

Multifunction OTDR

MT-8000 | OTDR

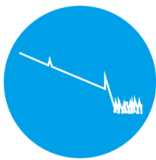
Combined fiber testing, camera testing and cable testing



Wavelength (Optional):**1310/1550/1610**

Dynamic range (Optional): **26dB/28dB
30dB/32dB/34dB**

SOR standard data saving, create **PDF**
/EXCEL format report



Fiber

IP camera

Cable

Coax

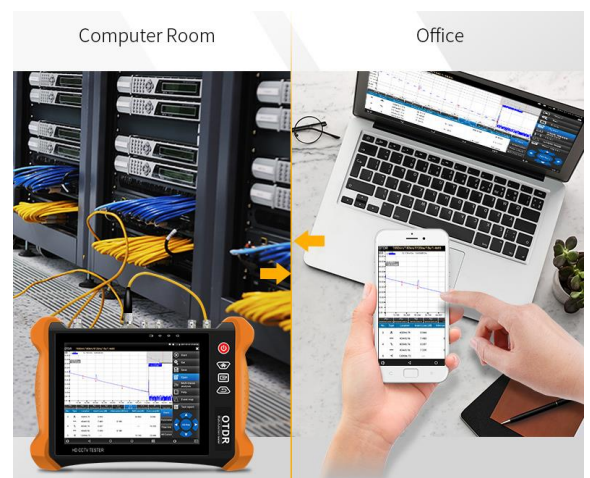
- ◆ **8 inch** retina touch screen, **2048*1536 resolution** + New system
- ◆ Anti-sunlight and screen protecting cover
- ◆ 1310/1550/1610 wavelength optional, **max test range 150KM**
- ◆ High isolation filtering technology, support optical signal test, only 1610nm support this function **(Optional)**
- ◆ Stable laser source, support CW/270/330/1000/2000Hz
- ◆ Loss test, detect the optical or optical components loss value
- ◆ Event Map, locate connection point/ fusion point
- ◆ Automatic analysis of various linkers/fusion points, easy analyze of various events
- ◆ Save and view the testing curves, support zoom and move curves, view details
- ◆ Support saving curves number ≥ 30000 pcs
- ◆ Report saved as EXCEL, PDF, or screenshots format etc
- ◆ 4K H.265 IP camera testing, DH and Hik testing tool for brand camera testing
- ◆ TVI 5.0 support audio testing
- ◆ 8MP TVI CVI AHD camera test
- ◆ 3G-SDI, HD-SDI /EX-SDI 2.0 camera test **(Optional)**
- ◆ Support UCC menu control mode ,A-TYPE, B-TYPE select **New**
- ◆ Support 4K 60FPS HDMI input, 4K 30 FPS HDMI output
- ◆ Improvement cable tester, UTP cable etc continuity test, detect the near-end, mid-end and far-end fault point of the RJ45 cable plug
- ◆ Digital Cable tracer, search BNC cable, network cable and telephone cable from the messy cables. Cable search and UTP cable test in the same interface
- ◆ TesterPlay: Support Internet remote control and voice intercom function

- ◆ Wifi Analyzer, Support 2.4G&5G frequency band, wifi connection, wifi list, wifi information, wifi signal strength detection
- ◆ DC24V 2A power output, DC12V 3A, 48V PoE power output
- ◆ Network tool PRO: IP address conflict and switch port detection

Application

Multi-function MT-8000 OTDR is an essential tool for fiber length, network and camera testing. OTDR displays the power of the returned signal related to distance. The information can be used to confirm the transmission quality of a fiber optic link. It is widely used in the maintenance, construction and monitoring of cable line. It can measure the optical fiber length, transmission attenuation of optical fiber, attenuation of splice, and failure location, etc. as well, built in camera tester for maintenance and installation of IP analog, HD coaxial cameras as well as other security equipment. If taking the all in one OTDR, making working conditions safer and increasing productivity.

- CCTV system installation and maintenance
- Network cabling project installation and maintenance
- Dome camera, IP TVI CVI AHD SDI 4K H.265 camera testing
- Video transmission channel testing
- PTZ controller
- Fiber length testing and Event Map etc



Features

OTDR: **New**

- 8 inch retina touch screen, 2048*1536 resolution
- 1310/1550/1610 wavelength optional, **max test range 150KM**
- Stable laser source, support CW/270/330/1000/2000Hz
- Optical power meter and visual fault locator
- Test fiber's length, loss, attenuation parameters and event map, locate connection point/ fusion point
- Automatic analysis of various linkers/fusion points, easy analyze of various events
- Save and view the testing curves, support zoom and move curves, view details.
- Support saving curves number ≥ 30000 pcs
- Support create testing report, including curve trajectory graphs, parameter settings, fiber event information, and fiber link information. Report saved as EXCEL, PDF, or screenshots format etc
- Loss test, detect the optical or optical components loss value

Camera test:

- H.265 & H.264 IP, 4K video display via mainstream, analog camera tester
- 8MP TVI test, 3840 x 2160P 15 fps, 4x zoom, video record & playback, coax PTZ control & call OSD menu
- 8MP AHD test, 3840 x 2160P 12.5F/ 15fps, 4x zoom, video record & playback, coax PTZ & call OSD menu

- 8MP CVI test, 3840 x 2160P 12.5/15fps, 4xzoom, video record& playback, coax PTZ & call OSD menu
- HD-SDI/EX-SDI camera test, support 1080P 50/60 FPS **(Optional)**
- Support 4K 60FPS HDMI input, 4K 30 FPS HDMI output **New**
- IPC TEST PRO app, Camera test often need to open multiple apps,"IPC TEST PRO" app
- Rapid ONVIF, Auto log in and display image, create testing report
- Chrome browser, test and set Axis camera
- AXIS, Hikvision camera test, enter ONVIF app, input username and password to test
- IPC TEST (Non-ONVIF test)
- Video level meter, peak video signal level, SYNC signal level, Color bar chroma level measurement
- DC12V/3A power output, camera can be powered from DC 12V Voltage
- 48V PoE power output
- Rapid video, just by one key to detect all network cameras and auto display
- Built in Wi-Fi, display image from the wireless camera, create WIFI hotspot
- CVBS loop test, the tester send and receive color bar generator signal, to check BNC cable
- Enhanced Color bar generator, PAL/NTSC multi-system color bar video generator
- Digital multimeter, DC and AC voltage measurement, Resistance measurement, Continuity test, Diode measurements, Capacitance measurement

Cable test:

- **Improvement cable tester**, UTP cable, telephone cable etc sequence and continuity test, save testing report. Support detect the near-end, mid-end and far-end fault point of the RJ45 cable plug
- **RJ45 cable TDR test**, test cable pair status, length, attenuation, reflectivity, impedance, skew etc, max test 180M
- **Cable tracer**, search BNC cable, network cable and telephone cable from the mess cables
- Larger Lithium Ion Polymer Battery, 3.5 hours faster charging, working time lasts 11 hours

Specifications

| OTDR Technical Specifications | | | | | | | | |
|-----------------------------------------|----------------------------------------------------------------|-------|-------|-------|------|----|----|----|
| Wavelength (nm) | 1310/1550 | | | | 1610 | | | |
| Dynamic range(dB) ² | 28/26 | 30/28 | 32/30 | 34/34 | 28 | 30 | 32 | 34 |
| Pulse width (ns) | 5,10,20,30,50,80,160,300,800,1000,2000,6000,10000,20000 | | | | | | | |
| Testing distance | ≤150 Km | | | | | | | |
| Event blind zone (m) ³ | ≤2.2m | | | | | | | |
| Attenuation blind zone (m) ³ | ≤15m | | | | | | | |
| Linearity (dB/dB) | ±0.05 dB/ dB | | | | | | | |
| Loss threshold (dB) | 0.05 | | | | | | | |
| Loss resolution ratio (dB) | 0.01 | | | | | | | |
| Sampling resolution ratio (m) | 0.125~8 | | | | | | | |
| Sampling point | 32K | | | | | | | |
| Distance uncertainty (m) | ±(1 m + 5×10 ⁻⁵ × distance + sampling interval) | | | | | | | |
| Distance scope (km) | 0.5,1,2,5,10,25,50,100,200 | | | | | | | |
| Typical real-time refreshing duration | 1s | | | | | | | |
| Measurement duration | 5sec, 10sec, 15sec, 30sec, 1min, 2min, and 3min are selectable | | | | | | | |
| Interface type | FC-PC | | | | | | | |
| Remarks: | | | | | | | | |

1. The technical specification describes the ensured performance of the instrument when using typical PC model connector to measure, without considering the uncertainty caused by optical fiber refractivity.
2. Dynamic range is the data measured under the condition of the maximum pulse width and 3 minutes of average time. Dynamic range is the data measured under the condition of 200km/20000ns/3min.
3. Measuring conditions of blind zone: reflection event is within 5Km, reflection strength is 45dB. Measured by the minimum pulse width.

| Specification | |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size & Display | 8 inch touch screen with retina display, 2048*1536 resolution |
| Network Port | Dual 1000M LAN port, 10/100/1000M auto adapt |
| WIFI | Built in WIFI, speeds150M, display wireless camera image |
| H.265 mainstream test | H.265 & H .264 IP, 4K video display via mainstream |
| IP camera test | Support 500 brands IP camera test |
| IP discovery | Auto-scan the whole network segment IP address |
| HD coaxial camera test | TVI 5.0/ CVI 4.0/ AHD 4.0 camera test, UTC control & call OSD menu |
| SDI camera test | 8MP EX-SDI, HD-SDI, 3G-SDI, UTC control & call OSD menu (Optional) |
| CVBS camera test | 1 channel BNC input & 1 channel BNC looped output, NTSC/PAL (Auto adapt) |
| Zoom Image | 4x zoom, enlarge image, screen snapshot, save, view and record and playback |
| RJ45 cable TDR test | Test cable pair status, length, attenuation, reflectivity, and impedance, skew etc. measurement range 180M. |
| HDMI input/output | 4K 60FPS HDMI input, 4K 30 FPS HDMI output |
| Power output | 48V PoE/ 24V2A/ 12V 3A / 5V 2A power output |
| color bar generator | Output one channel PAL/NTSC color bar video signal for testing monitor or video cable |
| UTP cable test | Test UTP cable connection status and display on the screen. Read the number on the screen. detect the near-end, mid-end and far-end fault point of RJ45 cable connector, also can test shield cable |
| Data monitor | Captures and analyzes the command data from controlling device, also can send hexadecimal |
| Network test | Trace route, Link monitor, DHCP server, port flashing, Ping test |
| Digital Cable tracer | Search BNC cable, network cable and telephone cable from the mess cables. Cable tracer and UTP cable test app in the same interface, also can search shield cable |
| PoE Voltage test | Measurement POE switch or PSE power supply voltage and cable connection status |
| Visual fault locator | 10mW visual fault locator with 650nm wavelength, emit red laser sources to test multi-mode and single mode fiber's bending and breakage, test range 8KM |
| Optical power meter | Wavelength: 1625,1550nm,1490nm,1310nm,1300nm,850nm, measurement range ,-70 ~ +10 dBm, for optical power testing and Fiber link loss relative measurement |
| Digital Multimeter | DC and AC voltage measurement, Resistance measurement, Continuity test, Diode measurements, Capacitance measurement |
| Power | |

| | |
|------------------------------|--------------------------------------------------------|
| External power supply | DC 12V (2A) |
| Battery | Built-in 7.4V Lithium polymer battery, 7000mAh |
| Rechargeable | After charging 3.5 hours, normal working time 11 hours |
| Parameter | |
| Operation setting | OSD menu, English and Chinese language optional |
| Auto off | 5-30 (mins) |
| Working environment | |
| Working Temperature | -10°C---+50°C |
| Working Humidity | 30%-90% |
| Dimension/Weight | 264mm x 182mm x 43mm / 1Kg |