



JILONG
Since 1993



Optical Multimeter

FOT-33



4.3-inch
touch screen



Built-in
OPM



Built-in
VLS



Built-in
RJ45



9 Calibration
Wavelengths Available



5000mAh high-
capacity battery

◆ Optical Multimeter

The Optical Multimeter is an integrated fiber optic test instrument that combines an optical power meter and a stable light source. It is primarily used for measuring optical power loss in fiber links and evaluating optical signal quality. By delivering both light source output and power measurement in a single unit, it serves a wide range of applications—from telecom backbone networks and residential broadband to medical devices and research laboratories. With its precision measurement and user-friendly operation, the optical multimeter ensures efficient and stable optical signal transmission even in complex environments, making it an indispensable tool in the optic communication industry.

◆ Application scenarios



Structured Cabling System



Telecommunication Network Deployment



Cable Installation and Maintenance

◆ 4.3-Inch Touch Screen

Swipe to switch functions—3x faster than traditional buttons. The display remains clearly visible even in direct sunlight.



◆ 9 wavelengths to meet your requirements

【λ】 : Switch between 9 wavelengths with one key. A single tool that doubles efficiency by meeting all your cross-scenario needs.



◆ Modulated Carrier Output

Triple-frequency modulation (270Hz/1kHz/2kHz) ensures zero-interference testing in complex environments.



◆ RJ45: Wire sequencing & Cable tracing

Pinpoint every hidden flaw to build and maintain networks with greater efficiency.



◆ User-initiated Calibration

No More Ship-and-Wait. Just immediate diagnostics and controlled costs.



◆ 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.



◆ Interchangeable Universal Port Design *(Supports SC Adapter)*

Designed to sustain peak performance by cutting avoidable return costs and unplanned downtime.



◆ Supports SC/FC adapters



SC(Standard)



FC(optional)

◆ Product Configuration

- ① Carrying Case x1
- ② FOT x1
- ③ Power Cord x1
- ④ RJ45 Remote Module x1
- ⑤ Shoulder Strap x1



◆ Product Display

Front



Back





Parameters

OPM	wavelength range	850~1650(nm)
	Test Wavelength	850/1270/1300/1310/1490/1550/1577/1625/1650(nm)
	Power Test Range	-70~+6(dBm)
	Uncertainty	<(± 0.2 dB or $\pm 5\%$)
	Power Stability	± 0.1 dB
	resolution	0.01dB
	User-independent calibration	✓
VLS	Wavelength(nm)	1310/1550
	Spectral width (nm)	≤ 5
	Output power	≥ -1 dBm
	Output stability	± 0.05 dB/15min, ± 0.2 dB/8h
	Modulation frequency	CW, 270Hz, 1kHz, 2kHz
RJ45 Networks Test	Wavelength (nm)	CAT5, CAT6
	Distance of Cable Collationl	300m
	Distance of emitting signal	300m

General Parameters	Auto Power-Off Time	10min
	Language	English, Chinese, Spanish, French, Portuguese, Russian, Thai, Korean
	Optical Fiber Port	SC/UPC (FC/UPC Optional)
	Display Screen	4.3-inch color LCD display screen
	Port	Charging Port x1, USB 2.0 x1, RJ45 x1
	Working Temperature	-10~50 ℃ (0 to 40 ℃ for use with power, 0 to 35 ℃ battery charging)
	Storage Temperature	-20~60℃
	Height	4000 m
	Humidity	0to 90% RH
	Power Mode	5V , 3A (DC adapter)
	Battery	3.7V, 5000mAh, ≥18.5Wh
	Lighting	Light Intensity >15000mcd
	Data Storage	Memory: Each wavelength can store 100 pieces of data; External Storage: USB
	Size	179 mm (W)x 112 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

Nanjing JILONG Optical Communication Co., Ltd

Add: No. 8, Huyue East Road, Longchi Street, Liuhe District, Nanjing, China

Web: www.JILONGOT.com

Mail: info@jilongot.com

TEL: +86 400 883 6695

