FX50

Optical Loss Test Set (OLTS)

Premium, multi-function tester to measure Power, bi-directional Loss and Optical Return Loss (ORL) on fiber optic systems.

This compact, handheld and robust device is ideally suited for a variety of test applications for todays' Telco, FTTx and PON access networks.

Key Features

- High-power InGaAs detector integrated into the front panel adaptor
- Laser source (up to 3 wavelengths) with internal power meter (6 calibrated wavelengths)
- Fully automated bi-directional loss testing for up to three wavelengths in < 10 seconds
- Optical Return Loss (ORL) meter
- Visual Fault Locator (VFL)
- PONT mode to measure 1490 and 1550 nm PON ONT wavelengths simultaneously
- Frequency detection for fiber identification
- Interchangeable optical adaptors for OPM and OLS
- Rechargeable LiIon battery with > 80 hours operation
- Client USB software for data transfer, remote control
- Single mode or multimode options
- Advanced Test Result Saving
- Rugged, pocket-sized form factor

Fiberizer™ Cloud

Fiberizer Cloud, powered by Optixsoft, empowers the FX50 Optical Loss Test Set and the workforce. Going beyond traditional OLTS reporting methods, test results can be transferred easily from the unit to a PC via USB connection and uploaded to Fiberizer Cloud. This cloud-based solution provides superior centralized test data management capabilities and is a full online web service allowing you to work from almost anywhere, at any time.

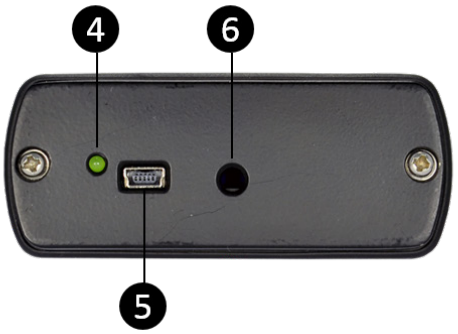
Add value with
Fiberizer Cloud
www.fiberizer.com

Product Overview

1 Test Port 1 - Visual Fault Locator
650 nm laser with universal 2.5 mm connector

2 Test Port 2 – Loss/ORL Testing
Light source, internal power meter, Optical Return Loss,
Bi-directional loss testing for up to three wavelengths,
PONT power meter for PON ONT side measurements

3 Test Port 3 – Optical Power Meter
Level and Loss measurements using 1 mm InGaAs detector
Universal interface compatible with most industry adaptors



4 Charge LED
Indicates charge status

5 Mini USB port
+ 5 Volt DC input, PC connection for data transfer, remote control

6 Talk Set port
Headset/Microphone mini-jack for clear digital communication

Optical Specifications

Light Source		
Wavelength (nm)	1310/1490/1550/1625 ± 20	850/1300 ± 20 nm
Output power (dBm)	> -5	
Power Stability (dB)	≤ ± 0.03 (15 min)	< ± 0.05 (15 min)
Modulation	CW, 270, 1 kHz, 2 kHz	
Optical connectors	Interchangeable adaptors (FC, SC, LC)	
Power Meter		
Calibration wavelength (nm)	1310/1490/1550/1625	650/850
Power range (dBm) - Standard (PM1), InGaAS (1 mm) - High (PM2), InGaAS (1 mm) - AutoTest BiDir (PM3), ORL hardware - PONT (1490, 1550 nm – ONT side)	 -70 to +7 -50 to +25 - 85 to + 3 - 50 to + 25	 -30 to +3/-60 to +3 -10 to +23/-40 to +23 N/A N/A
Power measurement accuracy, % (dB)	± 5 (± 0.22)	± 12 (± 0,5) / ± 8 (± 0.33)
Linearity, % (dB)	± 2, 5 (± 0.11)	± 6 (± 0.25) / ± 4 (± 0.17)
Resolution (dB)	0.01	0.01
Optical Loss Test Set (OLTS)*		
Wavelength (nm)	1310/1490/1550/1625	
Loss Range (dB) (1310/1550)	60	
Loss Precision (dB) - Side-by-side - Loopback	 0.15 0.25	
Length Indicator Range* (km)	200	
Length uncertainty resolution (m)	± 10 (< 150 km)	
Optical Return Loss (ORL)		
Wavelength (nm)	1310/1490/1550/1625	
ORL Range (UPC/APC) (dB)	-14 to -45/- 14 to -65	
ORL Uncertainty (dB)	± 0.5	
Resolution (dB)	0.1	
Visual Fault Locator (VFL)		
Emitter Type	Laser	
Wavelength (nm)	650	
Output Power (mW)	± 1	
Talk Set *		
Emitter Type	Laser	
Wavelength/Communication	1310/1550 symmetrical/digital	
Range (dB)	> 45	
Accessories	Headphones and microphone included	

**Check factory for Availability*

Ordering Information

Chassis Part #	FX50 - Optical Loss Test Set
Z06-99-037P	FX50-OPM Optical Power Meter
Z06-99-041P	FX50-OLS Optical Light Source Meter
Z06-99-042P	FX50-ORL Optical Return Loss Meter
Z06-99-043P	FX50-OLTS Optical Loss Test Set

Feature 1	FX50-OPM: OPM/PONT Hardware
000-00-001	No Selection
Z66-00-154P	Standard OPM/+7 dBm to -70 dBm, incl. one 2.5 mm adaptor
Z66-00-155P	High Power (CATV) OPM/+25 dBm to -50 dBm, incl. one 2.5 mm adaptor
Z66-00-156P	PONT, 1490/1550 nm (ONT Side), +25 dBm to -50 dBm, Fixed FCUPC Connector

Feature 2	FX50-OLS: Optical Light Source Hardware
000-00-002	No Selection
Z66-00-158P	LS15 - 1310/1550 nm, > -5 dBm, ± 0.03 dB/15 min, CW/270 Hz/1 KHz/2 KHz/Wave ID, Fixed FCUPC Connector
Z66-00-159P	LS16 - 1310/1550/1625 nm, > -5 dBm, ±0.03 dB/15 min, CW/270 Hz/1 KHz/2 KHz/Wave ID, Fixed FCUPC Connector
Z66-00-160P	LS14 - 1310/1490/1550 nm, >-5 dBm, ±0.03 dB/15 min, CW/270 Hz/1 KHz/2 KHz/Wave ID, Fixed FCUPC Connector
Z66-00-161P	LS85 - 850/1300 nm, ±0.05 dB/15 min, CW/270 Hz/1 KHz/2 KHz, Fixed FCUPC Connector

Feature 3	FX50-ORL: Optical Return Loss Hardware
000-00-003	No Selection
Z66-00-157P	LS15-ORL - 1310/1550 nm, -14 dBm to -65 dBm, Fixed FCAPC Connector
Z66-00-163P	LS16-ORL - 1310/1550/1625 nm, -14 dBm to -65 dBm, Fixed FCAPC Connector
Z66-00-164P	LS14-ORL - 1310/1490/1550 nm, -14 dBm to -65 dBm, Fixed FCAPC Connector

Feature 4	FX50-OLTS: Port 1 - OPM Hardware
000-00-004	No Selection
Z66-00-154P	Standard OPM/+7 dBm to -70 dBm, incl. one 2.5 mm adaptor
Z66-00-155P	High Power (CATV) OPM/+25 dBm to -50 dBm, incl. one 2.5 mm adaptor

Feature 5	FX50-OLTS: Port 2 - Optical Light Source/Return Loss Hardware
000-00-005	No Selection
Z66-00-157P	LS15-ORL - 1310/1550 nm, -14 dBm to -65 dBm, Fixed FCAPC Connector
Z66-00-158P	LS15 - 1310/1550 nm, > -5 dBm, ±0.03 dB/15 min, CW/270 Hz/1 KHz/2 KHz/Wave ID, Fixed FCUPC Connector
Z66-00-159P	LS16 - 1310/1550/1625 nm, > -5 dBm, ±0.03 dB/15 min, CW/270 Hz/1 KHz/2 KHz/Wave ID, Fixed FCUPC Connector
Z66-00-160P	LS14 - 1310/1490/1550 nm, > -5 dBm, ±0.03 dB/15 min, CW/270 Hz/1 KHz/2 KHz/Wave ID, Fixed FCUPC Connector
Z66-00-161P	LS85 - 850/1300 nm, ± 0.05 dB/15 min, CW/270 Hz/1 KHz/2 KHz, Fixed FCUPC Connector
Z66-00-163P	LS16-ORL - 1310/1550/1625 nm, -14 dBm to -65 dBm, Fixed FCAPC Connector
Z66-00-164P	LS14-ORL - 1310/1490/1550 nm, -14 dBm to -65 dBm, Fixed FCAPC Connector

Feature 6	VFL Hardware (applicable to Port 3)
000-00-006	No Selection
Z66-00-162P	VFL, equipped with universal 2.5 mm receptacle and dust cap

Software Options

499-05-627	Auto Test Bi-Directional, +3 dBm to -85 dBm (requires ORL hardware)
499-05-647	High Power OPM/+25 dBm to -50 dBm (requires PONT hardware for regular optical power measurement)
Z88-00-026G	Talk Set, 1310/1550 nm Symmetrical/Digital, incl. Headset with 2.5 mm Jack (requires ORL hardware)
Z88-00-027G	Talk Set, 1310/1550 nm Symmetrical/Digital, incl. Headset with 2.5 mm Jack (requires LS hardware)

Recommended Accessories

C01-00-001G	V100 Nylon Carrying Case

General Specifications

Dimensions	185 x 83 x 32 mm (H x W x D)
Weight:	< 0.4 kg (< 0.88 lbs)
Construction:	Rugged, metal chassis
Battery:	LiIon battery, 1800 mAh (80 hours)
Power Supply:	mini USB interface, 5 VDC charger
PC connection:	mini USB interface, remote control & data transfer via Windows Utility software
Storage:	4096 results
Display:	High contrast LCD (128 x 64 pixels) with backlight, 30.5 x 59.0 mm visible area
Operating Temp:	-10 °C to +50 °C
Storage Temp:	-20 °C to +70 °C
Humidity:	0% to 95%, non-condensing

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