

OFL100 OTDR

OPTICAL TIME-DOMAIN REFLECTOMETER

TESTING | TROUBLESHOOTING | ACCURACY

The OFL100 OTDR enables the front-line fiber technician to quickly locate loss events in the last mile of the FTTx network. The convenient touchscreen provides an intuitive interface for even newly provisioned technicians making it simple to locate loss events such as cut fibers, contaminated or damaged connectors, and excessively bent fibers.

The Auto Mode allows for the technician to initiate a measurement without adjusting any test parameters. The Expert OTDR Mode provides access to all features that the savvy OTDR technician demands so they can refine measurement parameters enabling them to troubleshoot the most demanding faults.

Results can be displayed using a traditional OTDR trace or linear map with user selectable Pass/Fail analysis. All events are measured, annotated, saved, and exported as an industry standard SOR file that is compliant to GR196 Telcordia standards. The SOR file can be imported into the Trace Viewing program where analysis can be performed, and test results can be saved as a PDF report.



ORDERING INFORMATION:

CAT. NO.	DESCRIPTION
OFL100-NA	OFL100 with North American Power Supply
OFL100-EU	OFL100 with European Power Supply



FAST.

- Easy to use one button test function. Start measurements with the push of one button.
- Auto test automatically sets test parameters for optimum test results.

ACCURATE.

- Graphical touchscreen interface is easy to read, even in high ambient light conditions.
- 128,000 data points provides high accuracy results.
- Measure lengths and fiber defects to quickly locate faults.

RELIABLE.

- Link Viewer annotates the entire fiber link in an easy to interpret Pass/Fail format.
- Cable acceptance reports generate customized reports that include trace signature and fiber events.
- Long life battery so you can work longer without recharging up to 12 hour shift capable.

Includes:

- OFL100
- Power Supply with USB cable
- Carry Case
- SC/APC Adapter
- Certificate of Calibration
- Quick Reference Card
- 8GB SD card

ACCESSORIES:

CAT. NO.	DESCRIPTION
OFL100-SCAPC	SC/APC Adapter
OFL100-LCAPC	LC/APC Adapter
OFL100-FCAPC	FC/APC Adapter
OFLPS-NA	OFL100 North American Power Supply with USB Cable
OFLPS-UK	OFL100 United Kingdom Power Supply with USB Cable
OFLPS-EU	OFL100 European Power Supply with USB Cable
OFLCC	OFL100 Carry Case



OFL100 Specifications:

Wavelength 1310/1550nm Dynamic Range 26/24dB Event Deadzone 2.5m Attenuation Deadzone 8m Measurement Ranges 500m, 1km, 2km, 4km, 8km, 16km, 32km, 64km and 100km Pulse Widths 3ns, 5ns, 10ns, 20ns, 30ns, 50ns, 80ns, 19s, 9ps, 9ps, 10ps and 20ps ± (1m + Sample Interval + 0.005% x Test Distance Linearity \$0.05dB/dB Sampling Points 16,000 to 128,000 Loss Resolution 0.001dB Loss Threshold 0.20dB Distance Resolution 0.001m Refractive Index 1.00000 to 2.00000 Reflection Accuracy ±3dB File Format 50R compliant to Telcordia GR196 Loss Analysis Four Point & Five Point Laser Safety Class 1M Bulkhead 5C/APC (Optional LC and FC Available) Trace Update Rate 3Hz Optical Power Meter 3Hz Wavelength Range 800nm to 1700nm Measurement Range ±10dBm to -70dBm Measurement Range ±10dBm to -70dBm Measurement Range ±10dBm to -70dBm	OTDR	
Event Deadzone	Wavelength	1310/1550nm
Attenuation Deadzone Measurement Ranges Pulse Widths Pu	Dynamic Range	26/24dB
Measurement Ranges Pulse Widths Pulse Widths Pulse Widths Pulse Widths Pulse Widths Pulse Widths Reasurement Accuracy Linearity Linearity Linearity Loss Resolution Loss Threshold Distance Resolution Refractive Index File Format Loss Analysis Four Point & Five Point Laser Safety Bulkhead Calibrated Wavelengths Calibrated Wavelengths Measurement Range Measurement Resolution Cuty Laser Sand Wavelengths Measurement Recolution Output Power Wavelength Measurement Accuracy Laser Safety Class IM Bulkhead Calibrated Wavelengths Measurement Resolution Output Power Wavelength Measurement Resolution Output Power Wavelength Cuty Cy70Hz, 330Hz, 1kHz and 2kHz Bulkhead Cy, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead Cuty, 1Hz and 2Hz Mode of Operation CW, 1Hz and 2Hz Essmm Universal	Event Deadzone	2.5m
Pulse Widths	Attenuation Deadzone	8m
Rons, 160ns, 320ns, 50ns, 80ons, 100s, 80ons, 1us, 2ps, 3ps, 5ps, 8ps, 10ps and 20ps ± (Im + Sample Interval + 0.005% x Test Distance Linearity \$0.05dB/dB Sampling Points 16,000 to 128,000 Loss Resolution 0.001dB Loss Threshold 0.20dB Distance Resolution 0.001m Refractive Index 1.00000 to 2.00000 Reflection Accuracy ±3dB File Format 5OR compliant to Telcordia GR196 Loss Analysis Four Point & Five Point Laser Safety Class 1M Bulkhead 5C/APC (Optional LC and FC Available) Trace Update Rate 3Hz Optical Power Meter Wavelength Range 800nm to 1700nm Calibrated Wavelengths 150nm, 1825nm and 1650nm Measurement Renge +10dBm to -70dBm Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength 650nm ±20nm Output Power < 1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Measurement Ranges	
Test Distance Linearity \$\(\)	Pulse Widths	80ns, 160ns, 320ns, 500ns, 800ns, 1µs, 2µs, 3µs, 5µs, 8µs, 10µs and 20µs
Sampling Points 16,000 to 128,000 Loss Resolution 0.001dB Loss Threshold 0.20dB Distance Resolution 0.001m Refractive Index 1.00000 to 2.00000 Reflection Accuracy ±3dB File Format SOR compliant to Telcordia GR196 Loss Analysis Four Point & Five Point Laser Safety Class 1M Bulkhead SC/APC (Optional LC and FC Available) Trace Update Rate 3Hz Optical Power Meter Wavelength Range 800nm to 1700nm Resourement Range +10dBm to -70dBm Measurement Resolution 0.01dB Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength 650nm ±20nm Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Measurement Accuracy	
Loss Resolution 0.001dB Loss Threshold 0.20dB Distance Resolution 0.001m Refractive Index 1.00000 to 2.00000 Reflection Accuracy ±3dB File Format SOR compliant to Telcordia GR196 Loss Analysis Four Point & Five Point Laser Safety Class 1M Bulkhead SC/APC (Optional LC and FC Available) Trace Update Rate 3Hz Optical Power Meter Wavelength Range 800nm to 1700nm Calibrated Wavelengths 1650nm, 1850nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm and 1650nm Measurement Range +10dBm to -70dBm Measurement Resolution 0.01dB Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength 650nm ±20nm Output Power <1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Linearity	≤0.05dB/dB
Loss Threshold 0.20dB Distance Resolution 0.001m Refractive Index 1.00000 to 2.00000 Reflection Accuracy ±3dB File Format SOR compliant to Telcordia GR196 Loss Analysis Four Point & Five Point Laser Safety Class 1M Bulkhead SC/APC (Optional LC and FC Available) Trace Update Rate 3Hz Optical Power Meter Wavelength Range 800nm to 1700nm Calibrated Wavelengths 1490nm, 1300nm, 1310nm, 1490nm, 1550nm, 1655nm and 1650nm Measurement Range +10dBm to -70dBm Measurement Resolution 0.01dB Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength 650nm ±20nm Output Power <1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Sampling Points	16,000 to 128,000
Distance Resolution 0.001m Refractive Index 1.00000 to 2.00000 Reflection Accuracy ±3dB File Format SOR compliant to Telcordia GR196 Loss Analysis Four Point & Five Point Laser Safety Class 1M Bulkhead SC/APC (Optional LC and FC Available) Trace Update Rate 3Hz Optical Power Meter Wavelength Range 800nm to 1700nm Calibrated Wavelengths 850nm, 980nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm and 1650nm Measurement Range +10dBm to -70dBm Measurement Resolution 0.01dB Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength 650nm ±20nm Output Power < 1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Loss Resolution	0.001dB
Refractive Index Reflection Accuracy Reflection Accuracy File Format SOR compliant to Telcordia GR196 Loss Analysis Four Point & Five Point Laser Safety Class 1M Bulkhead SC/APC (Optional LC and FC Available) Trace Update Rate 3Hz Optical Power Meter Wavelength Range 850nm, 980nm, 1300nm, 1310nm, 1490nm, 1525nm and 1650nm Measurement Range H10dBm to -70dBm Measurement Resolution Measurement Accuracy \$5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead Visual Fault Locator Wavelength G50nm ±20nm Output Power <1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Loss Threshold	0.20dB
Reflection Accuracy ±3dB File Format SOR compliant to Telcordia GR196 Loss Analysis Four Point & Five Point Laser Safety Class 1M Bulkhead SC/APC (Optional LC and FC Available) Trace Update Rate 3Hz Optical Power Meter Wavelength Range 800nm to 1700nm Calibrated Wavelengths 1490nm, 1550nm, 1625nm and 1650nm Measurement Range +10dBm to -70dBm Measurement Resolution 0.01dB Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength 650nm ±20nm Output Power < 1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Distance Resolution	0.001m
File Format Loss Analysis Four Point & Five Point Laser Safety Class 1M Bulkhead SC/APC (Optional LC and FC Available) Trace Update Rate Optical Power Meter Wavelength Range 800nm to 1700nm 850nm, 980nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm and 1650nm Measurement Range +10dBm to -70dBm Measurement Accuracy Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead Visual Fault Locator Wavelength Output Power Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Refractive Index	1.00000 to 2.00000
Loss Analysis Four Point & Five Point Laser Safety Class 1M Bulkhead SC/APC (Optional LC and FC Available) Trace Update Rate 3Hz Optical Power Meter Wavelength Range 850nm, 980nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm and 1650nm Measurement Range +10dBm to -70dBm Measurement Accuracy 45% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength Output Power AlmW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Reflection Accuracy	±3dB
Laser Safety Class 1M Bulkhead SC/APC (Optional LC and FC Available) Trace Update Rate 3Hz Optical Power Meter Wavelength Range 800nm to 1700nm 850nm, 980nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm and 1650nm Measurement Range +10dBm to -70dBm Measurement Resolution 0.01dB Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength Output Power <imw 1hz="" 2.5mm="" 2hz="" and="" bulkhead="" cw,="" mode="" of="" operation="" td="" universal<=""><td>File Format</td><td>SOR compliant to Telcordia GR196</td></imw>	File Format	SOR compliant to Telcordia GR196
Bulkhead SC/APC (Optional LC and FC Available) Trace Update Rate 3Hz Optical Power Meter Wavelength Range 800nm to 1700nm 850nm, 980nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm and 1650nm Measurement Range +10dBm to -70dBm Measurement Resolution 0.01dB Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength 650nm ±20nm Output Power <1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Loss Analysis	Four Point & Five Point
Trace Update Rate Optical Power Meter Wavelength Range 800nm to 1700nm 850nm, 980nm, 1300nm, 1310nm, 1490nm, 1550nm 1625nm and 1650nm Measurement Range +10dBm to -70dBm Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength 650nm ±20nm Output Power <1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Laser Safety	Class 1M
Optical Power Meter Wavelength Range 800nm to 1700nm Calibrated Wavelengths 1490nm, 1550nm, 1300nm, 1310nm, 1650nm Measurement Range +10dBm to -70dBm Measurement Resolution 0.01dB Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength 650nm ±20nm Output Power <1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Bulkhead	SC/APC (Optional LC and FC Available)
Wavelength Range 800nm to 1700nm Calibrated Wavelengths 150nm, 1800nm, 1310nm, 1490nm, 1550nm, 1625nm and 1650nm Measurement Range +10dBm to -70dBm Measurement Resolution 0.01dB Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength 650nm ±20nm Output Power <1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Trace Update Rate	3Hz
Calibrated Wavelengths 850nm, 980nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm and 1650nm Measurement Range +10dBm to -70dBm Measurement Resolution 0.01dB Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength Output Power <1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Optical Power Meter	
Calibrated Wavelengths 1490nm, 1550nm, 1625nm and 1650nm Measurement Range +10dBm to -70dBm Measurement Resolution 0.01dB Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength Output Power <1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Wavelength Range	800nm to 1700nm
Measurement Resolution Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength Output Power AlmW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Calibrated Wavelengths	1490nm, 1550nm, 1625nm and
Measurement Accuracy ±5% Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength 650nm ±20nm Output Power <1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Measurement Range	+10dBm to -70dBm
Tone Frequencies/Sensing CW, 270Hz, 330Hz, 1kHz and 2kHz Bulkhead 2.5mm Universal Visual Fault Locator Wavelength 650nm ±20nm Output Power <1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Measurement Resolution	0.01dB
Bulkhead 2.5mm Universal Visual Fault Locator Wavelength 650nm ±20nm Output Power <1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Measurement Accuracy	±5%
Visual Fault Locator Wavelength 650nm ±20nm Output Power <1mW	Tone Frequencies/Sensing	CW, 270Hz, 330Hz, 1kHz and 2kHz
Wavelength 650nm ±20nm Output Power <1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Bulkhead	2.5mm Universal
Output Power <1mW Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Visual Fault Locator	
Mode of Operation CW, 1Hz and 2Hz Bulkhead 2.5mm Universal	Wavelength	650nm ±20nm
Bulkhead 2.5mm Universal	Output Power	<1mW
	Mode of Operation	CW, 1Hz and 2Hz
Laser Safety Class 2	Bulkhead	2.5mm Universal
	Laser Safety	Class 2

Stabilized Laser Source			
Wavelength	1310/1550nm		
Output Power	≥-5dBm		
Power Stability	CW, ±0.5dB/15 minutes after continuous on of 15 minutes		
Bulkhead	SC/APC (Optional LC and FC Available)		
Tone Frequencies	500m, 1km, 2km, 4km, 8km, 16km, 32km, 64km and 100km		
Optical Loss Testing			
Wavelength	1310nm and 1550nm		
Insertion Loss Testing	Integrated OPM and SLS		
RJ45 Cable Tracker			
Mode	Digital		
Distance	≥300m		
Pair Tracing	Compatible		
RJ45 Cable Measurement			
Distance	≥300m		
Mechanical			
Display	4.3" 800x400 TFT LCD Touchscreen		
Power Supply	AC to DC 100-240VAC, 50/60Hz		
Power Supply Format	North America, United Kingdom and European		
Battery Lifetime	>12 Hours Continuous Test		
Battery	3.7V, 4Ah Li ION		
Weight	<1.1lbs (<0.5kg) Including Battery		
Size	6.8"x 4.3"x 1.8" (173mm x 109mm x 45mm)		
Data			
Internal Storage	8GB (>200,000 Curves)		
Interface	USB Type C, 8GB SD Card		
Environmental			
Environmental Operational Temperature	-10°C to +50°C		
	-10°C to +50°C -40°C to +70°C		

^{*}Specifications subject to change without notice

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OFL100 01/22

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