



OFT-1120A PON Power Meter

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OFT-1120A is a tester specially designed for FTTx/PON passive optical network testing, which can be connected to OLT and ONT so as to realize online synchronous measurement and display of optical signal. It is helpful assistant of PON network engineer technicians for field testing. This product is applied to the deployment and maintenance of EPON/GPON networks and services.

□ Functions

- Test three wavelength signal including 1490nm, 1550nm, 1310nm
- 1310nm wavelength upstream burst signal testing
- Dual-port design for pass through mode, support online monitoring and termination measurement
- Provide ten groups of threshold selection, pass/ alarming/fail, three indicators are correspondent with tested optical line status
- Built-in 500 records and upload via USB port
- Others
 - Real-time clock
 - Sound and LED alarm indication
 - Auto power-off
 - Auto turn off backlight
 - Battery indication
 - Software online upgrade



□ Features

- TFT true color display, touch screen operation
- Graphical interface, one interface can display all measurement results
- Analyze pass/alarming/fail conveniently through multiple user adjustable threshold values for every wavelength, and provide ten groups of predefined user adjustable values
- Power values adapt green/yellow/red to distinguish pass/alarming/fail status
- Built-in large capacity Li-ion battery, ultra long operation time

□ Applications

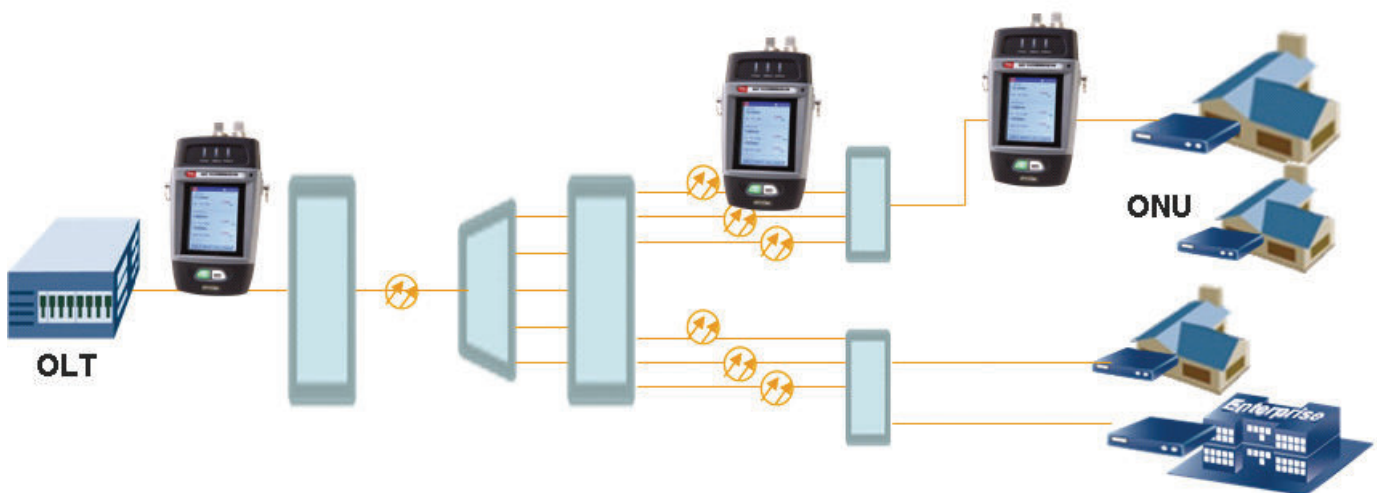
FTTx/PON deployment

During opening phase, measure all PON signal, verify and ensure to meet network standards

FTTx/PON maintenance

Various transportation problems in daily maintenance, for example, contaminated end face, fiber macro bending and fracture, optical transceivers fault etc

Make an easy evaluation for optical power in any place of whole network from OLT to ONT



□ Specifications

General	
Size	146×87×50mm
Weight	400g
Display	320 × 240 TFT true color, touch screen
Operation mode	touch screen and keyboard
Optical fiber type	SM 9/125um
Optical fiber connector	2.5mm any standards
Interfaces	Optical interfaces 2, USB 1, DC power 1
Battery	Li-ion
Charging time	4 hours
Operation time	>50 hours
Operation temperature	0°C to 50°C
Storage temperature	-20°C to 70°C
Operation humidity	10% to 90%
Storage humidity	5% to 95%
Resolution	0.01dB
Data storage space	500 records

Testing - 1310nm Upstream	
Spectral passband	1260nm~1360nm
Measurement range	-36dBm~+10dBm
Max input power	+15dBm
Isolation (1490/1550nm)	>40dB
Burst testing	Error<1dB

Testing - 1490nm Downstream	
Spectral passband	1480nm~1500nm
Measurement range	-50dBm~+10dBm
Max input power	+15dBm
Isolation (1310/1550nm)	>40dB

Testing - 1550nm Downstream	
Spectral passband	1530nm~1570nm
Measurement range	-45dBm~+25dBm
Max input power	+25dBm
Isolation (1310/1490nm)	>40dB

Measurement Precision	
Fixed uncertainty	±0.5dB
PDL	<±0.25dB
Linearity	±0.1dB
Throughput insertion loss	<1.5dB

