DESCRIPTION

PH300 Series OTDR is designed with lightweight and user friendly dimension. It is perfect for outdoor and easy to use. PH300 Series OTDR ensures accurate and complete fiber evaluation which allows anyone to proceed error-free testing with only single button operation. It is cost effective, with high resolution and compact size. Suitable for installation, operation and maintenance of optical networks.

OLE™ Enabled

FEATURES

- Hand-held and portable
- High performance over cost
- 5-inch HD touch screen
- Simple interface and single-button operation
- Long battery operations
- Optical Link Explorer™ (OLE™) enabled to simplify analyzing

APPLICATION

- Real-time troubleshooting
- Access network testing
- LAN/WAN network testing
- CATV network testing
- Metro network testing
- Lab and factory testing

SPECIFICATIONS

Description	Specification	
Model	PH300-D26	PH300-D35
Display	5 inch TFT-LCD (touch screen)	
Battery*	7.4V/3300mAh lithium battery (with air traffic certification) Continuously test : 6 hours (back light off) Charging time : 3.5 hours	
Data Storage	40,000 traces	
Interface	3xUSB port (USB A Type x 2, Micro-USB x 1)	
Working Temperature	-10°C ~+ 50°C	
Storage Temperature	-20°C ~+ 70°C	
Humidity	≤95% (non-condensation)	
Dimension	195 x 141 x 44mm / 0.9kg (battery included)	
Accessories	Main unit, 12V power adapter, Lithium battery, FC adapter, USB cord, User guide, carrying case, wrist belt	
Testing Wavelength	1310/1550nm	1310/1550nm
Dynamic Range**	26/24dB	35/33dB
Event/Attenuation Dead-zone***	1/6m	1/6m

OTDR, PH300 SERIES

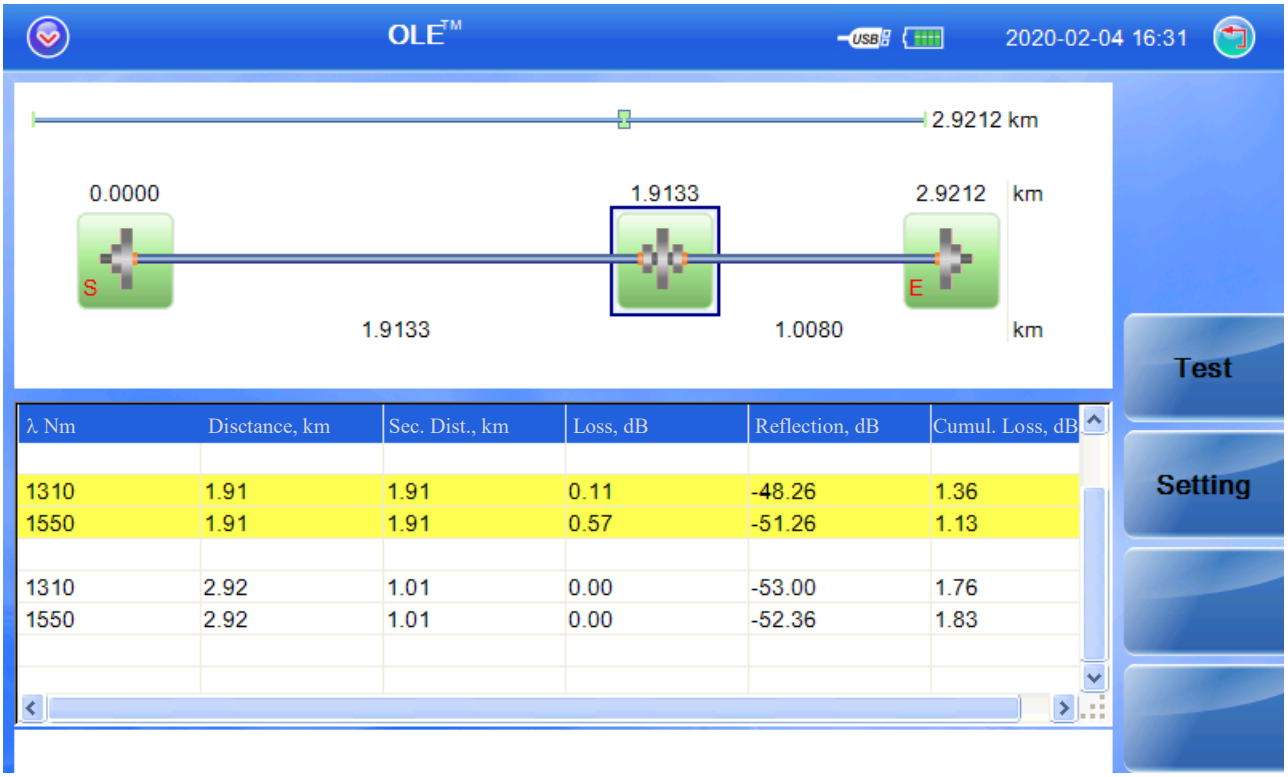
Technical Parameters	
Pulse Width	3ns, 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs, 5μs, 10μs, 20μs (20μs only for D35)
Distance Range	100m, 500m, 2km, 5km, 10km, 20km, 40km, 80km, 120km, 160km, 240km
Sampling Resolution	Minimum 5cm
Sampling Point	Maximum 128,000 points
Linearity (dB)	≤0.05dB/dB
Scale Indication	X axis : 4~70m/div, Y axis ; 0.09 ~ 5dB/div
Loss Resolution (dB)	0.001
Readout Resolution (cm)	1
Distance Measurement Accuracy	±(1m + measuring distance x 3 x 10^{-5} + sampling resolution)
Group Refractive Index	1.2000 ~ 1.5999, 0.0001 step

OPTICAL LINK EXPLORER ™ (OLE™)

OLE™ Test is developed using multiple pulse width acquisitions and advanced algorithms to easily and quickly characterize the fiber-under-test and display the events using iconic symbols.

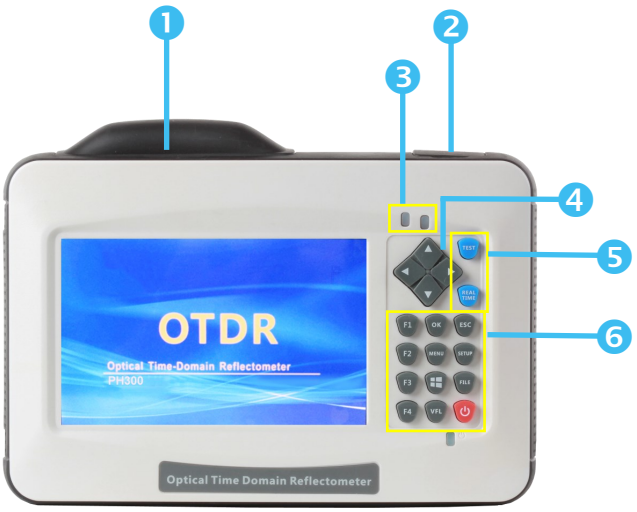
FEATURES

- Complex OTDR results is displayed in easy-to-understand iconic symbols
- Easy to use, single button operation, automatic analysis and intuitive link map display
- Automatic multiple pulse width and wavelength acquisition
- Identify automatically each event on the fiber, including splicing points, macro bends, connectors, optical splitters, etc.



λ Nm	Disctance, km	Sec. Dist., km	Loss, dB	Reflection, dB	Cumul. Loss, dB
1310	1.91	1.91	0.11	-48.26	1.36
1550	1.91	1.91	0.57	-51.26	1.13
1310	2.92	1.01	0.00	-53.00	1.76
1550	2.92	1.01	0.00	-52.36	1.83

STRUCTURE



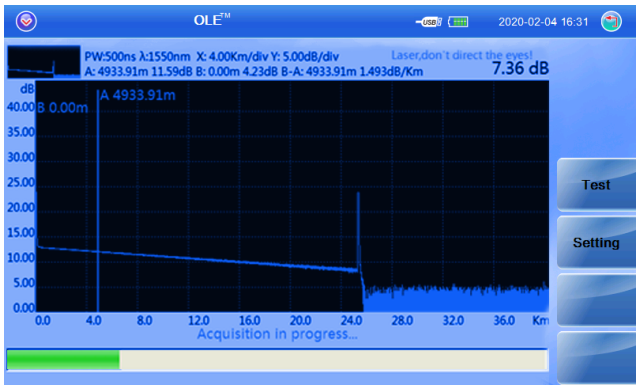
No	Items	Description
1	Port 1	Including OTDR testing port (FC/UPC), VFL Port x 1, Power Meter Port x 1 and touch pen x 1
2	Port 2	Including USB A type×2, micro-USB×1, SD card and charging port
6		ESC: cancel button MENU: back to main menu SETUP: enter testing parameter setting interface FILE: enter file manager : take screen capture : power button

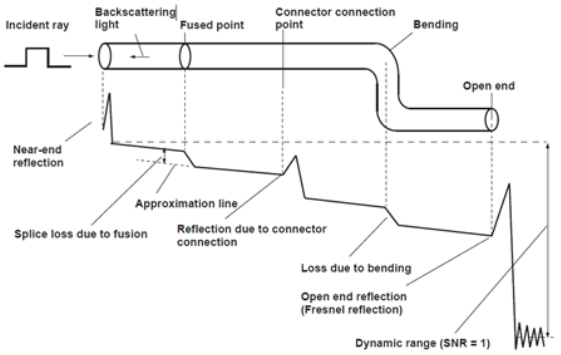
Simple Operation GUI

PH300 series OTDR displays splice loss, connector loss, fiber attenuation, reflection of points, link optical return loss and distance to fiber events etc. User can get the test parameters easily via simplified interface.

Easy Operation

Easy to operate with large 5-inch touch screen and keys





Large Display with Touch Screen

5 inch true color high resolution touch screen is perfect for viewing OTDR testing results. It provides excellent readability for both indoor and outdoor environments.

Reporting Software

Use Data Manager to analyze the traces and produce the reports in softcopy or hardcopy

- Download reference traces and settings from database
- Send measurement result via e-mail

Internal Storage

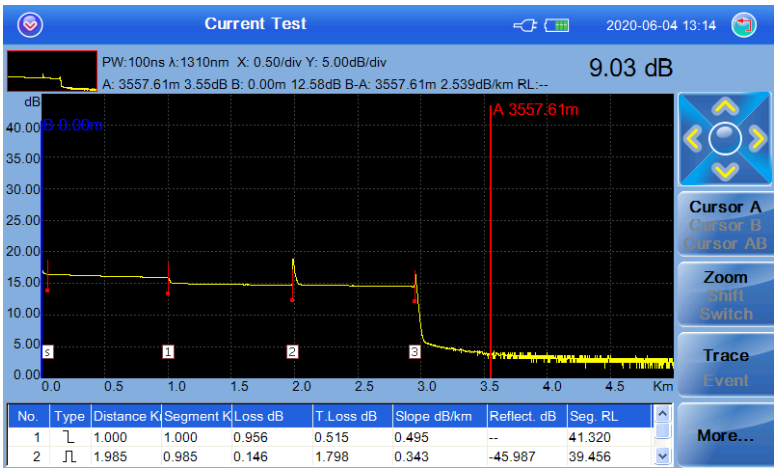
4GB Internal storage can store up to 40,000 OTDR traces.

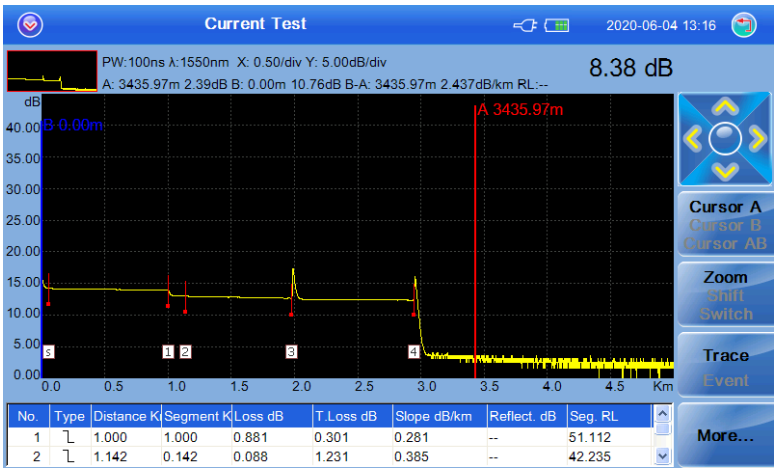
The traces can be transferred to port on PC via USB cable

Compatible Software

- Windows Vista (32/64 bit system)
- Windows 7 (32/64 bit system)
- Windows 8 (32/64 bit system)
- Windows 10 (32/64 bit system)
- Microsoft Office Excel 2007
- Microsoft Office Excel 2010
- Microsoft Office Excel 2013

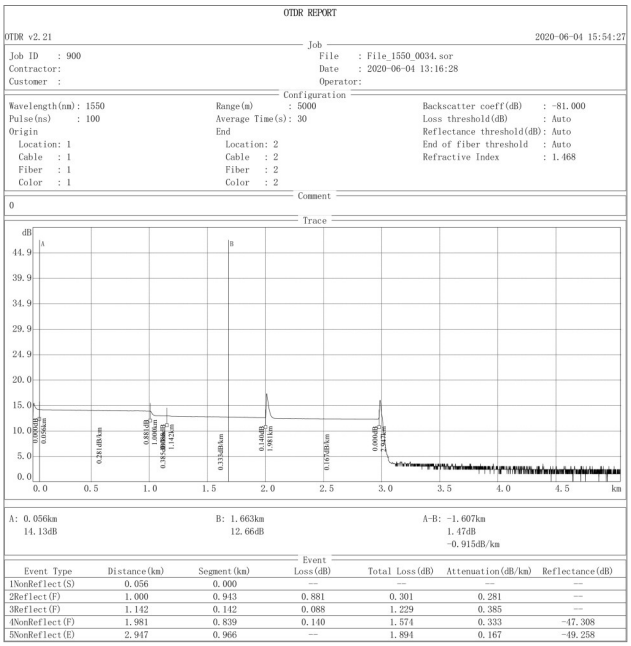
OTDR, PH300 SERIES

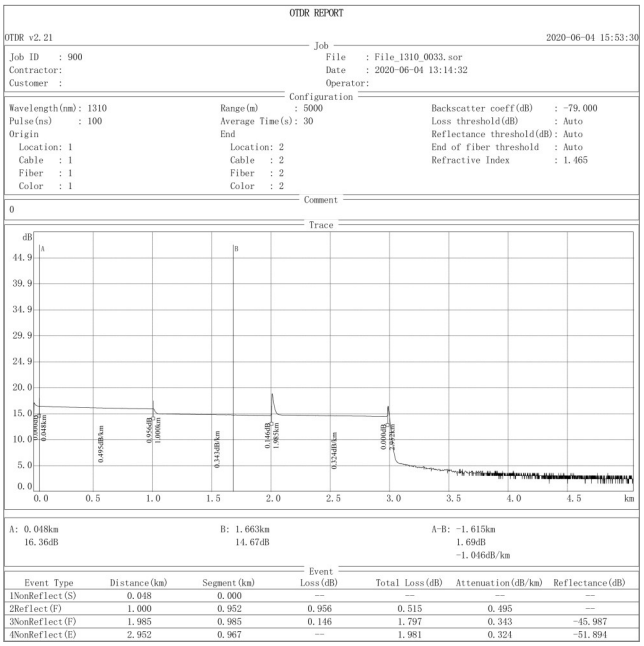




Data Manager Reporting Software

Simplified display style, easy to read, support multi-result printing.





OPM Module	
Wavelength Range (nm)	800 ~ 1700
Calibrated Wavelength (nm)	850/1300/1310/1490/1550/1625/1650
Measurement Range (dBm)	-60 ~ +5
Resolution (dB)	0.01
Uncertainty (dB)	±0.35dB ±1nW
Modulation	270/1k/2k Hz, Pi≥-40dBm
Connector	Universal Adaptor

* Back light off, sweeping halted at 25°C, 6 hr continuous testing (Typical)
** Dynamic range is measured using max pulse width, averaging time 3 minutes, SNR=1; the level difference between the RMS noise level and the level where near end back-scattering occurs.
*** Event dead zone is measured using pulse width of 3ns

Ordering Information

Example : PH300-D26FCU1

PH300 — **D26** — **FCU** — **1**

Dynamic Range	
D26	26dB
D35	35dB

Connector	
FCU	FC/UPC
SCU	SC/UPC
FCA	FC/APC
SCA	SC/APC
XX	Specify

Power Meter	
1	With power meter