

OPTICAL LOSS TEST SETS

DESCRIPTION

OLTS Series Optical Loss Test Set combines an optical power meter with a dual or triple-wavelength light source that measure the optical loss, optical return loss (optional) and fiber distance for optical fiber network installation and maintenance of optical loss and optical return loss.

The optical power meter unit can automatically recognize the wavelength being launched and can perform automatic bidirectional loss test on single fiber with Pass/Fail assessment. With its large data storage capacity, it is very convenient for field testing to store the test results and transfer the data to computer via USB interface.

FEATURES

- All-in-one test: Bidirectional IL + ORL
- Optical power monitoring (auto power trace)
- Auto synchronization of wavelength between light source and power meter (AutoID)
- ORL test option
- LCD backlight (to ease the reading under the sun)
- Support both CW and modulated signals
- Auto power off
- USB power charging and interface to PC
- Data storage up to 1000 results
- Interchangeable connectors available for both power meter and laser
- Pass/Fail Threshold Setting
- Remote reference value setting
- Test data with date/time stamp
- Auto test records saved in local unit/remote unit/both units
- >35hrs continuous operation
- Quick startup time, no warm-up
- High resolution color LCD
- Handheld, lightweight and easy-to-use



APPLICATION

- OLTS Series Optical Loss Test Set is the ideal optical loss tester to evaluate the optical fiber link conditions in FTTx, LAN and CATV network

Automatic Bidirectional Loss and Return Loss Test on Single Fiber

	1310	1550
A->B (dB)	23.73	12.96
B->A (dB)	23.62	12.91
ORL-A (dB)	30.74	31.86
ORL-B (dB)	29.92	31.28

Loss Meter Length: 71.521km

Buttons: Set ref., BiDirTest, Save

Bidirectional loss test can be performed by just pressing one button to automatically measure and display the entire fiber attenuation and return loss to help users acquire complete and accurate optical link loss information

Automatic Wavelength Switch /Identification

AutoID: Automatic	CW 1310nm
<input checked="" type="checkbox"/> 1310nm	-55.73 dBm
<input checked="" type="checkbox"/> 1550nm	

Laser Source

Buttons: LaserOnOff, Reference, Setup

Optical Power Monitoring

Draw Trace	1310nm
Scale: 2.0dB	CW
Timer: 15min	
Status: Stop	
-57.43 dBm	

Power Meter

Buttons: Recall, Trace, Setup

SPECIFICATIONS

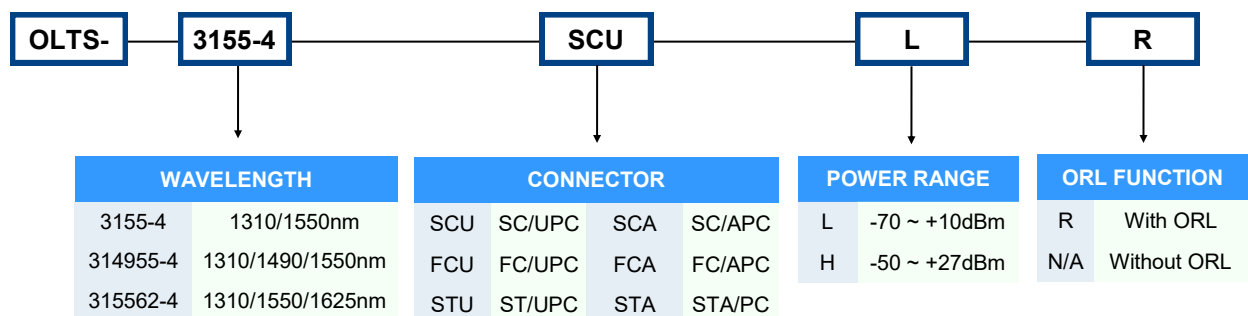
Model	OLTS-3155-4	OLTS-314955-4	OLTS-315562-4
Stabilized Laser Source			
Wavelength (± 20 nm), nm	1310/1550	1310/1490/1550	1310/1550/1625
Spectral Width, nm	≤ 5		
Emitter Type	FP LD		
Output Power, dBm	> -4		
Power Stability	± 0.05 dB/15min; ± 0.10 dB/8hr		
Modulation Mode	CW, 270Hz, 1KHz, 2KHz		
Optical Power Meter			
Calibrated Wavelength, nm	850, 1300, 1310, 1490, 1550, 1625		
Power Range (dBm)	$-70 \sim +10$ ($-60 \sim +10$ @850nm) or $-50 \sim +27$		
Display Unit	W/mW/ μ W/nW/pW/dBm/dB (REF)		
Detector Type	InGaAs		
Accuracy	$\pm 5\% \pm 0.01$ nW (± 0.5 dB@850nm) for $-70 \sim +10$ $\pm 5\% \pm 1$ nW (± 0.5 dB@850nm) for $-50 \sim +27$		
Resolution, dB	0.01		
Auto Wavelength Identification	Yes		
Tone Detection, Hz	270, 1K, 2K		
Optical Loss Test			
Loss Range, dB	50 (1550nm, 200km)		
Loss Accuracy, dB	± 0.25		
Loss Test Time, s	< 2 per wavelength		
ORL Test (Optional)			
ORL Measurement Range, dB	0~60 (APC connector)		
ORL Accuracy, dB	± 0.75 @(0~50dB), ± 1.5 @(50~60dB)		
ORL Uncertainty, dB	± 0.5 @20dB		
General Specifications			
Connector	SC (Interchangeable FC, ST)		
Data Storage	1000 records		
Data Interface	USB		
Backlight Display	Yes		
Auto Off	Yes (Auto-off after 5 minutes idle)		
Power Supply	Lithium Battery/ AC Adapter		
Battery Life, hrs	Continuous operation ≥ 35		
Operating Temperature, $^{\circ}$ C	$-20 \sim 50$		
Storage Temperature, $^{\circ}$ C	$-40 \sim 70$		
Relative Humidity, %	0 ~ 95 (Non-condensing)		
Weight, g	350		
Dimensions (H x W x T), mm	177x80x44		

STANDARD ACCESSORIES

Instrument, Lithium Battery, UK AC Adaptor/charger, USB Cable, Soft Carrying Case, Certificate of Calibration, Quick Reference Guide.

Ordering Information

Example : OLTS-3155-4-SCU-L-R



Note : Specifications are subject to change without notice