OT-200

Multifiber MPO Optical Time Domain Reflectometer

In FTTX, data center, enterprise network and other projects that require high integration of multiple cables, MPO/MTP is used more and more widely,and this is the trend of optical communication development.Based on the rapid development of market demand, how to effectively deploy MPO cables has become an urgent problem that needs to be solved at present.Dimension's OT-200 is equipped with an MPO optical switch, which has all the features of an OTDR, and makes corresponding improvements for the MPO deployment scheme, which is suitable for various scenarios.OT-200 can independently complete multi-fiber one-stop troubleshooting, supports up to 24 fibers, and can completely replace MPO to multiple single-core connectors for testing, greatly improving deployment efficiency and effectively reducing Troubleshooting difficulty for technicians.
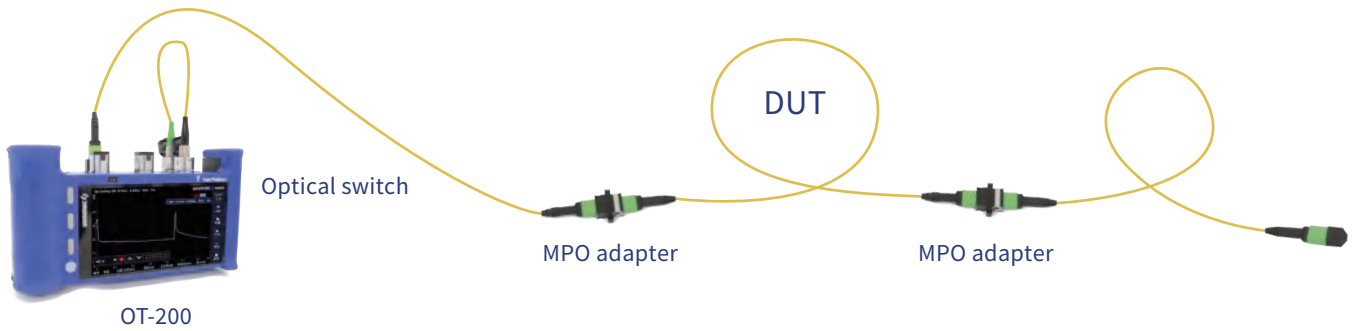
Main Features

· One-click testing,Multi-channel testing can be specified(Up to 24 cores)
· Platform and modular design
· Small and portable, light weight, one hand operation
· Built-in dust-proof design
· Multifunctional
· Long battery life, unique replaceable smart battery
· Display data intelligently
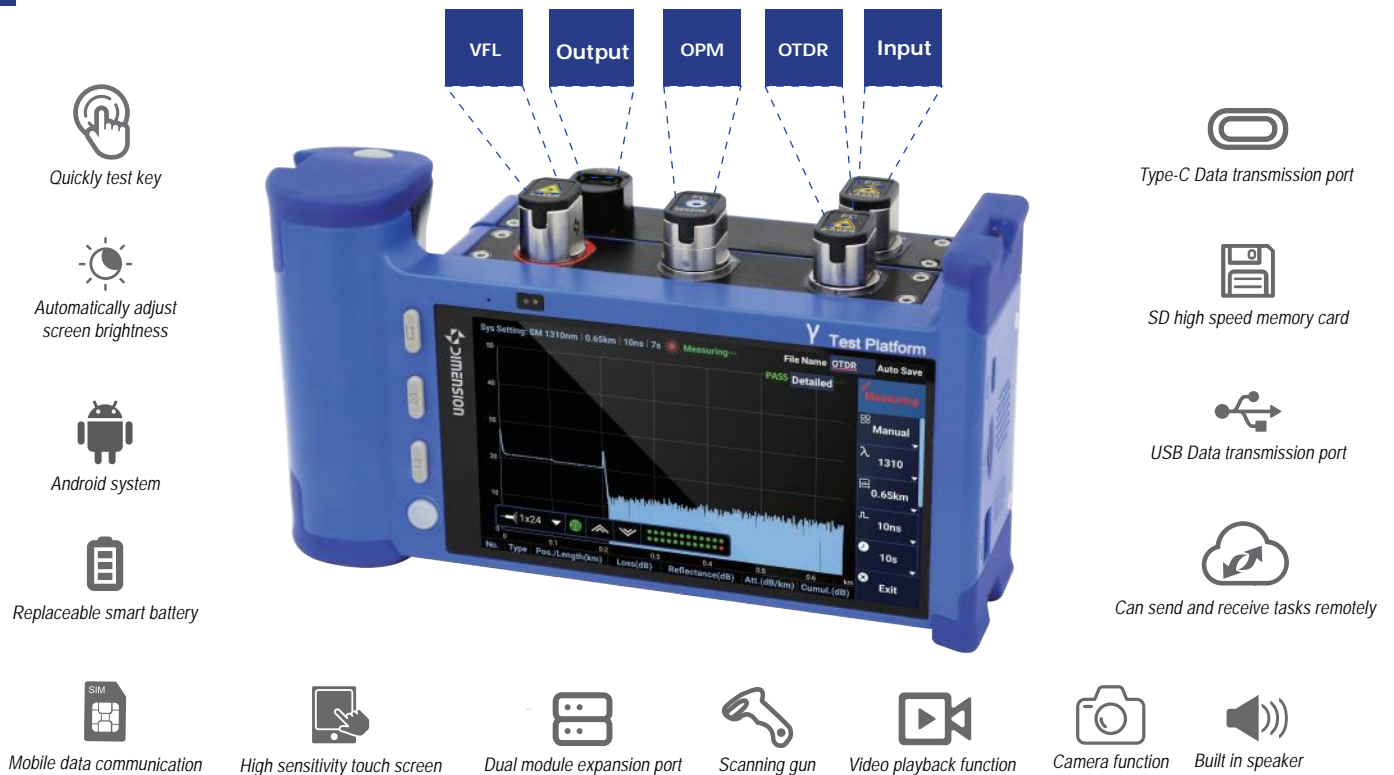· Single-mode and multi-mode fiber types available

Applications

· The deployment of multi-cable highly integrated projects such as data centers
· MPO/MTP Link Troubleshooting
· Construction of MPO fiber optic cables for enterprise network and central network

One-click testing

OT-200 can test MPO devices directly without using multiple single-core connectors to MPO test solution, and it can realize multi-channel one-click test (up to 24 cores).

Optical switch

DUT

MPO adapter

MPO adapter

OT-200

Multifunctional

| VFL | Output | OPM | OTDR | Input |

Quickly test key

Automatically adjust screen brightness

Android system

Replaceable smart battery

Type-C Data transmission port

SD high speed memory card

USB Data transmission port

Can send and receive tasks remotely

Mobile data communication   High sensitivity touch screen   Dual module expansion port   Scanning gun   Video playback function   Camera function   Built in speaker

Small and portable, light weight, one hand operation

Thanks to the excellent ergonomic design and small and portable body shape of Dimension Technology, it can be carried in different ways, young and fashionable. In operation, just press the shortcut key to complete the test, and the data can be automatically analyzed and saved. It only need a little training, novice can also complete the communication fault inspection.

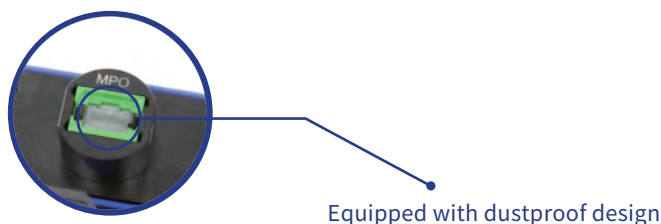Shoulder carrying   Single shoulder carrying   Carry with one hand   Test with one hand
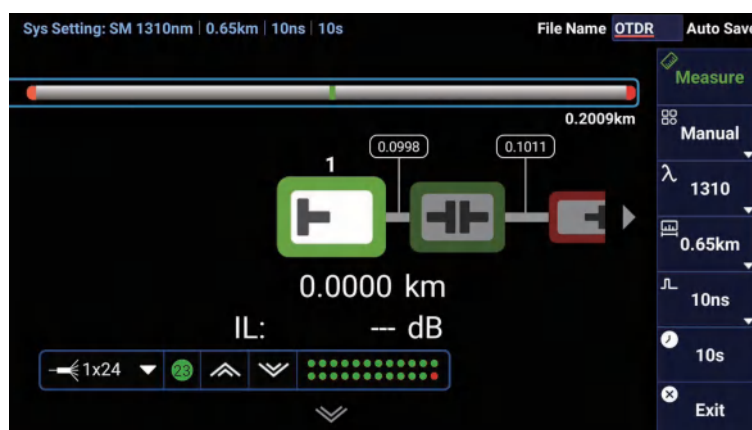
Built-in dust-proof design

The adapter on the OT-200 has a built-in dust-proof design, which can effectively prevent the port from being contaminated or damaged when not in use.
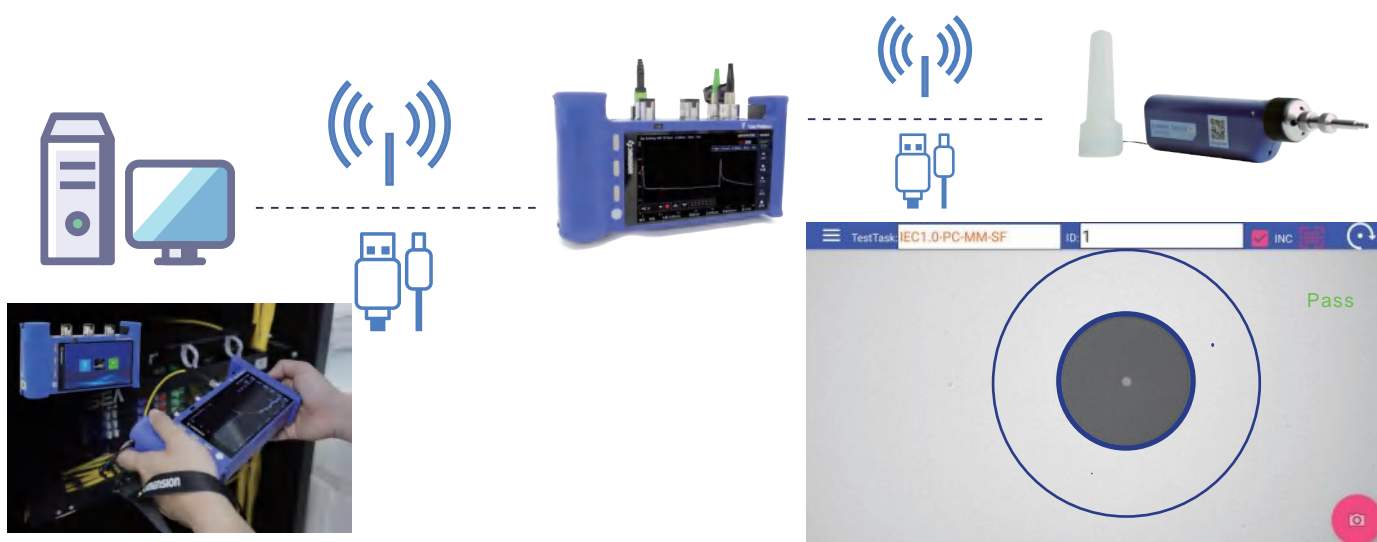

Equipped with dustproof design

Display data intelligently

Intelligently display the data and visualize the core condition of the current preset task, remind the actual condition of each optical fiber link by color.

Extension

The OTDR can be perfectly integrated into the product ecological chain of Dimension Technology. It can communicate through WiFi or USB, use Dimension's app to control other test equipment and become a main device. Besides, It can also be controlled by other main devices through WiFi or USB to become a test module in a test system.

High speed test, accurate results and high repeatability

Each OTDR of dimension technology has been specially calibrated by engineers, with fast test speed, accurate results and high test repeatability. It avoids multiple tests caused by inaccurate tests and greatly improves the test efficiency.

Event	Times	Location / length (km)	IL（dB）	Reflectivity（dB）	Total（dB）
Fusion point1	1	0.3036	0.448		0.448
	2	0.3032	0.451		0.451
	3	0.3038	0.451		0.451
	4	0.3026	0.445		0.445
	5	0.3032	0.445		0.445
Fusion point2	1	0.8311	0.372		0.82
	2	0.8314	0.372		0.823
	3	0.8317	0.370		0.821
	4	0.8314	0.370		0.815
	5	0.8310	0.370		0.815
The end	1	1.8112	2.588	-36	3.408
	2	1.8106	2.617	-35.9	3.440
	3	1.8112	2.575	-35.9	3.396
	4	1.8115	2.692	-36.1	3.507
	5	1.8115	2.677	-36.1	3.492

Optical switch can be controlled independently

The OT-200 can complete the OTDR link correlation analysis, and can also directly use the optical switch to control the light output of the multi-core link.The UI interface is also specially designed, and the current link is visualized in the upper right corner by imitating the front view of the MPO end.

Single-mode and multi-mode fiber types available

The optical switch of OT-200 can choose single-mode and multi-mode fiber types to meet the test needs in different environments.

Long battery life, unique replaceable smart battery

The whole series of OTDR of dimension technology adopts replaceable high-capacity intelligent batteries. The battery can be charged independently, with a life time of up to 8 hours; The battery can be replaced at any time, backup battery can be added to realize "No power off".

Adapt to a variety of environments

In order to cope with different scenarios and testers of different occupations, dimension technology has specially improved the reliability of such test equipment, making the use of equipment more flexible and applicable.

Desert

Plateau

Ocean

Specification

OTDR		
Type	OT-200-2133-PV#1310/1550-24	OT-200-2226-PV#850/1300-16
Wavelength (nm)	1310/1550	850/1300
Dynamic range (dB)	33/31	26/26
Pulse width (ns)	5/10/30/50/100/275/500/1000/2500/10000/20000	
Event dead zone (m)	1	
Attenuation dead zone (m)	5	
Linearity (dB/dB)	±0.03dB/dB	
Loss resolution	0.001dB	
Distance uncertainty	+(1+0.005 %xdistance +sampling resolution)	
Distance range (km)	0.1~180	0.1~10
Switch wavelength range (nm)	1250~1670	850±40 & 1300±40
Switch Insertion loss (Without connector)	<1.5dB	
Switch Channel crosstal	>70dB(SM/APC)	>55dB(MM/PC)

Memory capacity	16G(Extensible)
Monitor type	5.5-inch IPS HD display
Power supply	Lithium battery:5V,6400mAh
Operating temperature	0 °C to 50 °C
Storage temperature	–40 °C to 70 °C
Humidity	0 % to 95 %(Non-condensing)
Weight	<1.2kg

OPM(options)

Wavelength range（nm）	800nm~1700nm
Measurement range（dBm）	-50～+10
Measurement inaccuracy	+/-5%
Calibration wavelength	850/1300/1310/1490/1550/1625

VFL (options)

Wavelength range（nm）	63nm~670nm
Working mode	CW/1Hz
Connector type	FC/SC/ST/LC

Ordering information

OT-200—☐ ☐ ☐☐—☐ ☐—☐☐ # ☐ ☐

Number of wavelengths		Laser source type		Dynamic range		OPM options		VFL optionss		Connector Type		Optional wavelength	Number of switch channels	
2	Two wavelengths	1	Single mode	33	33dB(SM 1310)	X	None	X	None	FP	FC/PC	850/1300(MM)	12	12Channels
		2	Multi mode	26	26dB(SM 850)	P	Equipped	V	Equipped	FA	FC/APC	1310/1550(SM)	16	16Channels
										SP	SC/PC		24	24Channels
										SA	SC/APC			

Example:
Model:OT-200-2133-PV#1310/1550-24
OTDR dual wavelengths, single mode, 33dB dynamic range, with OPM, with VFL, FC/PC adapter, wavelengths 1310/1550,24 channels switch.
Model:OT-200-2226-XX#850/1300-16
OTDR dual wavelengths, multi mode, 26dB dynamic range, without OPM, without VFL, FC/PC adapter, wavelengths 850/1300,16 channels switch.

Related products

OT-100	Easyget Wifi	Fiber Launch	Optical Probe