

OTDR 800

Optical Time Domain Reflectometer with Bluetooth[®]

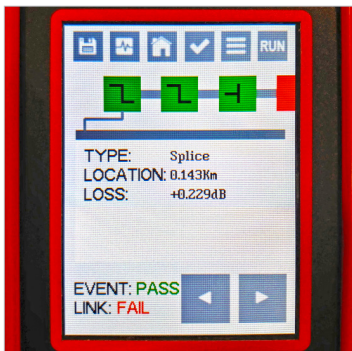
The OTDR 800 is the newest handheld OTDR from Ripley's ODM[®] brand that provides test technicians and contractors with an all-in-one solution for testing optical reflection and loss in fiber networks.

Its compact, ergonomic design is easily portable. The OTDR 800 is one of the smallest and lightest OTDR's on the market weighing under 1.5 lbs. It features an adjustable, ambidextrous hand-strap and protective rubberized boot that makes testing a breeze in virtually any location.

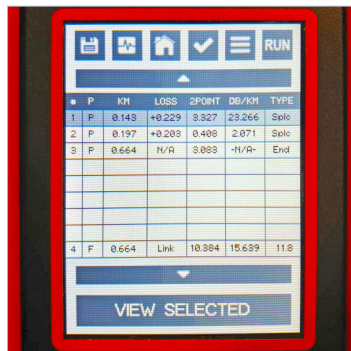
Quickly select from a wide variety of wavelength configurations and easily view the test results in an event table with PASS/FAIL analysis for each reflective event. Individual events can be inspected manually using the event selection feature or automatically with the device's built-in PASS/FAIL function. After testing, easily transfer trace files to an Android smartphone or tablet with Bluetooth[®], or to a Windows computer by USB with the free ODM[®] brand OpTrace software.

Features

- Detailed screen views provide visual trace & PASS/FAIL analysis
- LCD touchscreen interface with compact stylus provides refined cursor positioning & easy parameter selection
- Unique ergonomic, soft & compact case offers device protection
- Bi-directional averaging performs necessary calculations automatically
- Simplified user interface features Auto-Test capability for easy testing
- 1 meter dead zone delivers accurate reflective event testing in even the shortest fiber systems
- Bluetooth[®] compatibility with Android Smartphones & Tablets
- Optimized APC launch port minimizes reflections



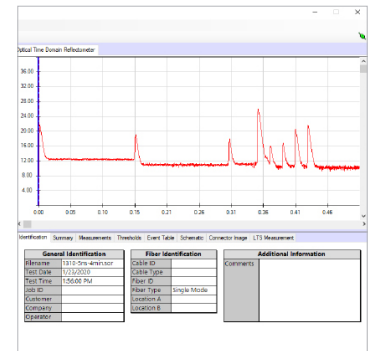
The Schematic Trace view shows the most important parts of each trace with pertinent data attached.



The Event Table view summarizes specific data points at events for more in-depth troubleshooting.



The factory-configured top panel features a VFL port, a laser port with multiple adapter options, and space for future expansion ports.




Transfer trace files to a Windows computer via USB or to an Android smartphone or tablet with Bluetooth[®].


Specifications

OTDR	
Wavelength Options	850nm, 1300nm, 1310nm, 1550nm and 1625nm ± 20nm
Dynamic Range	26/27dB MM, 33/33dB SM, PON Model 37/38/37
VFL Wavelength	650nm ± 5nm
Pulse Width	5 - 20,000ns
Units of Measurement	km, kf, mi
Event Dead Zone	1m
Attenuation Dead Zone	4m
Resolution	0.125m - 32m
Distance Uncertainty	± 0.75 + 0.005% x distance + sampling resolution
Distance Range	0.5km-260km SM
Real-Time Refresh Rate	2 Hz
Group Index of Refraction (GIR)	1.024 - 2.048

Linearity	± 0.05 dB/dB
Memory Capacity	~40,000 traces
Memory Type	Internal
Power Supply/Charger	USB Charger 5V@1A
Battery Life	Li-ion - 6 Hours
Storage Temperature	-20 to 60C
Operating Temperature	-10 to 50C
Dimensions (Without Boot)	6.25" x 4.125" x 1.875"(159mm x 105mm x 48mm)
Weight	1.5 lbs
Communication Ports	Micro USB and Bluetooth®
Output Connectors	Interchangeable FC, SC (both included)

Laser Safety

OTDR	
OTDR Laser Safety Classification	Class 1 Safety Per FDA/CDRH and IEC-825-1 Reg.
	

VFL	
VFL Laser Safety Classification	Class 2 FDA21 CFR1040.10 & 1040.11 IEC 825-1:1993
	

Ordering Information

PART NO.	WAVELENGTHS	SPECIAL FEATURES / NOTES
OTDR800	1310nm & 1550nm	Singlemode touchscreen OTDR includes ambidextrous hand strap, Stylus with convenient storage on-board, Industrial protective boot, FC and SC Adapters, charger, and hard carry case
OTDR800Q	850nm, 1300nm, 1310nm, & 1550nm	Quad, singlemode & multimode, touchscreen OTDR. Includes ambidextrous hand strap, Stylus with convenient storage on-board, Industrial protective boot, FC and SC Adapters, charger, and hard carry case
OTDR800-PON	1310nm, 1550nm, & 1625nm	Singlemode OTDR for testing live PON networks. Includes ambidextrous hand strap, Stylus with convenient storage on-board, Industrial protective boot, FC and SC Adapters, charger, and hard carry case
OTDR800-K1	1310nm & 1550nm	Singlemode OTDR kit includes ambidextrous hand strap, Stylus with convenient storage on-board, Industrial protective boot, FC and SC Adapters, charger, 150m SC/APC to LC/UPC Fiber Launch, 150m LC/UPC to LC/UPC Fiber Receive, cleaning accessories, and hard carry case
OTDR800-K2	850nm, 1300nm, 1310nm, & 1550nm	Quad, Singlemode and Multimode, touchscreen OTDR kit. Includes ambidextrous hand strap, Stylus with convenient storage on-board, Industrial protective boot, FC and SC Adapters, charger, 150m SM SC/APC to LC/UPC Fiber Launch, 150m SM LC/UPC to LC/UPC Fiber Receive, 150m MM SC/UPC to LC/UPC Fiber Launch, 150m MM LC/UPC to LC/UPC Fiber Receive, Non-Reflective Terminator, mating bulkheads, cleaning accessories, tower bag, and hard carry case
OTDR800-K3	1310nm, 1550nm, & 1625nm	Singlemode OTDR kit for testing live PON networks. Includes ambidextrous hand strap, Stylus with convenient storage on-board, Industrial protective boot, FC and SC Adapters, charger, 150m SC/APC to LC/UPC Fiber Launch, 150m LC/UPC to LC/UPC Fiber Receive, cleaning accessories, and hard carry case

Launch Cables/Accessories

PART NO.	DESCRIPTION
AC 490	SM FC-LC 150 meters
AC 491	SM SC/APC-LC 150 meters
AC 492	SM LC-LC 150 meters
AC 495	MM FC-LC 150 meters
AC 496	MM SC-LC 150 meters
AC 497	MM LC-LC 150 meters
AC 490-K	SM OTDR Launch/Receive Kit for OTDR800
AC 630	Non-reflective Terminator - LC UPC

Launch Cables/Accessories

PART NO.	DESCRIPTION
AC 160	SC Launch Port Adapter
AC 161	ST Launch Port Adapter
AC 162	FC Launch Port Adapter
AC 163	SC/APC Launch Port Adapter
AC 164	FC/APC Launch Port Adapter
AC 513	SM LC-LC 20 meters
AC 514	SM FC-LC 20 meters
AC 537	MM SC-LC 20 meters

Cleaning Tools

PART NO.	DESCRIPTION
AC 089	One-Click Cleaner for 1.25mm & ODC Ferrules / Bulkheads
AC 099	One-Click Cleaner for 2.5mm Ferrules / Bulkheads
AC 090	1.25mm Swabs (100 per Pack)
AC 091	2.5mm Swabs (100 per Pack)
AC 092	SqR Pad & Fiber Wash Pen
AC 190	Cletopt Cleaner - Type B - Blue Tape

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Ripley ODM® brand test equipment is furnished with a 2 year warranty extending from the original date of purchase. Contact Ripley Tools for information on recalibration and repair of test equipment. Ripley makes every effort to ensure that all information in this data sheet is accurate. Ripley Tools assumes no responsibility for any errors or omissions and reserves the right to modify this document at any time without notice. Please contact Ripley ODM® brand specialists for pricing and availability of equipment.

