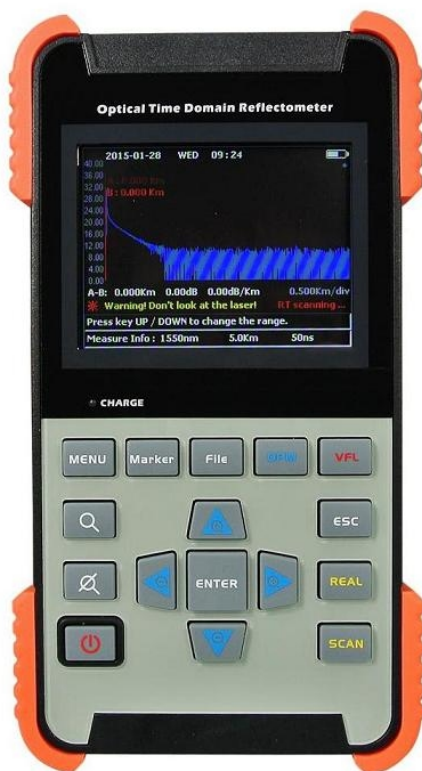# PON ONLINE OTDR

GENERAL DESCRIPTION

This advanced diagnostic tool for optical fibres allows the Fibre Engineer to take a snapshot of a fibre link.
The OTDR sends short pulses of light down one end of a fibre at a specified repetition rate.
Light reflected back from fibre discontinuities and light continuously back scattered from the fibre itself travels back to the OTDR, where the instrument records the optical power and arrival time.
The arrival time of the pulse from a given point in the fibre is related to its distance from the OTDR.
With this information, the OTDR graphically displays returned power versus distance.
OTDRs are well-equipped for troubleshooting problems because they allow you to visually locate reflective events like connections and fibre breaks and non-reflective events like splices and tight bends by studying the graphical trace.
The power difference between two points on the trace is an estimate of optical loss.
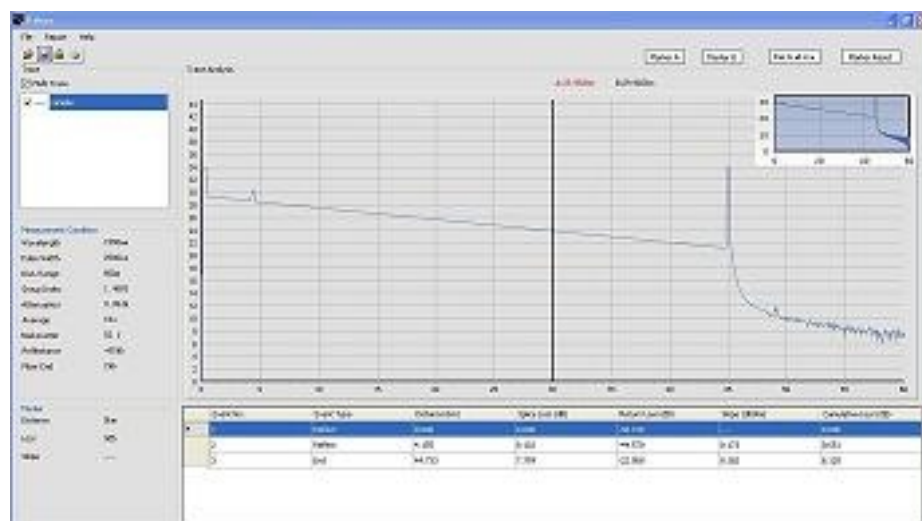

- Automatic one-button testing

- 1310/1550/1625 nm wavelength

- 1625 nm with filter for PON online testing

- PON online test module (1625nm)

- Test through 1*64 PLC splitter in PON test

- Internal memory can store up to 10000 waveforms

- High contrast color TFT LCD

- USB port connect to PC

- Input laser signal auto detection and self-protection function

- Built-in VFL

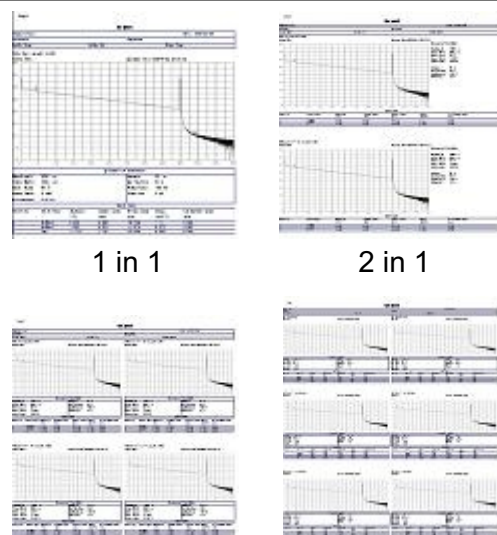- User-friendly OTDR simulation software shows details of events

GLOBAL PORTABLE FIBER OPTIC TEST EQUIPEMNT MARKET MOST SELLING AWARD

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FTTx Test Solutions

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Smart PC Software

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2 in 1

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6 in 1

*.sor

USB

PON Online Testing

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OLT

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1490nm
1625nm
1550nm

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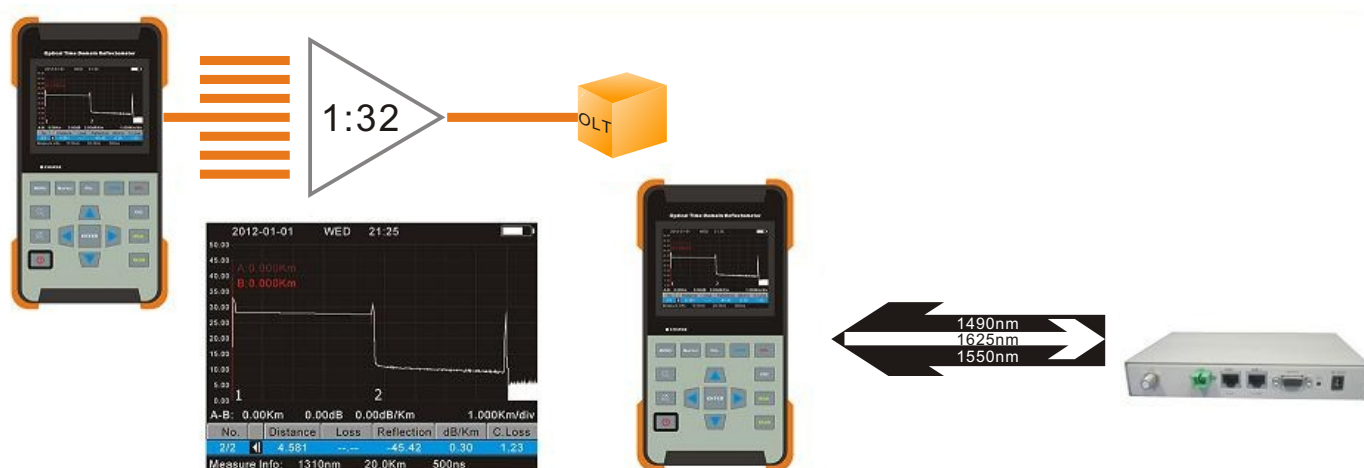
SPECIFICATIONS

Model	AOR500-PB	AOR500-PC
Dynamic Range*	35dB / 34dB / 34dB	38dB / 37dB / 37dB
Max.Distance**	120km	140km
Wavelength	1550/1310/1625nm, 1625nm with filter	
Event Dead Zone***	1.5m	
Attenuation Dead Zone	8.0m	
Pulse Width	10ns, 25ns, 50ns, 100ns, 250ns, 500ns, 1us, 2.5us, 5us, 10us	
Distance uncertainty	$\pm$(0.8m $\pm$ 0.001% * testing distance $\pm$ resolution)	
Loss Resolution	0.001dB	
Min.Distance Resolution	1m	
Connector	FC/PC (1310/1550), FC/APC (1625) interchangeable adapter (optional: SC,ST,LC interchangeable adapters)	
VFL	1mW	
Data Storage	> 10000 traces (standard 1GB SD card)	
Display	3.5 inch TFT color LCD	
Interface	USB	
Battery	Built-in rechargeable battery	
Working Time	>10 hrs (Bellcore TR-NWT-001138)	

* pulse width 10us, average time>5 minutes, SNR=1, 23℃ $\pm$2℃
** at 1550nm, one fiber without adapter and splicing connection inside
*** pulse width 10ns, terminal refection loss>40dB

GENERAL SPECIFICATIONS

Size(H*W*D)	197mm * 107mm * 67mm
Weight	About 750g
Storage Temperature	-20 -- +60 ℃, < 90%RH
Operating Temperature	-10 -- +50 ℃, < 90%RH

ACCESSORIES

Standard	Optional:
AC/DC adapter with power cord *1	SC interchangeable connector *1
Operation guide *1	ST interchangeable connector *1
Carrying bag *1	LC interchangeable connector *1
Certificate of Calibration *1	
USB cable *1	
SD card *1	

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