

FB-50B1-V

Optical Power Meter

FOBER
INTERNATIONAL



Product Overview:

FB-50B1-V handheld optical power meter has compact size and high reliability. It can make accurate measurement on seven operating wavelengths (850/980/1300/1310/1490/1550/1625nm). It's constantly used in measurement upon active and passive optoelectronic devices, such as fiber, laser diode and transmitter.

Product Features:

- Photo detector of large sensitive area, which is easy to clean.
- Fast conversion and high refresh rate, up to 20Hz.
- High sensitivity, up to -70dBm (Type A) and -50dBm (B type).
- 2pcs of AA battery as power supply.

Technical Specifications:

Parameter	Unit	Value
Model		FB-50B1-V
Operating Wavelength	nm	850, 980, 1300, 1310, 1490, 1550, 1625
PD Material		InGaAs
PD Sensitive Area	mm	φ 1
Measurement arrange	dBm	+30~-50 @ 1550nm
Accuracy		5%
Unit		dB/dBm/xW
Resolution		0.01
Refresh Rate	Hz	20
Power Adapter		Input: AC 100~240V 50/60Hz Output: DC 5V/1A
Operating Temp.	℃	-10~+50
Storage Temp.	℃	-20~70
Storage Humidity		90%RH
Fiber Adapter		FC/SC/LC/2.5mm Universal/1.25mm Universal
Dimension	mm	188x80x35 (LWH)
Weight	g	320 (including battery, but no other accessories)

Warning: Battery and power adapter may be used at the same time. If so, the meter will prefer to use the power adapter and preserve the battery.

Front Panel:



NO.	Item	Description
1	850nm、980nm、1300nm 1310nm、1490nm 1550nm、1625nm	Current operating wavelength.
2	REF	Flag of reference value
3	270Hz 1KHz 2KHz	Frequency of input signal
4	mW uW dB dBm	Displaying unit
5		Flag of auto-off function selected.
6		The sign of external power source.
7		Battery volume remained.
8	AUTO	Alternate the auto-off function by pressing shortly when meter is power on . Turn on/off the meter by pressing long .
9	SET	Display reference value by pressing shortly. Set current measurement result as reference value by pressing long .
10		Switch operating wavelength.
11		Switch unit.
12	VFL	Alternate LCD backlight by pressing shortly. Alternate the VFL by pressing long(only when the VFL option is selected).

Back Side:



Routing Maintenance:

1. Please power off after operation. Dust-cap should be covered and the meter be placed in a dry environment.
2. Battery should be taken out if leaving unused for a long time, for avoiding corrosion.
3. In order to avoid causing the permanent damage, please use the matching products.
4. Constantly cleaning of optical adapter is recommended.
5. Calibration is needed per year to guarantee good accuracy.
6. Please no disassembling without permission, which would lead to invalid maintenance period.

Standard Configuration:

No	Item	Model	Quantity	Description
1	OPM	FB-50B1-V	1	Main
2	SC adapter		1	Accessory
3	Black Backpack		1	Accessory