OTDR *Optical time domain reflectometer*

M *Multi-function*

E *Extension*

S *Simple*

L *Light*

I *Intellectualization*

A *Adaptability*

P *Portable*

S *Small*

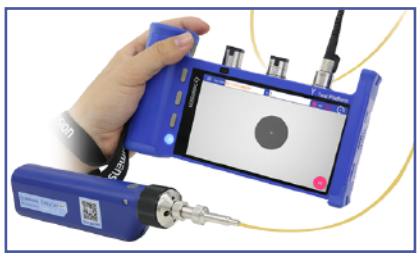
The multi-functional OTDR optical fiber tester of Dimension Technology can help field technicians reliably and cost effectively install, open, troubleshoot and monitor any optical network architecture. It uses OTDR test module + γ architecture of handheld general test platform ,and it integrates OTDR, visual fault location, optical power meter, light source and other applications. It can also expand the end face detection function, realize multi pulse width test + automatic analysis, and has powerful functions to measure the length, loss, connection quality and other parameters of various optical fibers. This series of products, based on the design of Android tablet computer, adopts 5.5-inch color touch screen, which can realize the dual operation of key and touch; At the same time, it also has a variety of connection modes, which can be extended and connected to other test modules and handheld devices of Dimension Technology through high-speed connector interface, WiFi, USB, etc. Or it controlled by PC, with good expansibility and ease of use; Solid and reliable quality is also the consistent adherence of Dimension Technology. This series of OTDR has anti drop design and high reliability, and has become a good tool for various types of on-site optical fiber monitoring.

Main Features

- Multifunctional
- Platform and modular design
- Intellectualization
- Extension
- Small and portable, light weight, one hand operation
- Fault inspection of communication system at all levels
- Automatic / manual OTDR mode: multi pulse width test + automatic analysis
- High speed test, accurate results and high repeatability
- Simple operation, no training, easy to start
- Long battery life, unique replaceable smart battery
- Adapt to a variety of environments

Applications

- LAN/WAN network
- Metropolitan area network
- FTTx network
- Date center
- Optical teaching and research
- Fiber/optical cable product and use
- Access network
- Enterprise network



Multifunctional

Quickly test key

Automatically adjust screen brightness

Android system

Replaceable smart battery

Can send and receive tasks remotely

Mobile data communication

High sensitivity touch screen

Scanning gun

Video playback function

Camera function

Built in speaker

USB Data transmission port

SD high speed memory card

Type-C Data transmission port

Platform and modular design

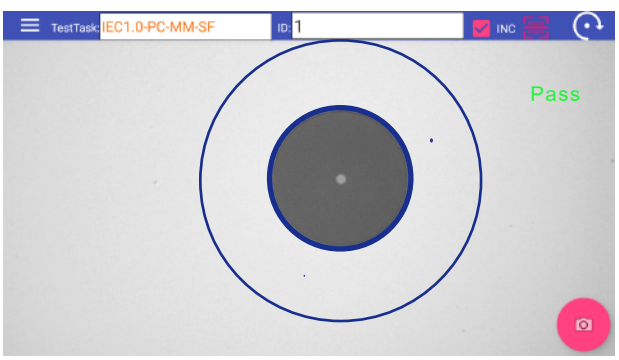
Dimension γ architecture of handheld general test platform provides a complete set of on-site optical test solutions. It can be compatible with a variety of field optical test modules including OTDR through high-speed connector interface, WiFi, USB and other ways, with strong scalability and easy maintenance and management.
Customers can purchase other test modules and handheld devices for function expansion to realize one-stop measurement.

Intellectualization

The OTDR of this series is based on Android system. It has rich application support of Android system. Through the application development and excellent UI design of Dimension Technology, users can become more intelligent and humanized in the process of use, and easily complete various complex optical tests. Besides, it also has a task sending and receiving function to complete a remote work arrangement and report.

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.



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

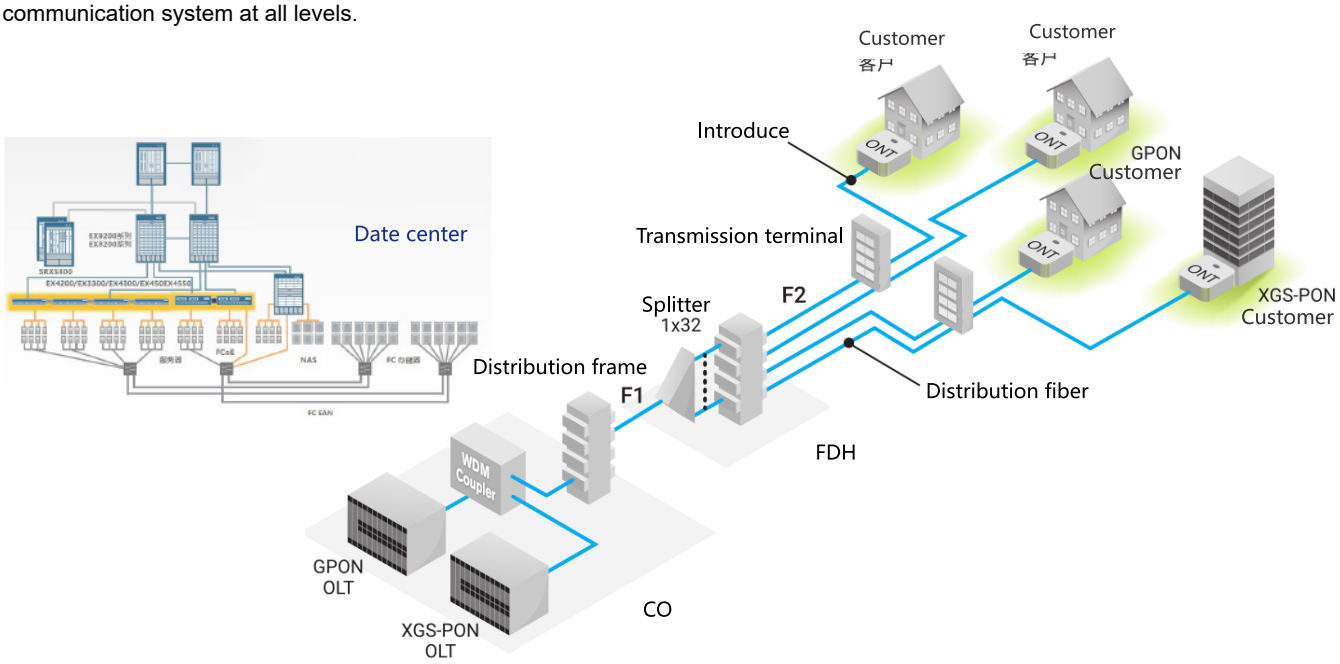
Single shoulder carrying

Carry with one hand

Test with one hand

Fault inspection of communication system at all levels

It integrates OTDR, visual fault location, optical power meter, light source and other applications. Construction and fault inspection of communication system at all levels.



Automatic / manual OTDR mode

Automatic / manual OTDR mode: multi pulse width test + automatic analysis. Automatic mode is simple and convenient without inputtingthe parameters of the system to be tested.

OTDR makes a judgment by sending pulses with different bandwidth and obtains an accurate data.Manual mode is to input the parameters of the system to be tested, and then conduct an accurate positioning test, which is efficient and accurate.

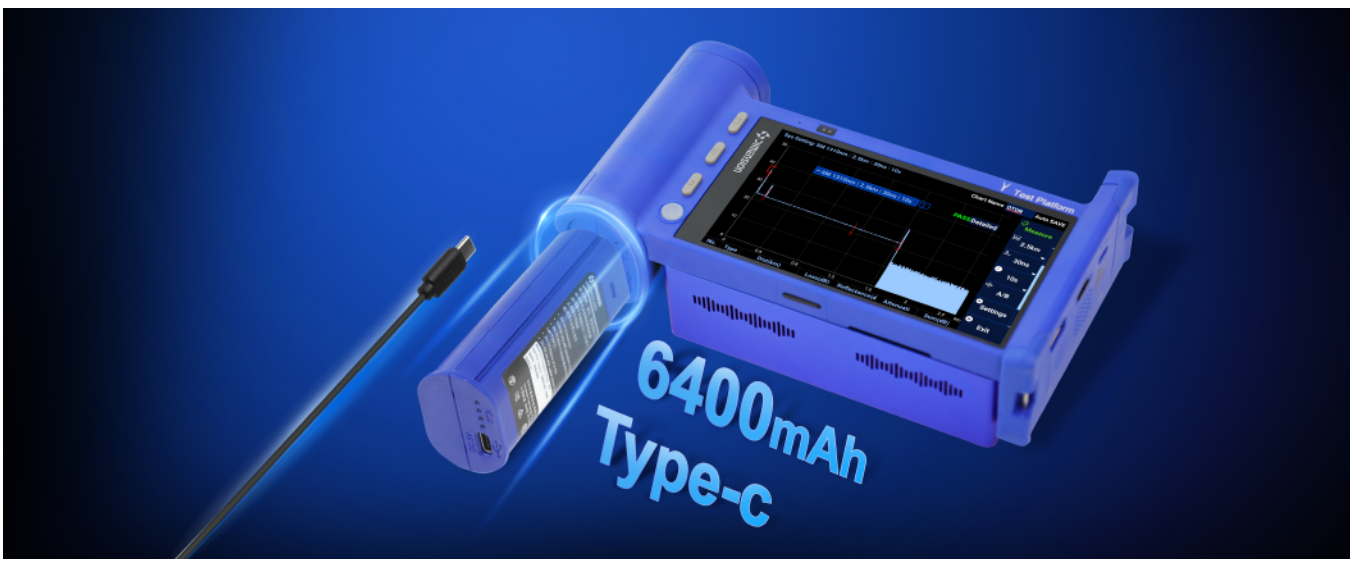
High speed test, accurate results and high repeatability

Each OTDR of dimension technology has been specially calibrated by engineers, with fast test speed, accurate results and high test repeatability. It avoid repeated measurements due to inaccurate tests, creating a high-efficiency environment for you.

Event	Times	Location / length (km)	IL (dB)	Reflectivity (dB)	Total (dB)
Fusion Point 1	1	0.1085	0.229	-50.2	0.300
	2	0.1083	0.236	-50.2	0.307
	3	0.1087	0.237	-50.3	0.308
	4	0.1085	0.236	-50.4	0.307
	5	0.1084	0.231	-50.1	0.302
Fusion Point 2	1	1.1194	0.198		0.827
	2	1.1192	0.205		0.835
	3	1.1195	0.203		0.836
	4	1.1196	0.197		0.833
	5	1.1194	0.201		0.833
The End	1	1.6305	-	>-28.7	0.971
	2	1.6302	-	>-28.4	0.970
	3	1.6303	-	>-28.7	0.974
	4	1.6305	-	>-28.5	0.968
	5	1.6307	-	>-28.4	0.973

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, So that you can work without worrying about power problems.



Adapt to a variety of environments

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

Detector Adapters Selection Guide

Number	PN	Name	Description	Image
1	204710021	OTDR FC fast adapter	Light source interface, suitable for FC connector	
2	204710022	OTDR SC fast adapter	Light source interface, suitable for SC connector	
3	204810002	OPM FC adapter	Detection interface, suitable for FC connector	
4	204810003	OPM SC adapter	Detection interface, suitable for SC connector	
5	204810004	OPM LC adapter	Detection interface, suitable for LC connector	
6	204810007	OPM 2.5 ferrule adapter	Detection interface, suitable for FC/SC/ST connector and 2.5mm ferrule	
7	204810006	OPM 1.25 ferrule adapter	Detection interface, suitable for LC/duplex LC /SN connector and 1.25mm ferrule	

Specification

OTDR				
Type	OT-100-2132-PV#1310/1550	OT-100-2136-PV#1310/1550	OT-100-2136-PV#1310/1625	OT-100-2224-PV#850/1300
Wavelength (nm)	1310/1550	1310/1550	1310/1625	850/1300
Dynamic range (dB)	32/30	36/34	36/34	24/24
Pulse width (ns)	3/5/10/30/50/100/275/500/1000/2500/10000/20000			3/5/10/30/50/100/275/500/1000/2500
Event dead zone (m)[2]	0.75			2
Attenuation dead zone (m)[2]	3.5			10
Linearity (dB / dB)	±0.03			
Loss resolution (dB)	0.001			
Ranging resolution (m)	0.001			
Ranging accuracy (m)	±(0.75 + 0.005 % x distance + sampling resolution)			
Distance range（km）	0.1~180	0.1~240	0.1~240	0.1~5
Data format	SOR/PDF/HTML			

Laser Source				
Wavelength（nm）	1310/1550	1310/1550	1310/1625	850/1300
Laser type	FP-LD			
Output power（dBm）	-20			-40

OPM (Options)	
Wavelength range (nm)	800nm~1700nm
Measuring range (dBm)	-50~+10
Measurement uncertainty	±5%
Calibration wavelength (nm)	850/1300/1310//1550/1625
Connector type	FC

VFL (Options)	
Wavelength（nm）	630nm~670nm
Working mode	CW/1Hz
Output power（mW）	>1
Connector type	FC

General Parameter	
Memory capacity	16G(Extensible)
Monitor type	5.5-inch IPS HD Display
Power supply	Lithium battery:5V,6400mAh
Operating temperature（°C）	10~40
Storage temperature（°C）	-40~70
Humidity	0 % to 95 %(Non-condensing)
Weight（kg）	<1.150
Dimension（mm）	200*110*65

Note:

[1] All specifications are applicable at a temperature of 23 °C ± 1 °C

[2] Deadzone test conditions: SM1550/3ns/0.65km/60s; The event reflection coefficient is -45 ± 2dB

Ordering information

OT-100 Single fiber single&multi mode series OTDR

OT-100 — □ □ □□ — □ □ — □□ # □

Number of wavelengths	
1	One wavelengths
2	Two wavelengths
3	Three wavelengths

SM/MM	
1	Single mode
2	Multi mode

Dynamic range	
24	24dB(MM 850)
32	32dB(SM 1310)
36	36dB(SM 1310)
40	40dB(SM 1310)
45	45dB(SM 1310)

OPM options	
X	None
P	Equipped

VFL options	
X	None
V	Equipped

Connector Type	
FP	FC/PC(MM)
FA	FC/APC(SM)
SP	SC/PC(MM)
SA	SC/APC(SM)
XX	Others

Optional wavelength
1310(SM)
1550(SM)
1625(SM)
1650(SM)
850(MM)
1300 (MM)

Example:

Model:

OT-100-2132-PV-FP # 1310/1550

OTDR dual wavelengths single mode, 32dB dynamic range, with OPM, with VFL, FC/PC adapter, wavelengths 1310 and 1550

Relate products

Fiber Launch

Optical Probe

EasyGet Wifi

Easycleaner-3

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