Multifunction OTDR

Dual Wavelength **1310/1550**

Dynamic range: **28dB/26dB**

SOR standard data saving, create **PDF /EXCEL** format report
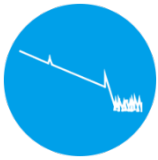
**Fiber   IP camera   Cable   Coax**

- **8 inch** retina touch screen, **2048*1536 resolution** + New system
- Anti-sunlight and screen protecting cover
- 1310/1550 dual wavelength**, test range 130KM**
- 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 ≥30000pcs
- 8K 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
- Support UCC menu control mode, A-TYPE, B-TYPE selectable **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
- Network tool PRO: IP address conflict and switch port detection
- DC24V 2A power output, DC12V 3A, 48V PoE power output
- Digital Multimeter: DC and AC voltage measurement, Resistance measurement, Continuity test, Diode measurements, Capacitance measurement

● 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

● Visual fault locator: 10mW visual fault locator with 650nm wavelength can emit red laser sources to test multi-mode and single mode fiber's bending and breakage, test range 10KM

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 8K H.265 camera testing
● Video transmission channel testing
● PTZ controller
● Fiber length testing and Event Map etc
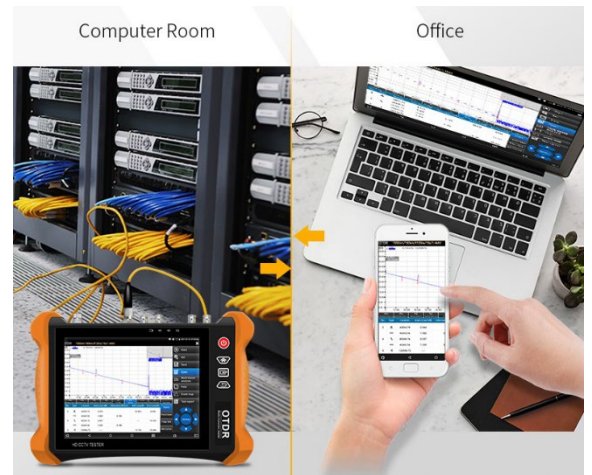
Features

OTDR: New

● 8 inch retina touch screen, 2048*1536 resolution
● 1310/1550 dual wavelength, test range 130KM
● 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 ≥30000pcs
● 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

Camera test:

● H.265 & H .264 IP, 8K video display via mainstream, analog camera tester
● 8MP TVI test, 3840 x 2160P 15 fps,4xzoom, video record &playback, coax PTZ control & call OSD menu
● 8MP AHD test, 3840 x 2160P 12.5F/ 15fps, 4xzoom, 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
● 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 can send and receive color bar generator signal, to check BNC cable
- Enhanced Color bar generator, PAL/NTSC multi-system color bar video generator

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
Dynamic ange(dB)[2]	30/28
Pulse width (ns)	5,10,20,40,80,160,320,640,1280,2560,5120,10240,20480
Testing distance	≤130 Km
Event blind zone (m)[3]	≤2.4m
Attenuation blind zone (m)[3]	≤14m
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)	$\pm(1\text{ m} + 5\times10^{-5}\times \text{ distance } + \text{ sampling interval})$
Distance scope (km)	1,5,10,30,60,100,180
Typical real-time refreshing duration	1s
Measurement duration	5sec, 10sec, 15sec, 30sec, 1min, 2min, and 3min are selectable
Interface type	FC-UPC

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 100km/10240ns/3min.

3. Measuring conditions of blind zone: reflection event is within 10Km, reflection strength < -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 ports, 10/100/1000M auto adapt
WIFI	Built in WIFI, speeds 150M, display wireless camera image
H.265 mainstream test	H.265 & H .264 IP, 8K 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
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 and 4K 30FPS 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 10KM

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, select your desired language: English, Portuguese, Korean, Russian, Italian, French, Polish, Spanish, Japanese, Turkish, Deutsch, Serbian, Czech, Vietnamese etc
Auto off	5-30 (mins)

Working environment

Working Temperature	-10℃---+50℃
Working Humidity	30%-90%
Dimension/Weight	264mm x 182mm x 43mm / 1Kg