JILONG
Since 1993



OPM-43F

WDM Power Meter

4.3-inch touch screen

5000mAh high-capacity battery

User-Initiated Calibration

GPON OLT Downstream Wavelength Simultaneous Measurement and Display

OPM-43F WDM Power Meter

The **OPM-43F** is a portable optical power meter specifically designed for PON networks, primarily used for the installation, maintenance, and troubleshooting of FTTH fiber access networks.

Beyond standard power meter functions, it features optical filtering and isolation capabilities. It can simultaneously measure the optical power of both GPON OLT wavelengths (1490nm and 1550nm) and display the results separately. This prevents test inaccuracies caused by multi-wavelength signal interference, enabling precise assessment of fiber link quality.

7 Wavelengths Available Genal wavelengths for PON and OPM

7 Calibration Wavelengths

1270/1310/1490/1550/ 1577/1625/1650nm

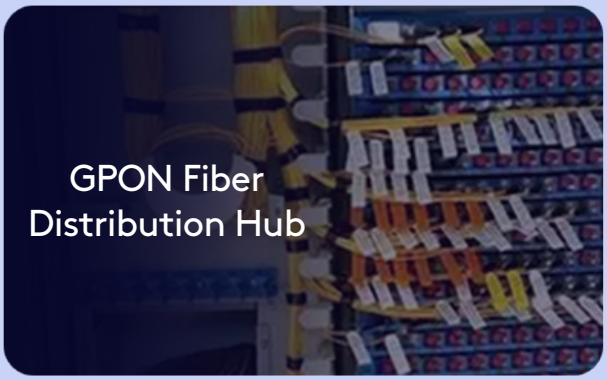
PON **Covers GPON**

Dual-Wavelength (1490/1550nm) simultaneous measurement & display

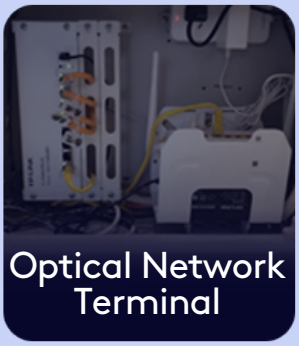
Press the Wavelength Button Switch Wavelength



PON OLT Optical Power Simultaneous Measurement & Display









4.3" Capacitive Touch Screen

Big Screen. Smart Touch.



User-initiated Calibration

No More Shipping for Calibration. Just Precision.



Note:
The calibration interface does not support wavelength switching. Please exit the calibration interface to switch wavelengths. Simultaneous calibration of dual wavelengths is not supported. Please calibrate them separately.

High-Capacity Storage Export data easily via USB

Saves 100 test points per wavelength. Click λ 1490+1550nm to switch between wavelengths.



RJ45 Network Test

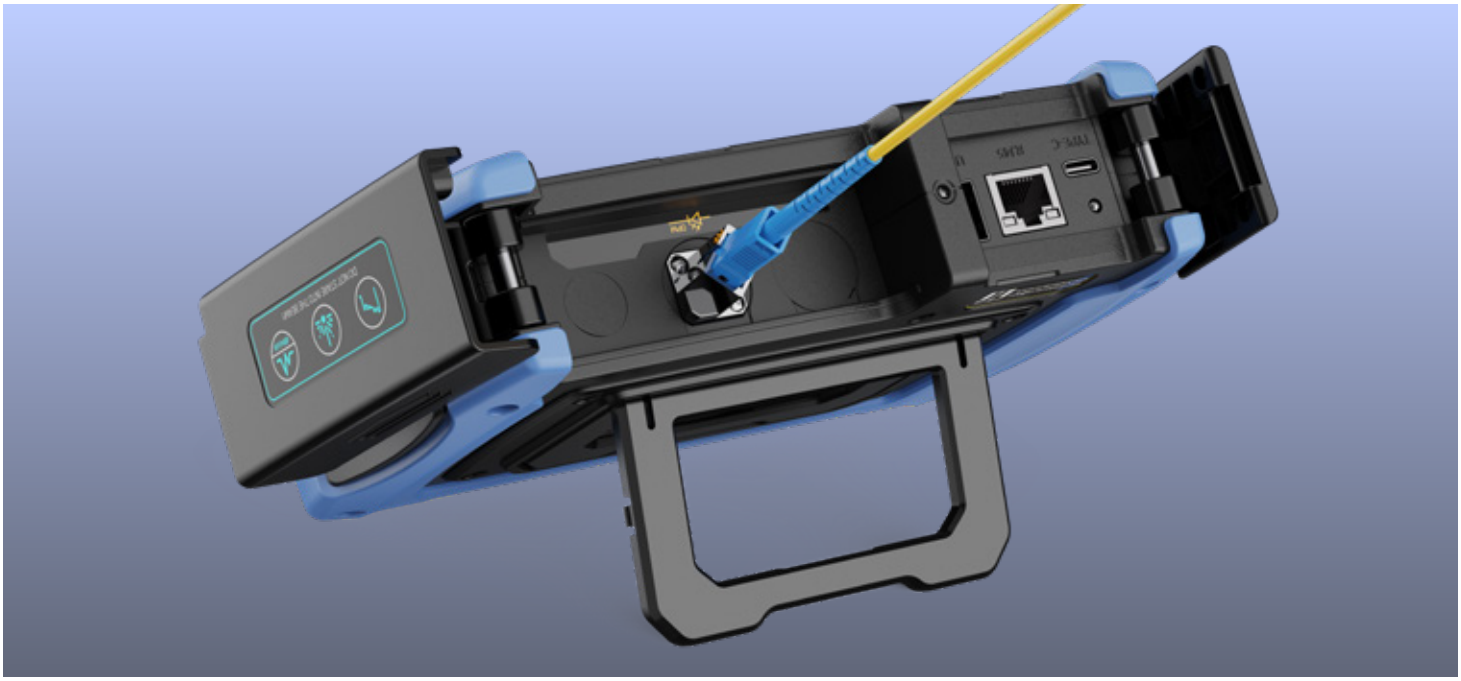


LED Lighting

High-brightness work light. Effortless work in low light



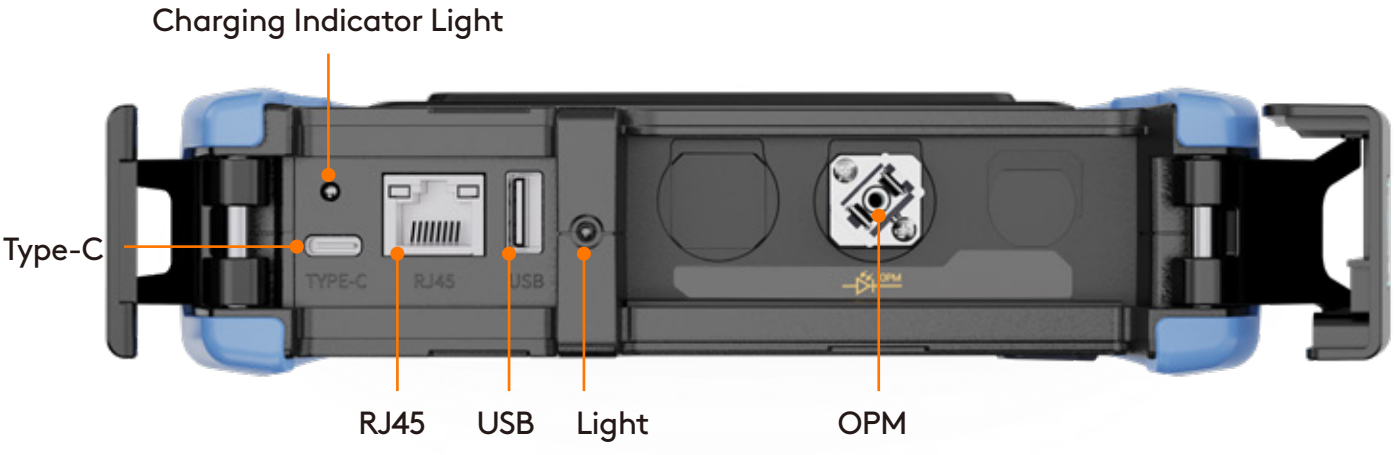
SC Standard Port



Instructions







Product Configuration

① Carrying Case x1

② OPM x1

③ Power Cord x1

④ RJ45 Remote Module x1

⑤ Shoulder Strap x1



Parameters

WDM Power Meter

Scope of Application	GPON	
Test Wavelength (nm)	1490nm	1550nm
Spectral Passband (nm)	1270~1520 (nm)	1530~1650 (nm)
Isolation	1550nm Band >35dB	1490nm Band >35dB

OPM

Scope of Application	SM
Test Wavelength (nm)	1270-1650 (Simultaneous Measurement and Display)
Calibration Wavelength (nm)	1270/1310/1490/1550/1577/1625/1650
Power Test Range (dBm)	-50 ~ +6
Display accuracy（dB)	0.01
Accuracy（dB)	±0.2
Insertion Loss in Through Path (dB)	<1.5
Power Stability（dB)	±0.1

RJ45

Wavelength (nm)	CAT5、CAT6
Distance of Cable Collationl	300m
Distance of emitting signal	300m

General Parameters

Language	English, Chinese, Spanish, French, Portuguese, Russian, Thai, Korean
Optical Fiber Port	SC/UPC
Display Screen	4.3-inch color LCD display screen
Port	Charging Port x 1, USB 2.0 x 1, RJ45 x 1
Working Temperature	-10 ~ 50℃ (0-40 ℃ for use with power, 0 to 35 ℃ battery charging)
Storage Temperature	-20 ~ 60℃
Height	4000 m
Humidity	0 ~ 90% RH
Power Mode	5V, 3A (DC adapter)
Battery	3.7V, 5000mAh, ≥18.5Wh
Auto Power-Off Time	10min
LED Lighting	Light Intensity>15000mcd
Data Storage	Saves 100 test points per wavelength； External Storage: USB
Size	179 mm (W) × 112 mm (H) × 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.

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