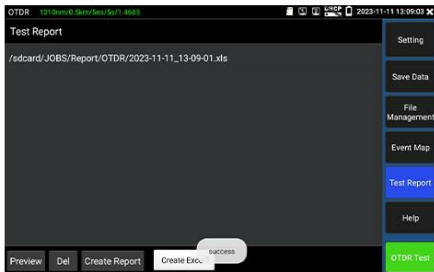
4 curves can be displayed at the same time, comprehensive analysis, more accurate

Small pulse width, detecting short-distance nodes
Large pulse width, with longer test distance



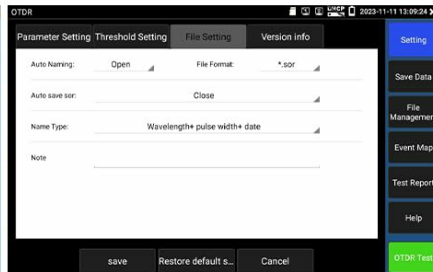
Test Report

Test Report: Save one or more curve trajectories and the list of events, parameters, fibre chains and rulers corresponding to the curves. Test reports are available in EXCEL and FDF formats.



File setting

File setting: Enable or disable file automatic naming, select the file format (otdr or sor) and file name type



File management

File Management: Open the selected the curve file, 4 curve files can be simultaneously selected

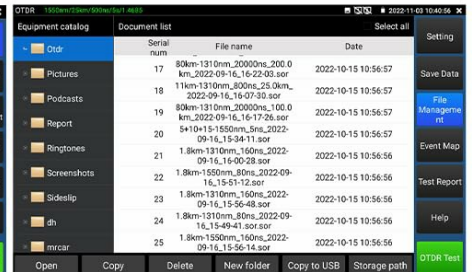
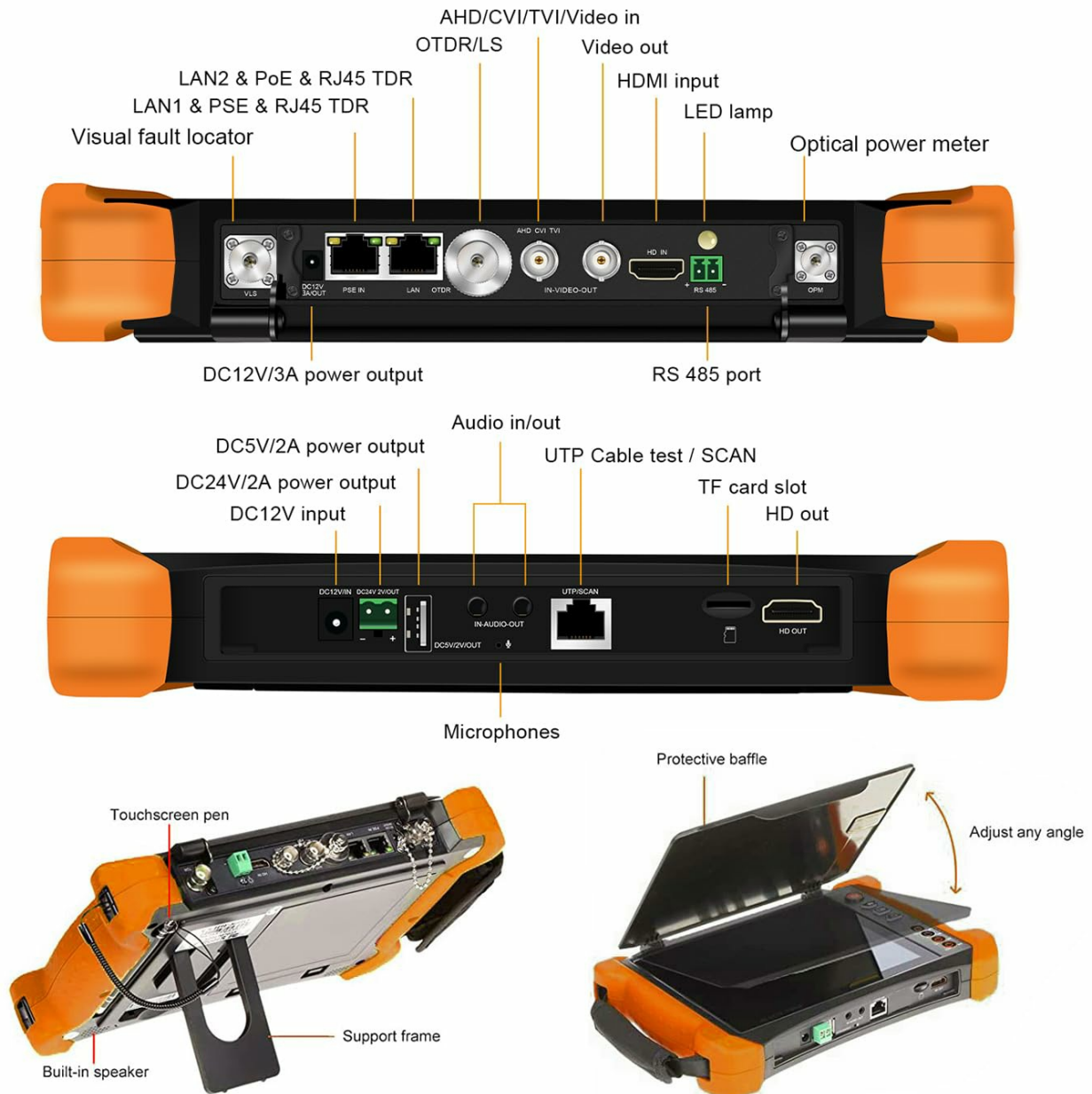


Figure 4.1: Side view highlighting the touchscreen pen, built-in speaker, and adjustable support frame.

4.2 Rear Panel Connections



Before using the tester, open the battery cover and remove the paper piece!!

Figure 4.2: Rear panel with labeled ports including AHD/CVI/TVI/Video in, HDMI input, LAN ports, PoE, Visual Fault Locator, Optical Power Meter, DC power outputs, Audio in/out, RS485 port, TF card slot, and HD out.

5. INITIAL SETUP

Before using the tester for the first time, perform the following steps:

1. **Battery Activation:** Open the battery cover and remove the paper piece isolating the battery. This ensures proper power connection.
2. **Charging:** Connect the provided charger to the device and a power outlet. Allow the device to fully charge before initial use.
3. **Power On:** Press and hold the power button until the device powers on.

6. OPERATING INSTRUCTIONS

The MT-8000 offers a wide range of testing functionalities. This section details how to use each primary function.

6.1 OTDR (Optical Time Domain Reflectometer)

The OTDR function is used for testing fiber optic cables, identifying faults, and measuring length and loss.

6.1.1 Quick Setup and Parameters Set

The device offers two modes for OTDR testing: Quick Setup for rapid configuration and Parameters Set for advanced control.

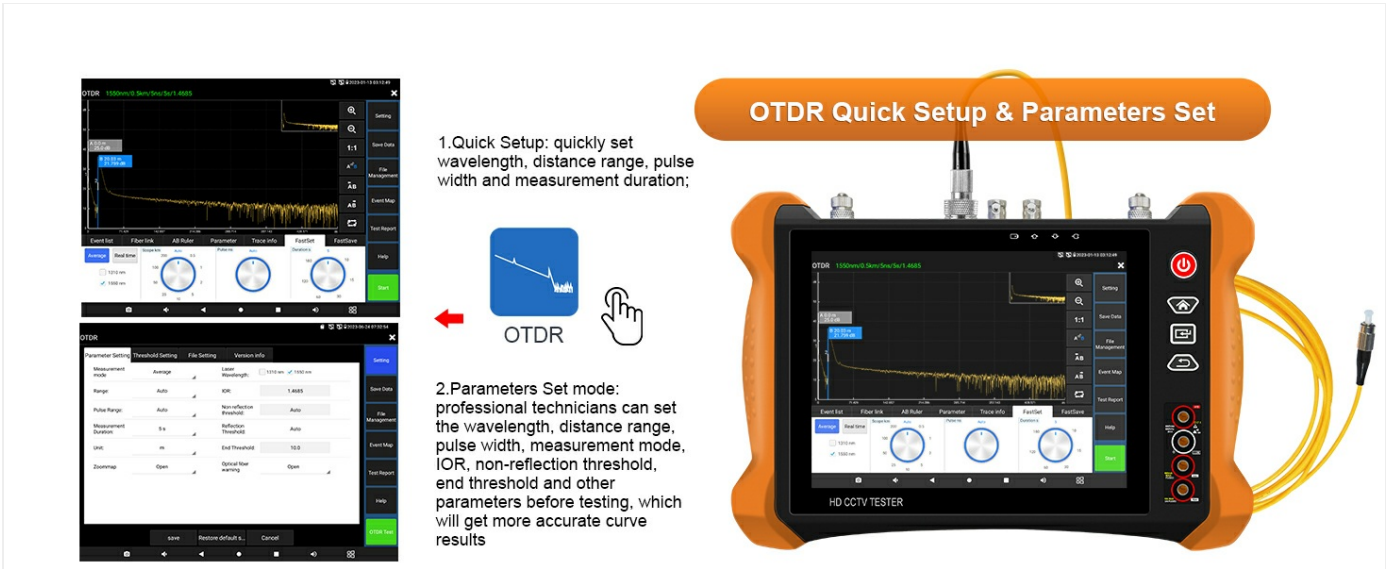


Figure 6.1.1: OTDR Quick Setup and Parameters Set interfaces.

- **Quick Setup:** Allows quick setting of wavelength, distance range, pulse width, and measurement duration.
- **Parameters Set:** For professional technicians, this mode allows detailed configuration of wavelength, distance range, pulse width, measurement mode, IOR, non-reflection threshold, end threshold, and other parameters for more accurate curve results.

6.1.2 Multi-track Analysis

The MT-8000 can display up to four OTDR curves simultaneously for comprehensive analysis, aiding in the detection of short-distance nodes with small pulse widths and longer distances with large pulse widths.

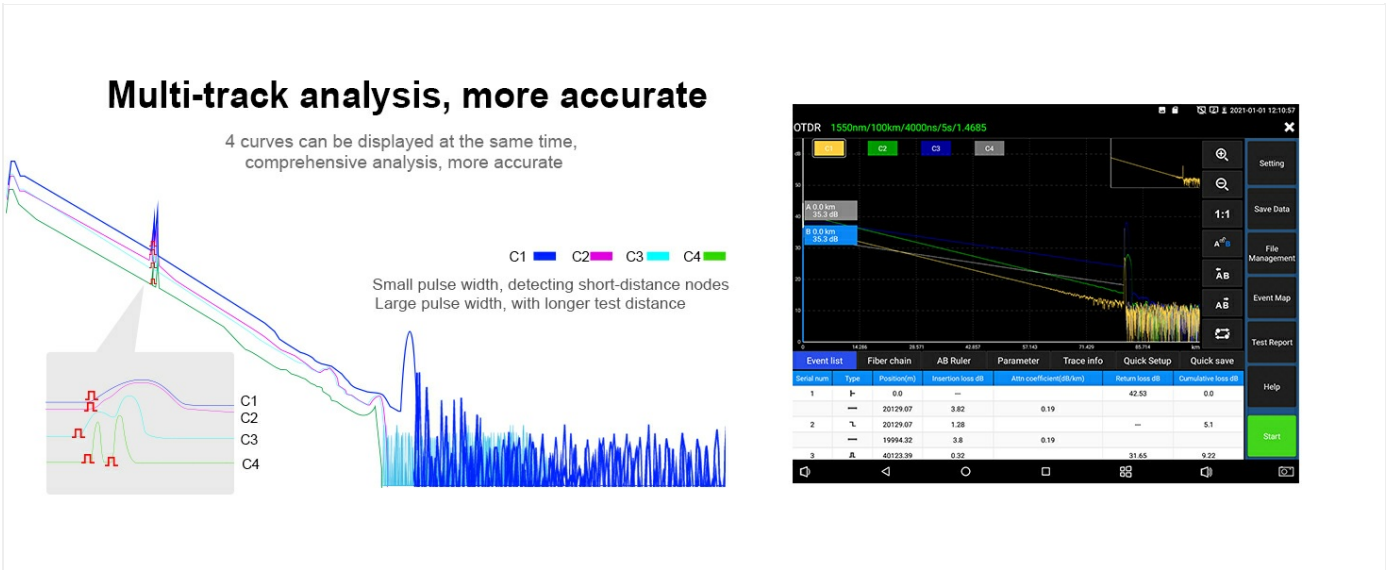


Figure 6.1.2: Multi-track analysis for detailed fiber optic inspection.

6.1.3 Event Map and Threshold Setting

The Event Map visually represents the results of fiber optic link inspections, showing information such as link length, connector types, fusion points, and breakpoints. Threshold settings allow defining pass/fail criteria for events.

Initial Event

Reflection Event

Non-reflection Event

End Event

End Event

OTDR

1550nm/0.5km/10m/100/1.4685

05:05 PM

Setting

Save Data

File Manager

Event Map

Testing report

HELP

OTDR Test

0.000 km

0.000 km

0.000 km

0.000 km

0.000 km

0.000 km

0.000 km

0.000 km

0.000 km

0.000 km

0.000 km

0.000 km

0.000 km

0.000 km

0.000 km

0.000 km

Number 1

Event Type

Start Event

Event position (km)

0.000

Distance from last location (km)

0.000

Return loss (dB)

0.000

Accumulated loss (dB)

0.000

Average event loss coefficient (dB/km)

0.000

Currently selected event

0.000 km

0.000 km

0.000 km

0.000 km

Total Length

0.000 km

Total Loss

-3.850 dB

Average Loss

-41.700 dB/km

Total Events

Pass:2

Fail:2

OTDR

1550nm/0.5km/10m/100/1.4685

2023-11-11 12:19:04

Parameter Setting

Threshold Setting

File Setting

Version info

Setting

Connect point (Reflection event) th...

✓

Total Loss:

32.0

dB

Reflection loss (connection)

✓

Reflection loss

0.2

dB

Fusion point (Non reflection event)

✓

Link Attenuation:

End point (End event) threshold

✓

1310nm:

0.4

dB/km

1550nm:

0.25

dB/km

save

Restore default s...

Cancel

Save Data

File Management

Event Map

Test Report

Help

OTDR Test

Figure 6.1.3: Event Map and Threshold Setting for fiber link analysis.

6.1.4 Test Report and File Management

Test results can be saved as curves and event lists. The device supports saving reports in EXCEL and PDF formats. File management allows opening, viewing, and organizing saved test data.

File management

Test Report: Save one or more curve trajectories and the list of events, parameters, fibre chains and rulers corresponding to the curves. Test reports are available in EXCEL and FDF formats.

File setting: Enable or disable file automatic naming, select the file format (otdr or sor) and file name type

File Management: Open the selected the curve file, 4 curve files can be simultaneously selected

OTDR

1310nm/0.5km/10m/100/1.4685

2023-11-11 13:09:03

Setting

Save Data

File Management

Event Map

Test Report

Help

OTDR Test

Test Report

/sdcard/JOBS/Report/OTDR/2023-11-11_13-09-01.xls

Preview

Del

Create Report

Create Excl...

success

OTDR

1550nm/0.5km/10m/100/1.4685

2023-11-11 13:09:24

Parameter Setting

Threshold Setting

File Setting

Version info

Setting

Auto Naming:

Open

File Format:

*.sor

Auto save sor:

Close

Name Type:

Wavelength+ pulse width+ date

Note

save

Restore default s...

Cancel

Save Data

File Management

Event Map

Test Report

Help

OTDR Test

OTDR

1550nm/0.5km/10m/100/1.4685

2023-11-03 10:40:56

Equipment catalog

Document list

Select all

Setting

Serial num

File name

Date

17

80km-1310nm_20000ns_200.0 km_2022-09-16_16-22-03.sor

2022-10-15 10:56:57

18

11km-1310nm_300ns_25.0km_2022-09-16_16-07-30.sor

2022-10-15 10:56:57

19

80km-1310nm_20000ns_100.0 km_2022-09-16_16-17-26.sor

2022-10-15 10:56:57

20

5410+15-1550nm_5ns_2022-09-16_15-34-11.sor

2022-10-15 10:56:57

21

1.8km-1310nm_160ns_2022-09-16_15-00-28.sor

2022-10-15 10:56:56

22

1.8km-1550nm_80ns_2022-09-16_15-51-12.sor

2022-10-15 10:56:56

23

1.8km-1310nm_160ns_2022-09-16_15-56-48.sor

2022-10-15 10:56:56

24

1.8km-1310nm_80ns_2022-09-16_15-49-41.sor.sor

2022-10-15 10:56:56

25

1.8km-1550nm_160ns_2022-09-16_15-56-14.sor

2022-10-15 10:56:56

Open

Copy

Delete

New folder

Copy to USB

Storage path

OTDR Test

Figure 6.1.4: Test Report generation and File Management options.

6.2 Optical Power Meter (OPM)

The OPM measures optical power linearly or non-linearly and is used for relative measurement of fiber link loss. It supports calibrated wavelengths of 850/1300/1310/1490/1550/1625nm.

Optical Power Meter

Connecting the measured fiber to the "OPM" port displays the optical power linearly or nonlinearly for direct measurement of optical power, as well as for relative measurement of fiber link loss.



OPM

- Test Range(dBm): -70~+10dBm
- Calibration Wavelength(nm): 850nm,1300nm,1310nm,1490nm,1550nm,1625nm
- Uncertainty: $<\pm 3\text{dB}$ (-10dBm, 22°C); $<\pm 5\text{dB}$ (full range, 22°C)
- Display Resolution: Linear: 0.1%; Nonlinear: 0.01dBm
- Detector: InGaAs

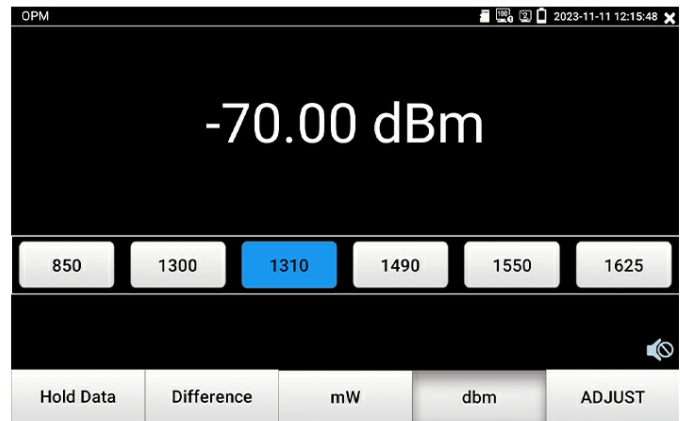


Figure 6.2: Optical Power Meter function and display.

6.3 Visual Fault Locator (VFL)

The VFL helps determine fiber continuity and locate faults using a 650nm wavelength laser. The maximum test range is 8KM.

Visual Fault Locator

It is used to determine fibre continuity and fault location.
650nm wavelength, max test range 8KM



VFL (Do not look directly at the light)

- Light type: LD
- Calibration Wavelength: 650nm
- Modulation mode: CW/1Hz/2Hz
- Measurement Range: 8KM

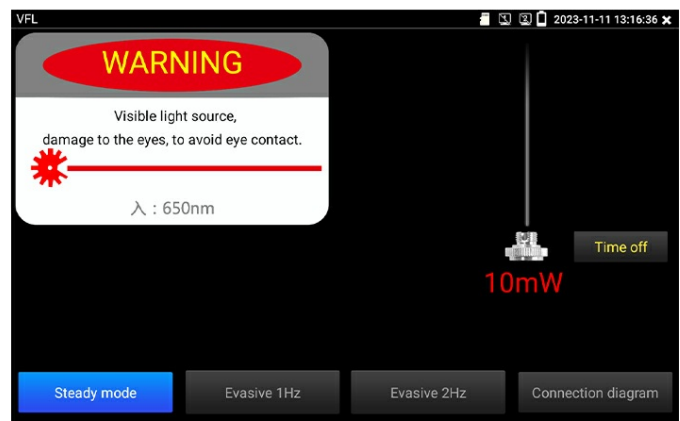


Figure 6.3: Visual Fault Locator function and safety warning.

6.4 Light Source (LS)

The Light Source function provides a stable optical signal for engineering and maintenance of optical fiber communication and CATV. It supports CW/270 Hz/330 Hz/1 kHz/2 kHz modes.

Light Source

Connecting optical fiber to "OTDR/LS" port. It is used to engineering and maintenance of optical fiber communication and CATV, fiber parameter setting, the production and research of optical components. Mode CW/270 Hz/330 Hz/1 kHz/2 kHz)



LS

- Light type: FP-LD
- Wavelength: 1310/1550nm
- Mode: CW/270 Hz/330 Hz/1 kHz/2 kHz
- Stability: CW, $\pm 0.2\text{dB}/15\text{min}$ (tested after 15min)

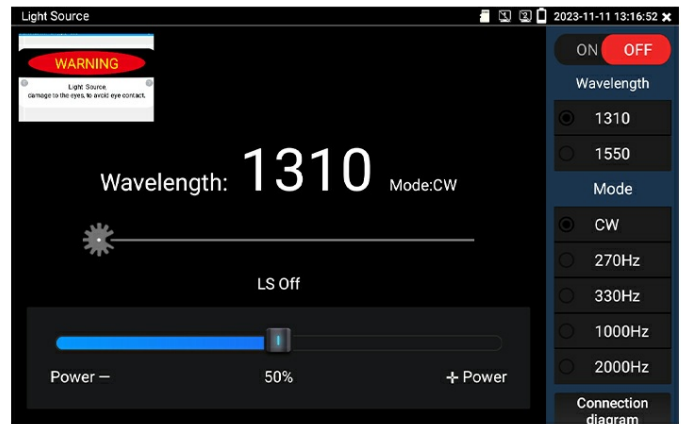


Figure 6.4: Light Source function and control interface.

6.5 Optical Loss Test (OLS)

The OLS function is used to test the insertion loss of optical passive devices. Calibration is recommended before testing for accurate results.

Optical Loss Test

It is used to test the insertion loss of optical passive devices. Calibration: Connect the OTDR/LS port and OPM port of the tester with short fiber optic patch cables and click "Start Test"; after the power is stable, click "Set Parameter".



After setting the parameter, connect the measured optical device to the OTDR/LS and OPM port of the tester, click "Start Test", and the "Relative Power" on the interface is the insertion loss value of optical device.
(Please calibrate before each test, the test results will be more accurate)

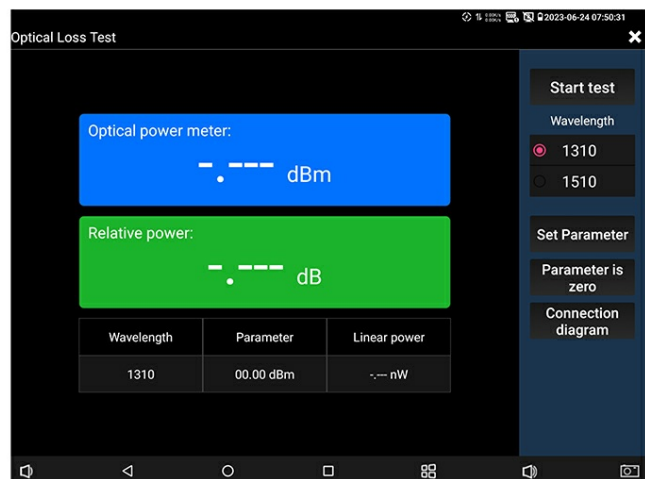


Figure 6.5: Optical Loss Test setup and display.

6.6 CCTV Camera Testing

The MT-8000 supports testing various types of CCTV cameras.

6.6.1 IP Camera Test (IPC Test)

This integrated function allows testing IP cameras, including PoE power supply voltage and camera test tools. It provides network information, IP discovery, ONVIF functionality, and live video display.

IPC Test

Integrated IP camera test, PoE and camera test tool function in one app, can view the network information, the power and voltage of PoE and DC 12V, also can go to ONVIF function and test tool functions.

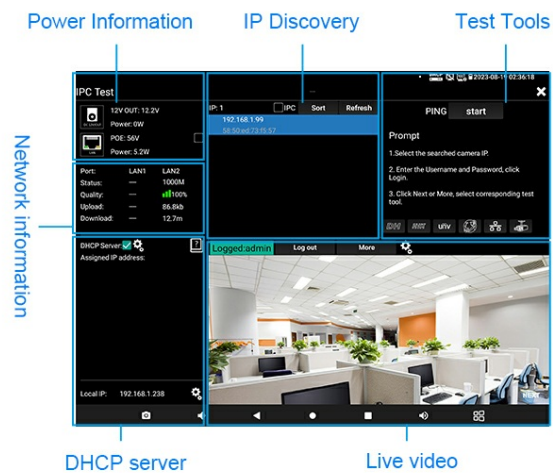


Figure 6.6.1: IPC Test interface with various camera testing options.

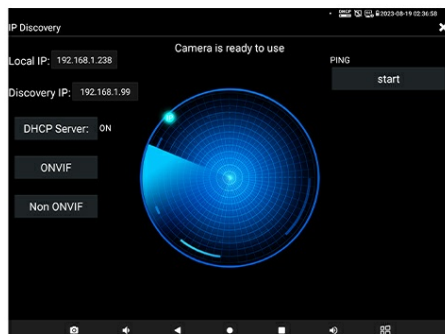
6.6.2 IP Discovery and ONVIF

The device automatically searches for network segment IP addresses and can modify the tester's local IP address to match the camera's network segment. ONVIF allows automatic login, image display, live video, and test report creation. It supports viewing four camera images simultaneously.



IP Discovery

Automatically search for all network segment IP addresses connected to the tester and automatically modify the tester's local IP address to be in the same network segment as the camera.



ONVIF

Automatically log in and display images, live video, create test reports, modify IP, modify channel name. Supports viewing four camera images at the same time, click 1 and 4 in the bottom menu to switch between single-window and four-window modes.

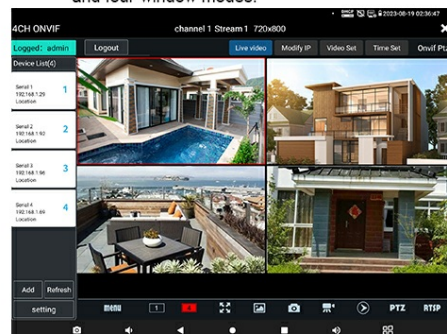


Figure 6.6.2: IP Discovery and ONVIF interfaces.

6.6.3 HIK / DH Camera Test

The IP camera tester supports batch activation of DH and Hik cameras, along with modification of IP addresses and passwords. It also allows for custom channel names and factory resets.

HIK / DH Camera Test

The IP camera tester supports batch activation of DH, Hik cameras and modification of IP addresses, passwords, support to self-defined modify channel name, factory reset, etc.

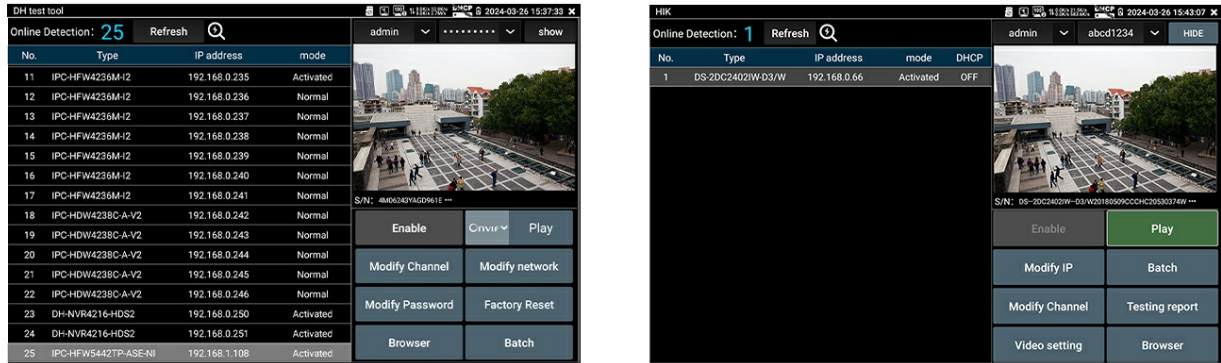


Figure 6.6.3: HIK / DH Camera Test interface.

6.6.4 HD Coaxial 4.0 Test (AHD/CVI/TVI/CVBS)

Supports testing of max 8MP AHD/CVI/TVI/CVBS cameras. The "AUTO HD" app automatically recognizes camera types, displays resolution and frame rate, and supports UTC control, OSD menu, screenshot, video recording, and playback.

HD Coaxial 4.0 Test

Support 8MP AHD/CVI/TVI camera test, support coaxial PTZ & call OSD menu.

HD Coaxial 4.0

coaxial PTZ control

call camera OSD menu

Snapshot and view

video record and playback

4x Zoom

CVBS & HD Camera

Using "AUTO HD" app can automatically recognize AHD/TVI/CVI/CVBS cameras and display resolution and frame rate on the screen, supports UTC control & call OSD menu, menu settings, screenshot, video recording, photo browsing, video playback, storage settings, etc.

Resolution comparison table :

HD coaxial camera type/ Resolution	720P	1080P	3MP	4MP	5MP	6MP	4K(8MP)
CVI 4.0	1280 x 720P 25/30/50/60 FPS	1920 x 1080P 25/30 FPS	—	2560 x 1440P 25/30 FPS	2592 x 1944P 20FPS 2880 x 1620P 25FPS	2880x1920 20FPS	3840 x 2160P 12.5/15 FPS
TVI 5.0	1280 x 720P 25/30/50/60 FPS	1920 x 1080P 25/30 FPS	2048 x 1536P 18/25/30 FPS	2688x1520P 15FPS 2560 x 1440P 15/25/30 FPS	2592 x 1944P 12.5/20FPS 2960 x 1660/20FPS	—	3840 x 2160P 12.5/15 FPS
AHD 4.0	1280 x 720P 25/30 FPS	1920 x 1080P 25/30 FPS	2048 x 1536P 18/25/30 FPS	2560 x 1440P 15/25/30 FPS	2592 x 1944P 12.5/20FPS	—	3840 x 2160P 15 FPS

NOTE: CVI 5MP/6MP need to be viewed in "AUTO HD"

Figure 6.6.4: HD Coaxial 4.0 Test setup and resolution comparison.

6.6.5 Color Bar Generator

Outputs a single channel PAL/NTSC color bar video signal for display testing.



Color Bar Generator

Output one channel PAL/NTSC color bar video signal




Figure 6.6.5: Color Bar Generator output.

6.7 Cable Testing

The MT-8000 provides comprehensive cable testing functionalities.

6.7.1 RJ45 Cable TDR Test



Tests cable pair status, length (up to 180m), attenuation, reflectivity, impedance, and skew. Advanced tests are available for detailed analysis.



RJ45 cable TDR test

Test once: Test cable pair status, length(up to 180M, one end of the network cable should be connected to the CCTV tester, and the other end of the network cable shouldn't be connected to other devices), attenuation(only network cables exceeding 10 meters can be used for testing).

Advanced Test: Test cable reflectivity, impedance, skew.
(One end of the network cable should be connected to the CCTV tester, and the other end of the network cable should be connected to a gigabit network devices)



Link	Pair	Status	Length(m)	Attenuation (dB/100m)
Link 1	1-2	open	0.0	...
	3-6	open	0.0	...
	4-5	open	0.0	...
	7-8	open	0.0	...
Link 2	1-2	open	10.5	-2.5
	3-6	open	10.5	-2.5
	4-5	open	10.5	-2.5
	7-8	open	10.5	-3.1

Unit: Meter(m)

Good quality cable (Green), Poor quality cable (Yellow), Wet cable (Red)

Link	Pair	Status	Length(m)	Attenuation (dB/100m)	Reflectivity (%)	Impedance (Ω)	Skew(m)
Link 1	1-2	open	0.0	...	...	...	Invalidation
	3-6	open	0.0	...	...	...	Invalidation
	4-5	open	0.0	...	...	...	Invalidation
	7-8	open	0.0	...	...	...	Invalidation
Link 2	1-2	on line	...	...	0.0	100	0
	3-6	on line	...	...	0.0	100	0
	4-5	on line	...	...	0.0	100	0
	7-8	on line	...	...	0.0	100	0

Good quality cable (Green), Poor quality cable (Yellow), Wet cable (Red)

Reflectivity, impedance and skew test

Figure 6.7.1: RJ45 Cable TDR Test interface and results.

6.7.2 Cable Length Test

Measures the breakpoint position (open circuit status) for BNC, RJ45, and RJ11 cables, with a maximum test length of 3000 meters.



Cable Length Test

Measure the breakpoint position of (open circuit status) BNC cables, RJ45 network cables, RJ11 cables, test length max 3000meters

The short-circuit status will not display the cable length.
One end of the cable should be connected to the CCTV tester, and the other end of the cable shouldn't be connected to other devices

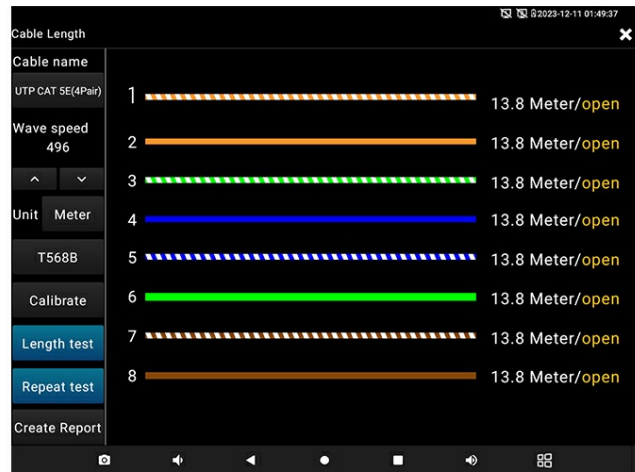


Figure 6.7.2: Cable Length Test interface.

6.7.3 Cable Tracer and UTP Cable Tester

The cable tracer helps locate BNC, network, and telephone cables in cluttered environments. The UTP cable tester displays connection status and detects near-end and far-end faults of RJ45 cables.



Cable Tracer

Cable Tracer: Searching for BNC cable, network cable and telephone cable from cluttered cables, also can search shield cables. The "G" indicates the continuity of the shielded network cable. The 1-8 indicators of cable tracer will flash according to the cable sequence. The DIRECT / CROSS / OTHER three indicator lights display the type of network cable directly

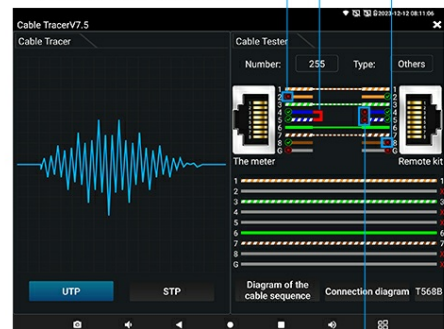


Cable Tester

Cable Tester: test UTP cable connection status and display on the screen, support detect the near-end, mid-end and far-end fault point of the RJ45 cable plug.



The 8th core of the registered jack on the cable tracer is faulty
The 2nd core of the registered jack on the CCTV tester is faulty



The 4th and 5th cores have breakpoints 1 meter away from the registered jack on the cable tracer

Figure 6.7.3: Cable Tracer and UTP Cable Tester functionalities.

6.7.4 Cable Tracer + Electroscope

This feature allows for non-contact detection of live wires and intelligent identification of neutral and live wires.

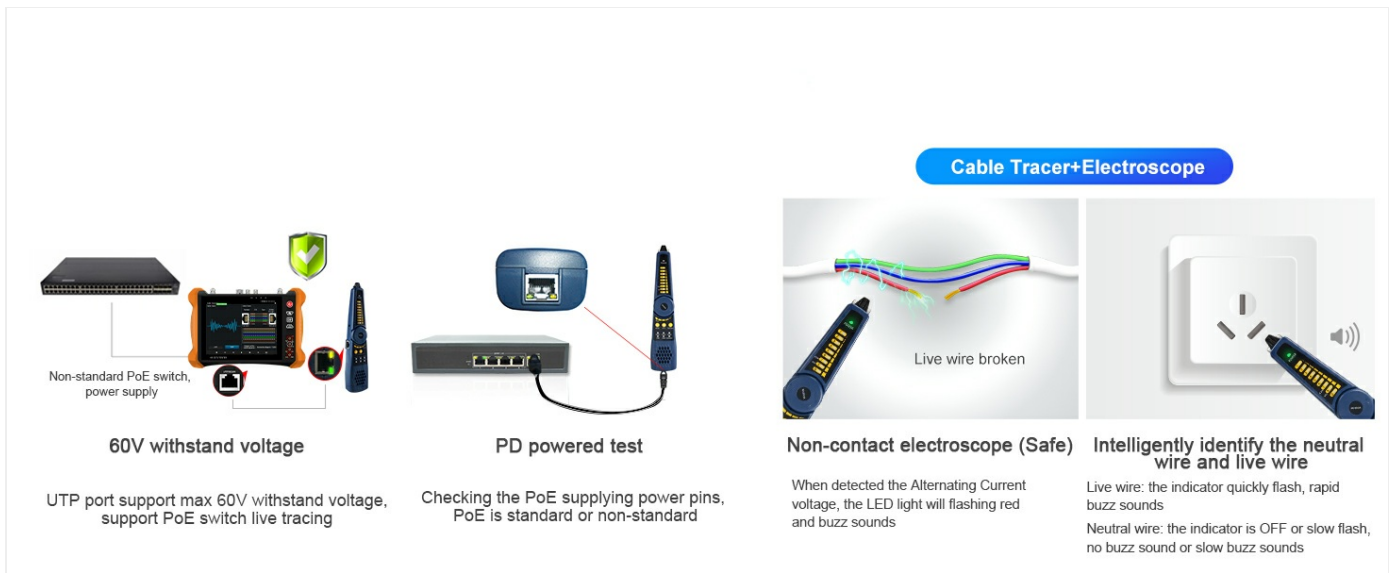


Figure 6.7.4: Cable Tracer with integrated electroscope.

6.8 Network Tools

The MT-8000 includes professional network testing tools such as Ping, IP scan, DHCP server, PPPOE, Trace Route, Port Flash, LLDP, and Link Monitor.

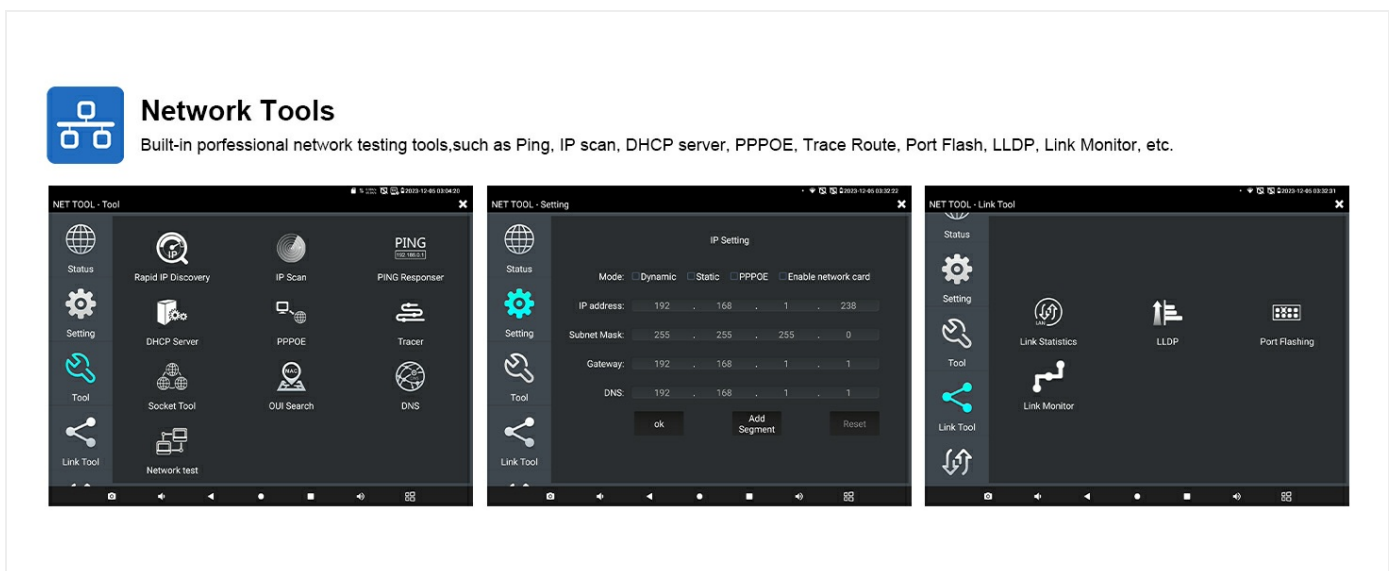


Figure 6.8: Network Tools interface.

6.9 Digital Multimeter (DMM)

The built-in DMM supports DC and AC voltage measurement, DC and AC current measurement, resistance measurement, continuity test, diode measurements, and capacitance measurement.

Digital Multimeter

DC and AC voltage measurement, DC and AC current measurement, Resistance measurement, Continuity test, Diode measurements, Capacitance measurement

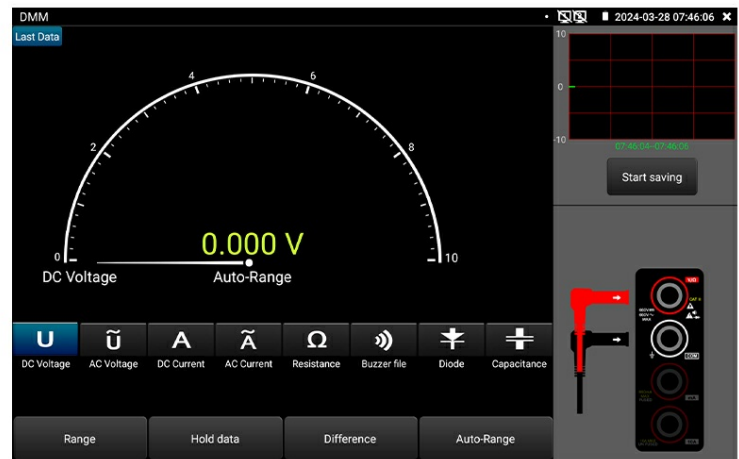
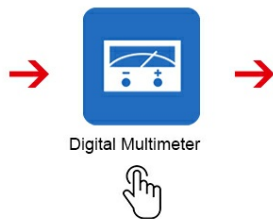


Figure 6.9: Digital Multimeter function and display.

6.10 PoE Functions

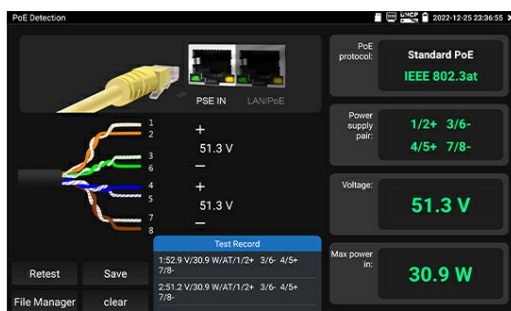
The device offers both PoE detection and power output capabilities.

6.10.1 PoE Detection and 12V Load Detection

Measures PoE switch or PSE power supply voltage and cable connection status. It supports IEEE802.3af/at. 12V load detection helps verify power stability.

PoE Detection

Measurement PoE switch or PSE power supply voltage and cable connection status (the power supply port of PoE switch and PSE power supply equipment must be connected to the PSE IN port of the cctv tester)



12V Load Detection

Before testing, connect the 12V power adapter to the DC12V/IIN connector of the instrument, and use the 12V adapter cable to connect the camera to the DC12V3A/OUT connector of the instrument. The curve in the interface shows the real-time voltage, power and current parameters of the 12V power adapter. Plugging and unplugging the power adapter or power adapter, the camera is not stable, the curve will appear obvious fluctuations

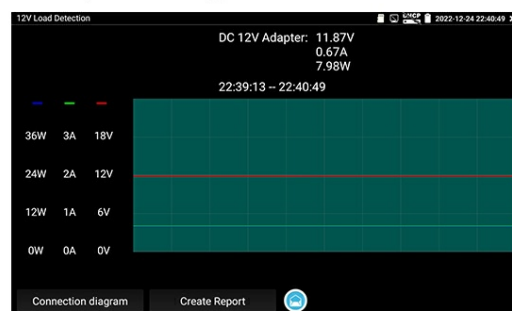


Figure 6.10.1: PoE Detection and 12V Load Detection interfaces.

6.10.2 PoE Power Output and Power Management

Supports PoE IEEE802.3af/at with a maximum output of 48V and 25.5W. Power management allows checking real-time voltage and power of PoE, DC12V, DC24V, and PSE input.

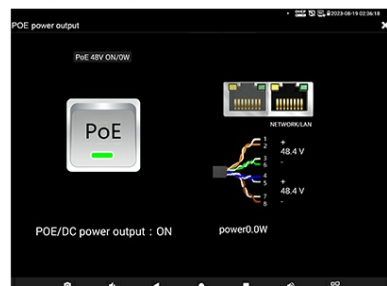


PoE Power Output

Support PoE IEEE802.3af/at , max 48V, power output 25.5W



(Please note that the network cable connected to the PoE power output port (LAN port) of the tester must be a straight-through cable and cannot be short circuited)



Power Management

Check real-time voltage and power of POE, DC12V, DC24V power output and PSE input, DC12V power input.



Figure 6.10.2: PoE Power Output and Power Management interfaces.

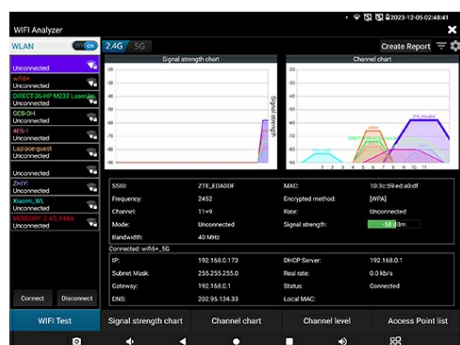
6.11 WiFi Analyzer

The WiFi Analyzer supports 2.4G frequency band, WiFi connection, WiFi list, WiFi information, and signal strength detection. It can also create a WiFi hotspot.



WIFI Analyzer

Support to analyse wifi signal strength, channel, channel level, etc. Built in Wi-Fi, display image from the wireless camera, create Wi-Fi hotspot.



FTP Serve

for copying and editing files from the SD card without using an SD card reader. Start the FTP service and then enter the tester's FTP address in the computer's address bar.

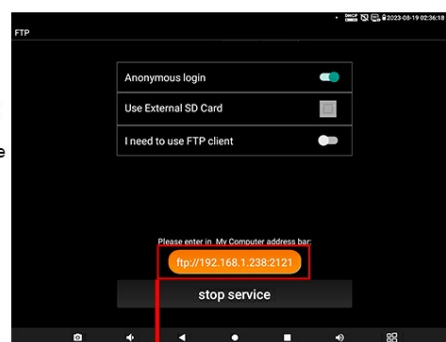


Figure 6.11: WiFi Analyzer and FTP Server interfaces.

6.12 HDMI Input/Output

The device features HDMI input (max 4K 60 FPS) to display video from external sources like DVRs/NVRs, and HDMI output (max 4K 30 FPS) to display the tester's screen on an external monitor.



Figure 6.12: HDMI Input and Output functionalities.

7. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your WANLUTECH MT-8000 tester.

- **Cleaning:** Regularly clean the screen with a soft, dry cloth. For optical connectors, use specialized fiber optic cleaning tools or alcohol cotton to remove dust and debris.
- **Storage:** Store the device in its protective case in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** If the device will not be used for an extended period, charge the battery to approximately 50% and store it separately if possible. Recharge periodically to prevent deep discharge.
- **Software Updates:** Check the manufacturer's website for any available software or firmware updates to ensure optimal performance and access to new features.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with the MT-8000 tester.

Problem	Possible Cause	Solution
Device does not power on.	Battery not charged; Battery isolation paper not removed; Faulty battery.	Ensure battery isolation paper is removed. Charge the device fully. If problem persists, contact support.
Inaccurate OTDR/OPM readings.	Dirty fiber connectors; Incorrect test parameters.	Clean fiber connectors with alcohol cotton. Verify OTDR parameters (wavelength, range, IOR).
VFL light is dim or not visible.	Low battery; VFL port obstructed or damaged.	Charge the device. Check VFL port for obstructions. Avoid direct eye contact.
IP camera not detected.	Network configuration issues; Incorrect IP address; PoE not supplying power.	Check network cable connection. Use IP Discovery. Verify PoE power output if applicable.
Touchscreen unresponsive.	Software glitch; Screen protector interference.	Restart the device. Remove and reapply screen protector if present.

9. SPECIFICATIONS

Key technical specifications for the WANLUTECH MT-8000 OTDR CCTV Tester:

Feature	Specification
Model Number	MT-8000
Display	8-inch Retina Touchscreen, 2048x1536 resolution
OTDR Wavelengths	1310nm/1550nm
OTDR Dynamic Range	28dB/26dB
OPM Calibrated Wavelengths	850/1300/1310/1490/1550/1625nm
VFL Wavelength	650nm (max test range 8KM)
CCTV Camera Support	Max 4K 12MP IP, 8MP AHD/TVI/CVI, CVBS
PoE Output	IEEE802.3af/at, max 48V, 30W
Power Output	DC24V/2A, DC12V/3A, DC5V/2A
HDMI Input	Max 4K 60 FPS
HDMI Output	Max 4K 30 FPS
Battery	1 Lithium Ion battery (included)
Dimensions	13.58 x 12.05 x 4.02 inches
Weight	5.82 Pounds







10. WARRANTY AND SUPPORT

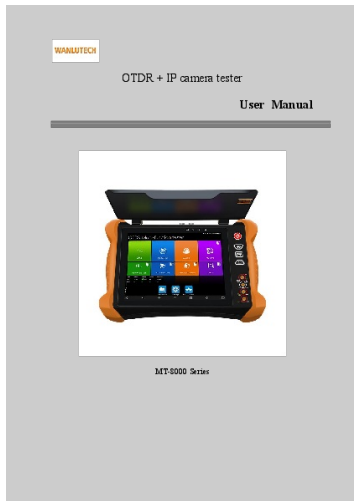
WANLUTECH stands behind the quality of its products. For any questions, technical assistance, or warranty inquiries, please contact our support team. We aim to respond within 12 hours.

You can reach us through your Amazon account by finding your order, viewing details, and clicking 'get product support'. Alternatively, search for 'WANGLU TESTER' on the product detail page and message us directly.



Related Documents - MT-8000

<p>Multi-function Tester Quick Guide</p> 	<p>WANLUTECH Multi-function Tester Quick Guide</p> <p>Comprehensive quick guide for the WANLUTECH Multi-function Tester, covering OTDR functions, IP camera testing, laser source, optical power meter, visual fault locator, and various cable tests. Includes detailed operation, settings, specifications, and safety information for professional fiber optic and network technicians.</p>
<p>Multi-function Tester Quick Guide</p> 	<p>WANLUTECH Multi-function Tester Quick Guide</p> <p>Comprehensive quick guide for the WANLUTECH Multi-function Tester, covering OTDR functions, IP camera testing, laser source, optical power meter, visual fault locator, and various cable tests. Includes detailed operation, settings, specifications, and safety information for professional fiber optic and network technicians.</p>
<p>Pro'sKit</p> <p>MT-7615/MT-7616 4 in 1 Fiber Optical Power Multimeter</p> <p>User's Manual</p> 	<p>Pro'sKit MT-7615/MT-7616 4-in-1 Fiber Optical Power Multimeter User Manual</p> <p>User manual for Pro'sKit MT-7615 and MT-7616 4-in-1 Fiber Optical Power Multimeters, detailing device operation, safety precautions, maintenance, troubleshooting, and technical specifications.</p>
<p>Pro'sKit</p> <p>MT-7063/MT-7064 PoE & Lan Cable Tester</p>  <p>CE</p> <p>User's Manual 2nd Edition, 2020 © 2020 Pro'sKit Industrial Co., Ltd</p>	<p>Pro'sKit MT-7063/MT-7064 PoE & LAN Cable Tester User Manual</p> <p>Comprehensive user manual for Pro'sKit MT-7063 and MT-7064 PoE & LAN Cable Testers. Learn to test Ethernet network for Power over Ethernet (PoE) existence, identify Power Sourcing Equipment (PSE) types (End-span/Mid-span), and check RJ11/RJ12/RJ45 cable maps for continuity, opens, shorts, and crossovers. Includes safety instructions, product features, specifications, and operation guides for both models.</p>
 <p>FIS</p> <p>The International Fiber Instrument Sales, Inc.</p> <p>2020 5th Edition</p> <p>Telecommunications Fiber Optic Product Catalog</p> <p>Providing Fiber Optic Solutions For Over 35 Years</p> <p>FTTx PRODUCTS & SOLUTIONS</p> <p>800-5000-FIS(347) www.fiberinstrument.com</p>	<p>FIS Fiber Optic Product Catalog: Telecommunications & FTTx Solutions</p> <p>Explore the comprehensive FIS (Fiber Instrument Sales) catalog featuring a wide range of fiber optic products, FTTx solutions, test equipment, splicing tools, and services for telecommunications networks. Find high-quality equipment and expert support.</p>
<p>Pro'sKit</p> <p>MT-7063/MT-7064 Tester per cavo PoE e Lan</p>  <p>CE</p> <p>Manuale utente 2da Edizione, 2020 © 2020 Pro'sKit Industrial Co., Ltd</p>	<p>Pro'sKit MT-7063/MT-7064 PoE and LAN Cable Tester User Manual</p> <p>Comprehensive user manual for Pro'sKit MT-7063 and MT-7064 PoE and LAN cable testers, detailing features, specifications, safety instructions, and operation for testing Ethernet and network cables.</p>



[\[pdf\]](#) User Manual Warranty Label

IP camera tester wj User Manual WANLUTECH OTDR Tester 1310 1550nm 28 26dB 8 Touch Screen SM
Built in OPM OLS VFL Event Map Support TVI CVI AHD CVBS Camera Test Discovery HDMI RJ45
Cable TDR Tools Home Improvement D1raNxofwBL m media amazon images I |||

OTDR IP camera tester User Manual **MT-8000** Series Thank you for purchasing the
WANLUTECH OTDR IP Camera Tester. Please read the manual before using the it
and use properly. For using the OTDR IP Camera Tester safely, please first read the
Safety Information carefully in the manual. The manu...

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