ODM®
A RIPLEY® BRAND

NEW

# OTDR 800

## Optical Time Domain Reflectometer with Bluetooth®

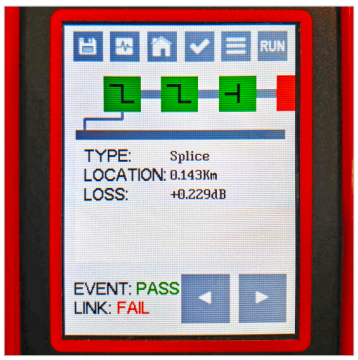
**The OTDR 800 is the newest handheld OTDR from Ripley's ODM® brand that provides test technicians and contractors with an all-in-one solution for testing optical reflection and loss in fiber networks.**

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.

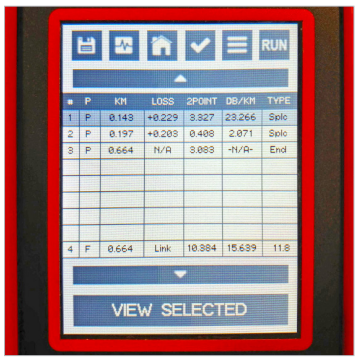
Quickly select from a wide variety of wavelength configurations and easily view the test results in an event table with PASS/FAIL analysis for each reflective event. Individual events can be inspected manually using the event selection feature or automatically with the device's built-in PASS/FAIL function. 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

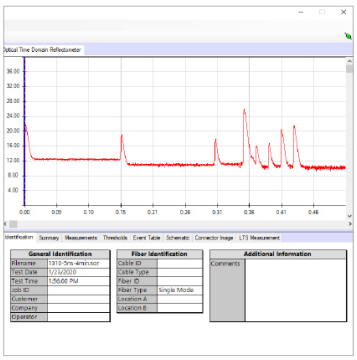



**The Schematic Trace view shows the most important parts of each trace with pertinent data attached.**




**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®.**

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# Specifications

| OTDR | |
|---|---|
| **Wavelengths** | 1310nm, 1550nm and 1625nm ± 20nm |
| **Dynamic Range** | 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 | DESCRIPTION |
|---|---|---|---|
| OTDR800 | 1310nm & 1550nm | OTDR includes ambidextrous hand strap, Stylus with convenient storage on-board, Industrial protective boot, FC, and SC Adapters, charger, and hard carry case | Touchscreen OTDR for SM applications. |
| OTDR800-K1 | 1310nm & 1550nm | OTDR 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 | Touchscreen OTDR for SM applications. |
| OTDR800-PON | 1310nm, 1550nm, & 1625nm | OTDR includes ambidextrous hand strap, Stylus with convenient storage on-board, Industrial protective boot, FC, and SC Adapters, charger, and hard carry case | Touchscreen OTDR for SM live PON networks. |

## Launch Cables/Accessories

| PART NO. | DESCRIPTION |
|---|---|
| **AC 490** | SM FC-LC 150 meters |
| **AC 495** | MM FC-LC 150 meters |
| **AC 513** | SM LC-LC 20 meters |
| **AC 514** | SM FC-LC 20 meters |
| **AC 630** | Non-reflective Terminator - LC UPC |
| **AC 160** | SC Launch Adapter |
| **AC 161** | ST Launch Adapter |
| **AC 162** | FC Launch Adapter |
| **AC 491** | SM SC/APC-LC 150 meters |
| **AC 492** | SM LC-LC 150 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** | Cletop Cleaner - Type B - Blue Tape |

M-DS038-05 OTR 800

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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.**

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