JILONG
Since 1993



10G PON Power Meter OPN-43X

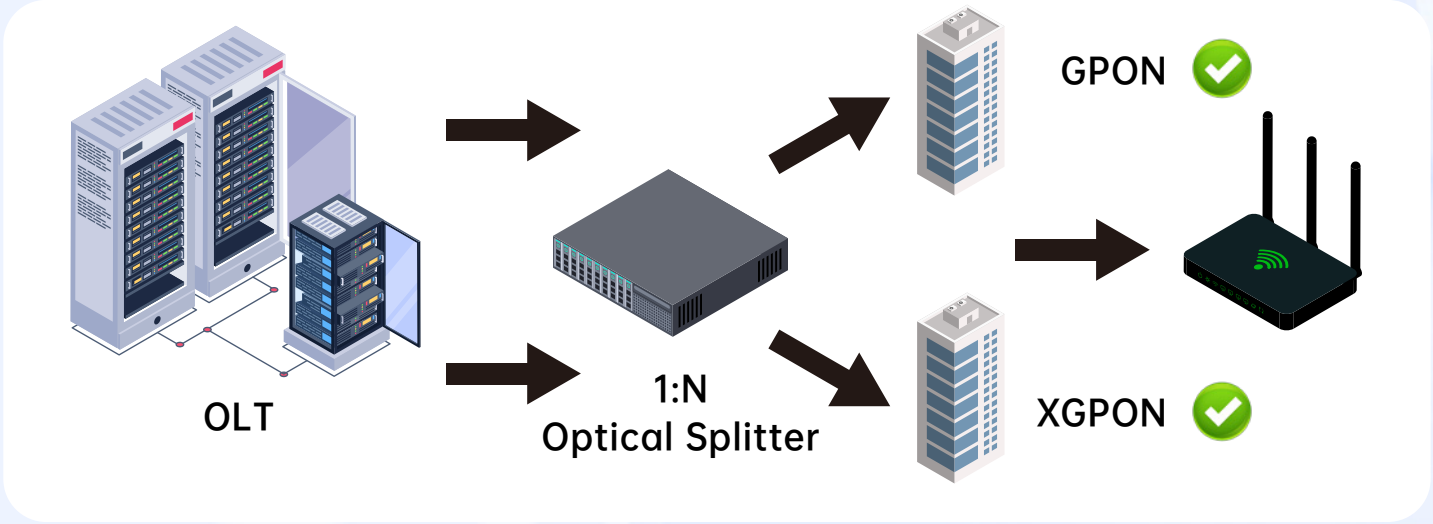
- 4.3-inch touch screen
- 5-Wavelength simultaneous testing
- Automatic ONT/ OLT wavelength detection
- RJ45:Wire sequencing & Cable tracing
- 5000mAh high-capacity battery
- Built in flashlight

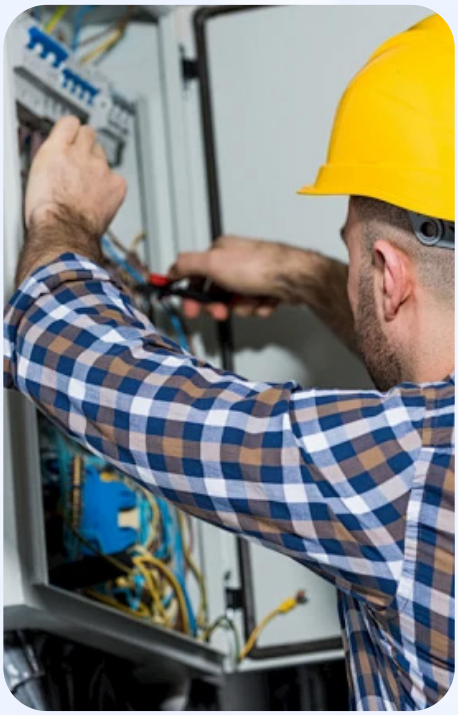
10G PON Power Meter

10G PON power meter delivers simultaneous multi-wavelength (1270nm、1310 nm、1490nm、1550 nm、1577nm) measurement, clear Pass/Warn/Fail assessment, and fast field testing(Supports 10G PON (10G-EPON, XG-PON, XGS-PON and RF Networks)—the essential tool for installing and maintaining next-generation fiber access networks.

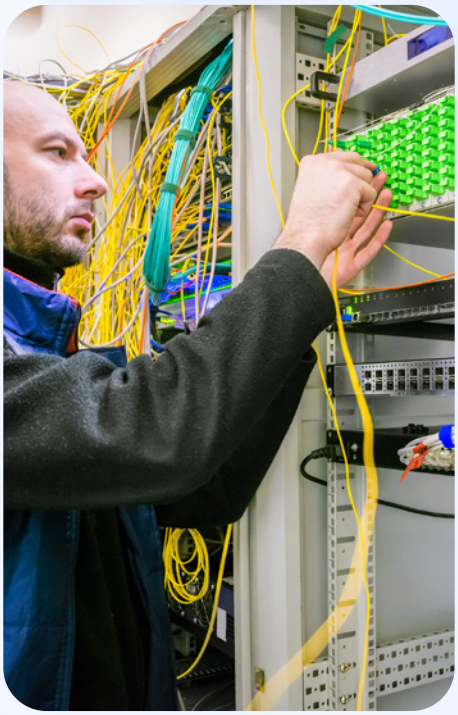
Application scenarios

Applicable to EPON/GPON and 10G PON networks. Supports precise power measurement for OLT (1490 nm, 1550 nm, 1577 nm) and ONT (1270 nm, 1310 nm) wavelengths.





Field Installation & Maintenance



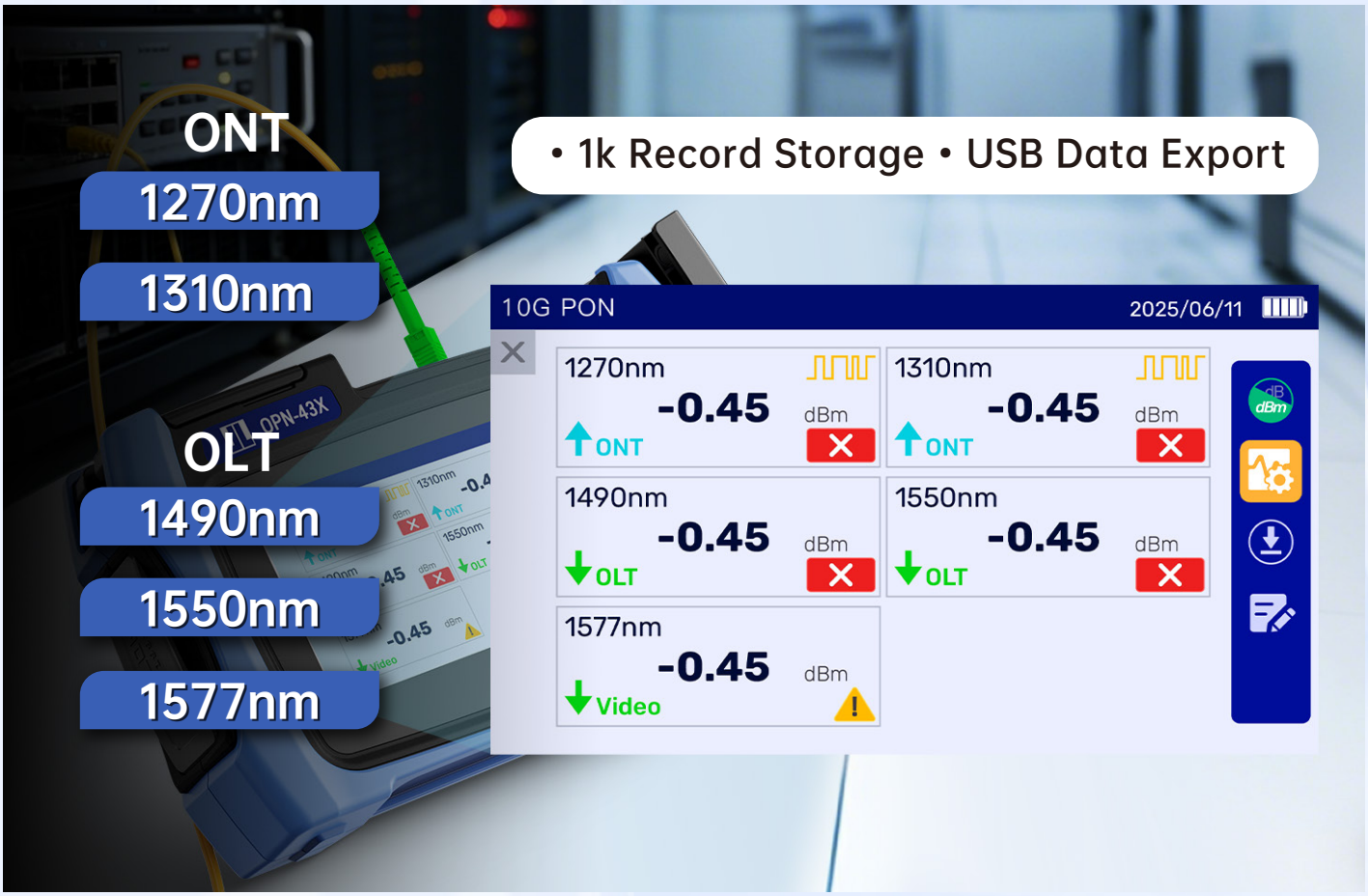
Network Troubleshooting



Equipment Monitoring

Simultaneous 5-Wavelength Testing

One tool, all your optical tests.（FTTH Installation，Module Testing，System Maintenance）.



4.3-inch Touch Screen

Advanced touch control adapts to any scenario, making expert-level operation accessible to all.



RJ45:Wire sequencing & Cable tracing

Stop guessing.Instantly identify cable issues and solve network problems.



Measure with Speed, Precision, and Reliability

Power values can be easily assessed from any network location, with all 10GPON signals measured and displayed, including voice, data, and video filtering capabilities.



User-initiated Calibration

Calibrate on-site. Guaranteed accuracy. Assured network quality.



Threshold Settings

Set up 1 threshold groups to analyze and display Pass / Fail stat.



Type-C Charging

Universal power. Unpacked convenience.



5000mAh High-capacity Battery

No matter the environment. No interruptions to your work.



Built-in lighting for easier operation

High-brightness built-in work light.
Enables effortless cable work in low light.



All-Body Shock-Absorbing Rubber Casing

Rubber design reduces shock, falls, and bumps, protecting the machine.



Hidden Holder Design

Tackle handheld inaccuracy. Boost your efficiency. Minimize operator fatigue.



Product Configuration

① Carrying Case x1

② OPN-43X x1

③ Power Cord x1

④ RJ45 Remote Module x1

⑤ Shoulder Strap x1



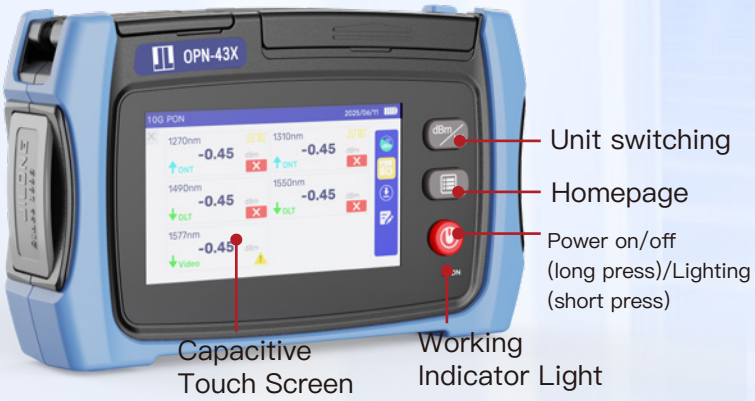
Product Display

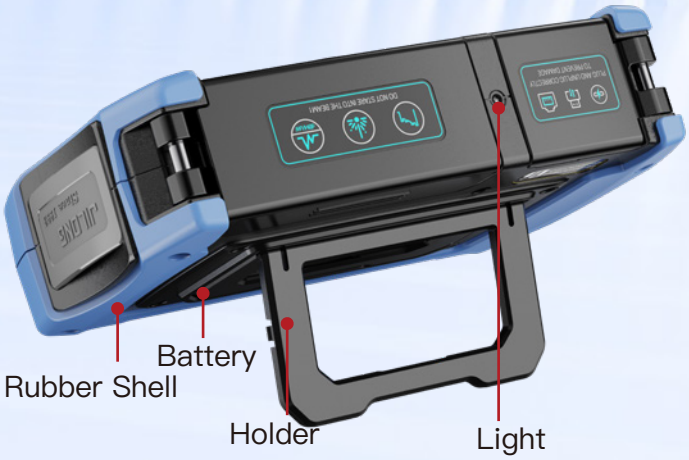
Front

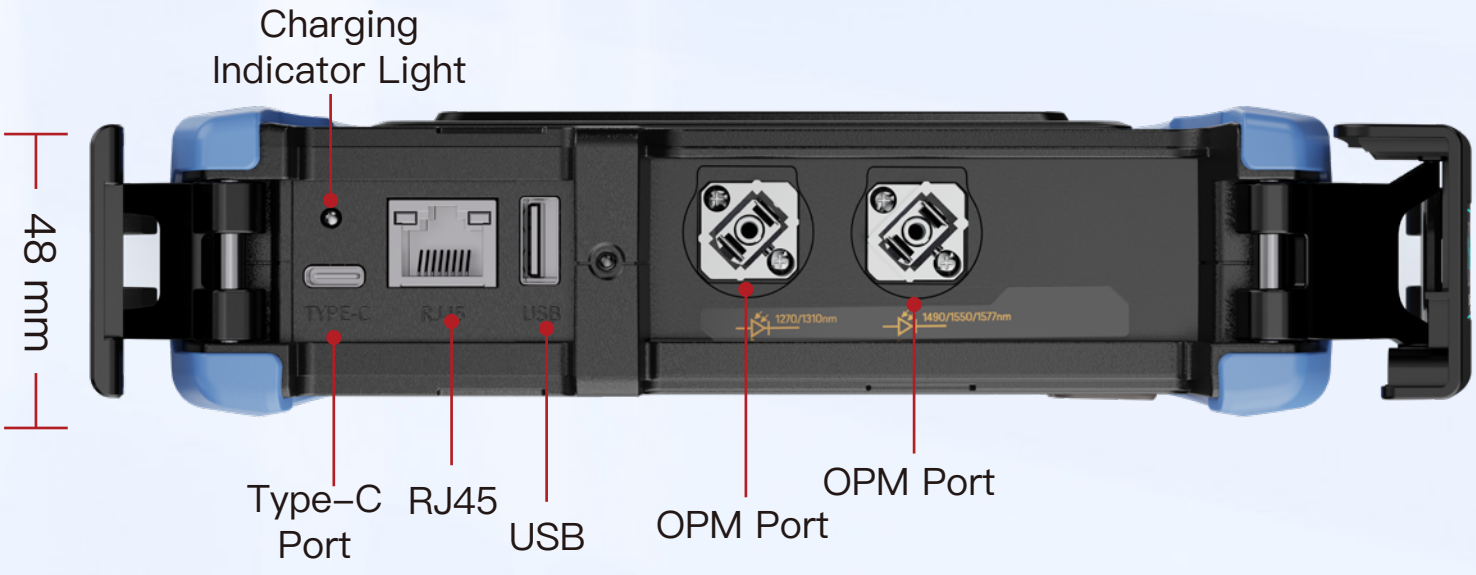


Back









Parameters

	ONT		OLT		
Test Wavelength	1270nm	1310nm	1490nm	1550nm	1577nm
Spectral Passband	1260~1280(nm)	1290~1330(nm)	1480~1500(nm)	1540~1560(nm)	1573~1590(nm)
Power Test Range	-35~+10(dBm)		-40~+10(dBm)	-40~+25(dBm)	-45~+10(dBm)
Isolation with Filtering Function	1310nm Band >30dB	1270nm Band >30dB	1270n Band >40dB		
	1490nm Band >40dB		1310nm Band >40dB		
	1550nm Band >40dB		1550nm Band >30dB	1490nm Band >30dB	1490nm Band >40dB
	1577nm Band >40dB		1577nm Band >40dB	1577nm Band >30dB	1550nm Band >30dB
Burst Measurement Range	-35~+10(dBm)		×		
Maximum Input Power	10dBm		10dBm	25dBm	10dBm
Burst Measurement Error	<±0. 5dB		×		
Burst Test Function	CO to ONT				
Power Uncertainty	±0.2dB				
Power Stability	±0.1dB				
Through-Mode Insertion Loss	<1.5dB				
Inherent Uncertainty	0.25dB±1nW@1550nm				
Threshold Group	1 Configurable threshold groups				

OPM Module					
Test Wavelength	1270nm	1310nm	1490nm	1550nm	1577nm
Test Range	-35~+10(dBm)		-40~+10(dBm)	-40~+25(dBm)	-45~+10(dBm)
Calibration Wavelength	1270/1310/1490/1550/1577				
Power Uncertainty	0.2dB				

Network Testing (Built-in)	
Supported Cable Types	CAT5 | CAT6
Cable Length	300 m
Max. Cable Tracing Distance	300 m

General Parameters	
Pass/Fail Display	10min
Language	English, Chinese, Spanish, French, Portuguese, Russian, Thai, Korean
Optical Fiber Port	APC-SC
Display Screen	4.3-inch color LCD display screen
Port	Charging Port x1, USB 2.0x1, RJ45x1
Working Temperature	-10~50°C (0-40 ℃ for use with power, 0 to 35 ℃ battery charging)
Storage Temperature	-20 to 60°C
Height	4000 m
Humidity	0 to 90% RH
Power Mode	5V，3A(DC Adapter)
Battery	3.7V, 5000mAh, ⩾18.5Wh
LED Lighting	Light Intensity >15000mcd
Data Storage	Memory: 1000 power measurement records . External Storage: USB
Size	179 mm (W)x112 mm (H)x 48 mm (D)
Weight	0.6 kg(Unit + Battery)

Note: All specifications are based on measurements with a new battery at 23°C ± 2°C.

Contact us

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