

LIT-100 10G PON Power Meter

Product Overview

The LIT-100 10G PON Power Meter can perform in-service testing of all PON signals (1270/1310/1490/1550/1577nm) on any network location.

It features a Pass-through design, Burst mode and Pass/Fail assessment indication function, which can help the technician qualify, activate and troubleshoot B-PON, E-PON, G-PON and next-generation, high-speed 10G PONs such as XG-PON and 10G-EPON networks.



► Pass-Through Simultaneous Measurement and Display of All PON Signals

The LIT-100 operates as a pass-through device, capable of being connected at any point between the OLT and ONU. It extracts a small percentage of optical signals for analysis, allowing for the simultaneous measurement of all wavelengths without disrupting network services.

Pass-Through Connection:

Enables simultaneous measurement of all PON signals.

Filtered Detectors:

Measures individual signals at each wavelength.

Upstream Signal Burst Mode Detection:

Detects upstream signals at 1270nm and 1310nm.

► User-Defined Threshold Sets

The LIT-100 allows for custom threshold settings, with each set comprising five wavelengths (1270nm, 1310nm, 1490nm, 1550nm, and 1577nm) and their respective Pass/Fail thresholds. These configurable values facilitate the assessment of fibres, components, and test points within the network.



Specifications

MODEL	LIT-100				
10G PON Power Meter					
Calibrated Wavelength(nm)	1270	1310	1490	1550	1577
Measurement Range(dBm)	-40 ~ +10(1)	-40 ~ +10(1)	-40 ~ +12	-40 ~ +25	-40 ~ +25
Spectral Passband (nm)	1260 ~ 1280	1300 ~ 1320	1475 ~ 1505	1540 ~ 1560	1567 ~ 1587
Power Uncertainty	≤ 0.5				
Display Resolution(dB)	0.01				
Insertion Loss(dB)	≤ 1.5				
Data Storage	>2000 records				
Number of Optical Interface	2 (OLT, ONU)				
Optical Connector	FC/UPC (Interchangeable SC/ST/LC, UPC or APC end face)				
Visual Fault Locator					
Output Power	≥ -3dBm				
Detecting Range	5Km				
Optical Connector	Universal 2.5mm				
General Specification					
LCD Display	5-inch TFT LCD(800*480 pixels)				
Data Interface	Micro USB				
Battery Type	Rechargeable Lithium Battery(7.4V, 5200mAh)				
Battery Life	≥6 hours				
Power Supply	AC/DC Adaptor, Input 100 ~ 240VAC, 50-60Hz; Output 13.8V, 1.2A				
Operating Temperature	-10°C ~ 50°C				
Storage Temperature	-20°C ~70°C				
Relative Humidity	0 ~ 95% (Non-Condensing)				
Size	190(H)*130(W)*65(D)mm				
Weight	800g				

* Specifications subject to change without notice

Note:

(1) Burst mode measurement range at 1270nm/1310nm: -30 ~ + 10dBm.

