50G PON Power Meter

Variants

PON-100G

Details

The **50G PON Power Meter** is a professional optical test instrument designed for installation, maintenance, and troubleshooting of modern PON networks. It supports multi-wavelength optical power measurement for next-generation PON systems, including **GPON, XG-PON, XGS-PON, and 50G PON network environments**.

With support for **1270nm, 1286nm, 1310nm, 1490nm, 1342nm, and 1577nm** wavelength testing, built-in data storage, high display resolution, and optional 10mW / 20mW VFL, this meter is suitable for telecom operators, ISPs, FTTH technicians, and fiber maintenance teams.

Wavelengths	**6 Types**
Test Range	**-40 ~ +10 dBm**
VFL Power	

10 / 20mW

Storage

999 Records

Key Features

? Designed for 50G PON and Next-Generation PON Testing

? Supports 1270 / 1286 / 1310 / 1490 / 1342 / 1577nm Wavelengths

? Optical Power Test Range: -40 ~ +10 dBm

? APC Connector Standard, PC Optional

? Measurement Units: dB / dBm / mW / µW / nW

? 0.01 dB Display Resolution

? Built-in 10mW / 20mW Visual Fault Locator

? Stores up to 999 Test Records

Wavelength & Optical Parameters

Parameter	1270nm	1286nm	1310nm	1490nm
Spectral Bandwidth	1260 ~ 1280nm	1284 ~ 1288nm	1300 ~ 1320nm	1480 ~ 1500nm

Parameter	1270nm	1286nm	1310nm	1490nm
Test Range	-40 ~ +10 dBm			
Optical Isolation	>30 @1286 / >30 @1310 / >40 @1490 / >40 @1577 / >40 @1342	>30 @1270 / >30 @1310 / >40 @1490 / >40 @1577 / >40 @1342	>30 @1270 / >30 @1286 / >40 @1490 / >40 @1577 / >40 @1342	>40 @1270 / >40 @1286 / >40 @1310 / >40 @1577 / >40 @1342

Optical Specifications

Connector	APC Standard / PC Optional
Measurement Unit	dB / dBm / mW / µW / nW
Display Resolution	0.01 dB
Power Uncertainty	±0.5 dB
Linearity	±0.1 dB / 10 dB
Channel Insertion Loss	1.5 dB
Data Storage	999 Records

Visual Fault Locator (VFL)

Output Power	10 / 20 mW
Connector	FC / SC

Wavelength	650 ±10 nm
Modulation	CW / 2Hz

General Parameters

Working Temperature	-10°C ~ +60°C
Storage Temperature	-25°C ~ +70°C
Humidity	0% ~ 80%
Auto Shutdown	5 ~ 90 min Adjustable
Power Supply	3 × AA Battery / 8.4V Adapter
Working Time	>32h Working / >60h Standby
Dimensions	76 × 177.5 × 40 mm
Weight	0.28 kg

Applications:

50G PON Network Testing • GPON / XG-PON / XGS-PON Maintenance • FTTH Installation • ISP Field Testing • Telecom Optical Network Testing • OLT / ONU Signal Verification • Fiber Troubleshooting

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