

8 inch OTDR Tester M-OTDR-903

Application:

- Wavelength 1310 / 1550nm, max test range 105KM
- Dynamic range 28 / 26dB, SOR standard data saving
- Optical power meter and visual fault locator
- IP camera test, support onvif, 4K, 8K, H.264 and H.265
- Cvbs camera test, 8MP CVI, 8MP TVI, 8MP AHD camera test
- Cable tracer app with toner wand, RJ45 cable TDR test
- DC12V 3A, DC24V 2A and 48V / 25.5W PoE power output
- Support HDMI Input, HDMI output, Digital multimeter
- Anti-sunlight and screen protecting cover



Optical Time Domain Reflectometer

Feature:

OTDR Test:

- 8 inch retina touch screen, 2048*1536 resolution
- 1310 / 1550nm wavelength, 28 / 26dB Dynamic range, max test range 105KM
- 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 test
- 8MP HD-TVI camera test, 3840 x 2160P 15fps, 4xzoom, video record & playback, coax PTZ control & call OSD menu
- 8MP HD-CVI camera test, 3840 x 2160P 12.5/15fps, 4xzoom, video record & playback, coax PTZ & call OSD menu
- 8MP AHD camera test, 3840 x 2160P 12.5F/15fps, 4xzoom, video record & playback, coax PTZ & call OSD menu
- Support TVI 5.0 audio testing
- Support 4K 60FPS HDMI input, 4K 30 FPS HDMI output
- 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), 48V PoE power output
- DC12V / 3A power output, camera can be powered from DC 12V Voltage

- 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:

- 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

Specification:

| OTDR technical data | |
|--|---|
| Wavelength (nm) | 1310 / 1550nm |
| Dynamic range(dB) ² | 28 / 26dB |
| Pulse width (ns) | 5, 10, 20, 30, 50, 80, 160, 300, 500, 800, 1000, 2000, 4000, 6000, 10000, 20000 |
| Testing distance | ≤105 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) | $\pm(1 \text{ m} + 5 \times 10^{-5} \times \text{distance} + \text{sampling interval})$ |
| 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

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|--------------|------------|
| Model number | M-OTDR-903 |
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|----------------------------|---|
| 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 | 8MP HD-TVI, 8MP HD-CVI, 8MP AHD 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, 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 |
| 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℃ -- +50℃ |
| Working Humidity | 30% -- 90% |
| Dimension | 270mm x 180mcm x 44mm (Tester); 345mm x 305mm x 100mm (Box) |
| Weight | 1272g (Tester); 3050g (Tester with spare parts, black package, box) |