MOT-200 Mini OTDR series

Description:

The **MOT-200** series Optical Time Domain Reflectometer (OTDR) is a next-generation intelligent meter designed for detecting fiber communication systems. As optical networks expand in urban and rural areas, measurements become shorter and more dispersed; the **MOT-200** is specifically tailored for these applications. It is cost-effective and delivers exceptional performance.

Manufactured with meticulous care, the **MOT-200** adheres to national standards, integrating extensive experience with modern technology. It undergoes rigorous mechanical, electronic, and optical testing and quality assurance. The new design makes the **MOT-200** smarter, more compact, and versatile.

Whether you need to detect the link layer during the construction and installation of optical networks or perform efficient maintenance and troubleshooting, the **MOT-200** is your ideal assistant.

MOT-200

Features:

- Ultra-thin design, smart and rugged
- 4.95-inch multi-touch screen
- Build-in operation system
- One-button automatic test
- Event map function
- Built-in OLS/OPM/VFL modules
- RJ-45 cable tester and Tracker module
- Over 1000 groups of testing results storage
- PC software for generating test report
- USB-C port for data transmission
- Built-in rechargeable Lithium battery

Variants of Mini OTDR:

Type [1]	Testing Wavelength (nm)	Dynamic Range[2] (dB)
MOT-200-D36	1310/1550	36/34
MOT-200-D32	1310/1550	32/30
MOT-200-M26	850/1300	26/22
MOT-200-P32	1310/1490/1550	32/30/30
MOT-200-S32	1625 or 1650	32

Application:

- FTTX test with PON networks
- CATV network testing
- Access network testing
- LAN network testing
- Metro network testing
- Lab and Factory testing
- Live fiber troubleshooting

Note: 1) For **more models** see bellow "Ordering code". Customizing models are also supported.
2) **Dynamic range** is measured with maximum pulse width, averaging time is 3 minutes, SNR=1, The level difference between the RMS noise level and the level where near and back-scattering occurs.

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Specifications:

Pulse Width	5 ns, 10 ns, 25 ns, 50 ns, 100 ns, 250 ns, 1 µs, 2.5 µs, 5 µs, 10 µs, 20 µs
Test range	100 m, 200 m, 2 km, 10 km, 20 km, 40 km, 80 km, 120 km, 160 km, 240 km
Distance Accuracy	± (1 m + testing distance x $5x10^{-5}$ + sampling resolution)
Min. sampling resolution	256 000
Distance resolution	0.01 m
Attn. accuracy	±0.05 dB/dB
Reflectance accuracy	±4 dB
Event dead zone (EDZ)[3]	3 m
Attn. dead tone (ADZ) [3]	8 m
Memory	> 1000 groups; + External U-disk can be used
Dimensions (L x W x H)	160 × 80 × 18 mm
Display	4.95 inch multi-touch color LCD screen
Interface	USB - Type C
Power Supply	Lithium battery, USB Type C
Language	English
Environmental Conditions	Operating temperature and humidity: -10°C to +50°C Storage temperature and humidity: -20°C to +70°C

Note: 3) Event Dead Zone and Attenuation Dead Zone are measured with minimum pulse width.

Ordering Code:

MOT-200-XXX-(PM)-(V30)-(USC)-(T3

XXX – see table Variants of Mini OTDR:
( ) – optional items, please define

Optional module:

PM	Power Meter-standard module
V30	VFL (30 mW)
USC	SC/UPC adapter (for OTDR port)
T3	RJ45 Cable tracker

Standard module:

LS	Laser Source module
PMH	Power Meter (High-power) module
V10	Visual Fault Locator module (10 mW)
NSC	SC/APC adapter (for OTDR port)
T1	RJ45 Remote module

Module parameters

	Parameter	Specification
VFL	Wavelength	650±20nm
	Output Wave Type	CW & 2Hz
	Output Power	10 mW or customized (Max. 30 mW)
LS	Wavelength	Same as OTDR
	Modulation Frequency	270/330 Hz /1/2 kHz & Blink
	Output Power	≥ -5dBm
PM	Working wavelengths	850/980/1270/1300/1310/1490/1550/1577/1625/1650 nm
	Connector	2.5 mm universal
	Modulation Detection	270/330 Hz /1/2 kHz
	Measuring Range	S: -70 to +10; H: -50 to +30 dBm
T1	Line sequence test	8 core & shielded line
	Dimensions (L*W*H)	35 x 41 x 14.5 mm
T3	Line sequence test	8 core & shielded line
	Cable Detect	Normal & Anti-jamming mode, Adjustable sensitivity, Max. 600 m
	NCV Detect	AC 90 V – 1000 V
	Power Supply	Lithium Battery
	Dimensions (L*W*H)	132 x 35 x 14.5 mm

Standard accessories:

- Soft case TE-EVA-215
- USB-C cable
- USB AC/DC power adapter

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