

OTR 500

Basic OTDR

Optical Time Domain Reflectometer

The ODM OTR 500 gives test technicians and contractors all the tools necessary for testing optical reflection and loss in fiber networks. The optional video scope allows for extensive options in endface inspection, ensuring industry acceptable optical connections.

The unit comes in single mode (1310/1550nm) or multi-mode (850/1300nm) configurations, making the OTR 500 the perfect option for all installations.

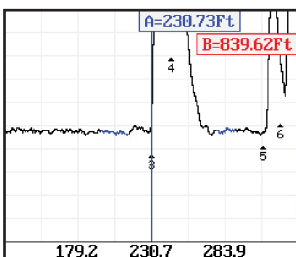
The OTR 500 offers an event table with PASS/FAIL analysis for each reflective event, and the 2 meter dead zone provides accurate reflective event testing in all fiber systems. Each event can be inspected manually using the event selection feature or automatically with the device's built-in pass/fail function.

The OTR 500 boasts a 3.5-inch color screen and storage for 1000 traces. Traces saved to the unit can be transferred via USB to the OpTrace application for Windows, then printed or sent via email.



Features

- Event table with PASS/FAIL analysis
- Bi-directional averaging - unit performs all necessary calculations automatically
- Short event dead zone - ideal for short-link installations
- Optionally add inspection probe for fiber endface inspection



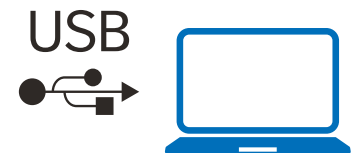
Simple, clean trace interface provides necessary information for fast assessment of fiber run.

#	P	FT	SPLICE	2POINT	DB/KF	TYPE
3	P	230.73	+0.095	0.375	+2.955	-47.6
4	P	244.97	+0.016	4.129	-NA-	-60.5
5	P	310.72	+0.400	0.353	-NA-	-55.1
6	P	322.86	+0.282	0.947	-NA-	-54.5
7	P	473.20	+0.213	0.408	-3.181	-51.0

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



Factory-configurable top panel provides space for laser/LED ports and video scope port.



Transfer trace files from OTR 700 to Windows computer for file editing/report creation with ODM's free OpTrace software.

Specifications

OTDR	
Wavelengths	User-Specified (See Ordering Information)
Dynamic Range	27/26dB MM 32/30dB SM
Pulse Width	20 - 10,000ns
Units of Measurement	km, kf, mi
Event Dead Zone	2m
Attenuation Dead Zone	5m
Resolution	0.25m - 64m
Distance Uncertainty	$\pm 0.75 + 0.005\% \times \text{distance} + \text{sampling resolution}$
Distance Range	1km-64km MM 1km-256km SM
Real-Time Refresh Rate	4 Hz
Group Index of Refraction (GIR)	1.024 - 2.048
Linearity	$\pm 0.05 \text{ dB/dB}$
Memory Capacity	1000 traces
Memory Type	Internal

Power Supply/Charger	Universal/Interchangeable
Battery Life	6 Hours
Storage Temperature	-20 to 60C
Operating Temperature	-10 to 50C
Dimensions (Without Boot)	7.75" x 4.5" x 2.25" (197mm x 114mm x 57mm)
Weight	2.0 lbs
Output Connectors	Interchangeable FC, ST, SC (Specify)

Ordering Information

PART NO.	WAVELENGTHS	SPECIAL FEATURES / NOTES	DESCRIPTION
OTR 500-S	1310nm & 1550nm	Probe port included. Add -P to product name (OTR 500-S-P) to add inspection probe.	Basic OTDR for SM applications.
OTR 500-M	850nm & 1300nm	Probe port included. Add -P to product name (OTR 500-S-P) to add inspection probe.	Basic OTDR for MM applications

Specify output adapter (FC, ST, SC) when ordering. Additional adapters may be ordered as needed; see accessories below.

Inspection Tip Adapters

PART NO.	DESCRIPTION
AC 040B	SC Adapter
AC 041B	SC / APC Adapter
AC 109B	SC 60-Degree Angle Adapter
AC 042B	FC Adapter
AC 043B	FC/APC Adapter
AC 104B	FC, 60° Angle Adapter
AC 044B	LC Adapter
AC 045B	LC/APC Adapter
AC 107B	LC, 60° Angle Adapter
AC 051B	OptiTap Adapter
AC 046B	ST Adapter
AC 047B	MTP/APC Adapter
AC 050B	MTP/MPO Straight Adapter
AC 048B	1.25mm Universal Adapter
AC 049B	2.5mm Universal Adapter
AC 114B	1.25mm Universal HR Adapter
AC 115B	2.5mm Universal APC Adapter
AC 116B	1.25mm Universal APC Adapter

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

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



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ZAGREB - CROATIA info@telecron.hr * www.telecron.hr

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ODM test equipment is furnished with a 2 year warranty extending from the original date of purchase. Contact ODM for information on recalibration and repair of test equipment. ODM makes every effort to ensure that all information in this data sheet is accurate. Ripley ODM LLC 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 LLC for pricing and availability of equipment.



RIPLEY ODM LLC ■ 143 LAKE STREET ■ LACONIA, NH 03246 USA
P: (603) 524-8352 E: TECH.SUPPORT@ODM.RIPLEY-TOOLS.COM W: WWW.ODM-INC.COM