Product: DR500	Date: Sept:2012	Rev: 10

Description

We are pleased to introduce the DR500 series handheld full color display Optical Time Domain Reflectometer from Advanced Fiber Solutions.

The unit is one of the most compact OTDR's on the market today, ideal for handheld use and pocket transportation. The unit is light weight, weighing less than 1.6 lbs. It is extremely rugged with a thick protective rubber boot surrounding the outer case. It also offers a long battery life enabling the technician to continuously test up to ten hours.

It is a full featured OTDR offering five different models to choice from, with a dynamic range starting at 26dB going up to 42dB. The DR500 series supports a wide range of cable plant applications ranging from local area networks to long haul applications.

Along with industry leading dynamic range and dead zones, the unit offers a number of wavelength options for both single mode and multimode applications with dual, tri and quad models available. Wavelength options include 850nm, 1300nm, 1310nm, 1490nm, 1550nm and 1625nm.

The unit is simple to operate and is the perfect installation, maintenance and link troubleshooting tool. It is the ideal OTDR for either the inexperienced or the experienced technician. The unit supports both a manual mode for the expert user which enables parameter setup and an automatic mode for the less experienced user which allows one touch auto run testing. The unit utilizes active sync for seamless USB connectivity with desktop software for advanced data analysis and storage capabilities.

It is fully compliant and compatible with the .sor (Standard OTDR Record) file format outlined in the Belcore GR-196/SR-4731 OTDR data standardization document. Additional save options includes a .pdf save function which enables the technician to quickly save and transfer documentation to their customers if required. Other optional features offered by this industry leading OTDR include a built in Power Meter, Light Source and latest addition the USB Fiber Scope.

Each unit comes with a DR500 series product manual, USB data transfer cable, the DR500 series PC software, report certificate and a soft carrying case.

Product Highlights and Key Features	
° Compact and rugged case	° Bellcore .sor format compatible
° Dual, tri and quad λ models available	° .pdf save function for expediting data transfer to customer
° Events table and auto test function	° USB jump drive compatible for extra storage
° Up to 43dB Dynamic Range	° 10 hours of operation, fast charging Li-Ion battery
° Weight less than 1.6 lbs	° High contrast full color display
° 5 model options to select from	° User friendly and easy too operate
° Distance measurement option: Feet or Meters	° Industry leading dead zones
° Optional features: Power Meter & Light Source	° Accessories: USB Fiber Scope

Technical Specifications & Exterior Characteristics

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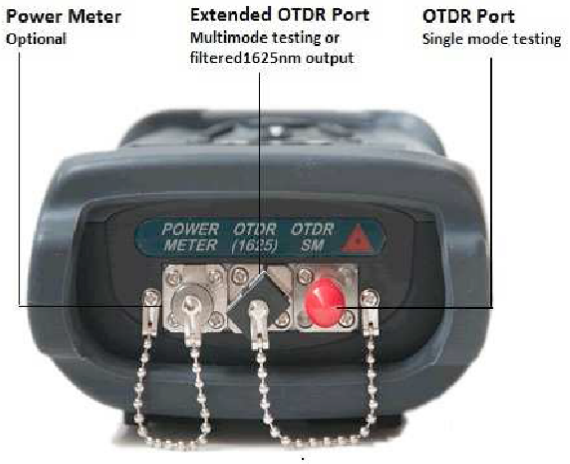
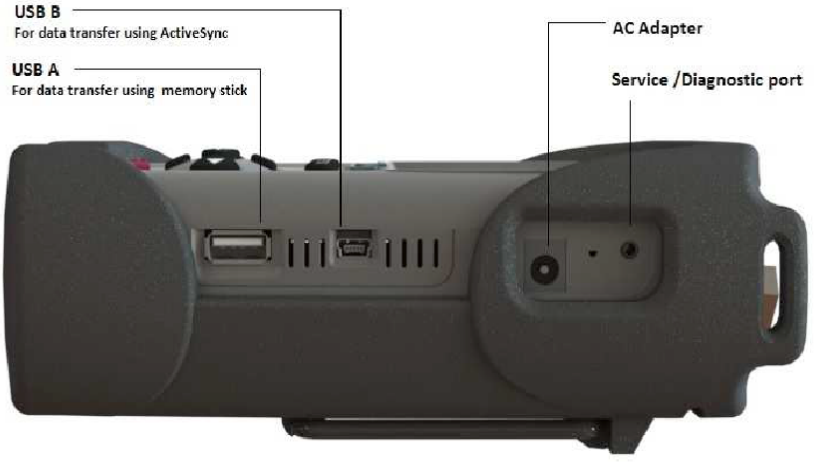
All Units	
Distance Range	2,5,10,20,40,80,120,160,240 Km
Data Points	Up to 64,000
Loss Resolution	0.001dB
Distance Accuracy	±(0.5+5′10-5′L+(δn/n)′L)
Refractive Index Range	1.0000…..2.0000
Language	English
OTDR Modes	Full Auto, Expert and Real Time
Attenuation Measurement Accuracy	0.05dB
Sampling Resolution	0.16m…..7.6m
Storage Capability	~ 1000 traces
Unit Measurement	Feet or Meters

Temperature Specifications	
Operation Temperature	0°.. +40°C
Relative Humidity	95% Without Condensation

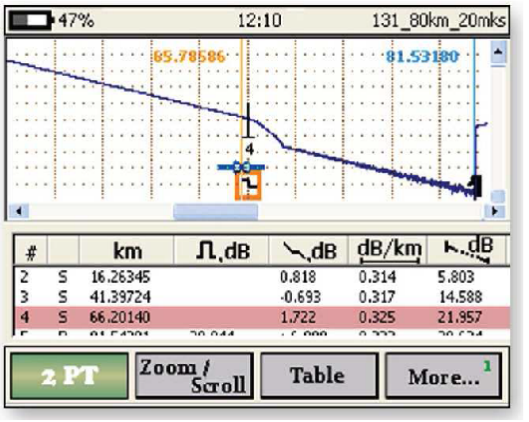
Unit Specifications	
Display	3.5" TFT 16 bit full color
Connection with PC	USB and ActiveSync
Power Supply	Li-Ion battery (10 hours) / External supply 12V @ 1.5amps
Optical Connector Style	ST, FC & SC
Dimensions (without boot)	6.5 inches X 3.65 inches X 2 inches
Weight	1.6 lbs





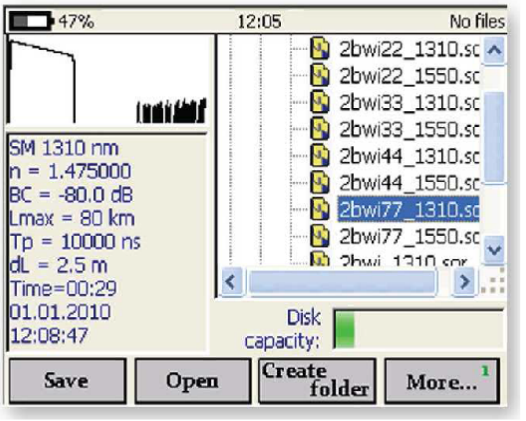
OTDR Utility Software

Firmware Software



Reliable and powerful firmware offers a host of features such as **Auto Trace Analysis**, **Batch Processing** and **Macrobend Detection**.

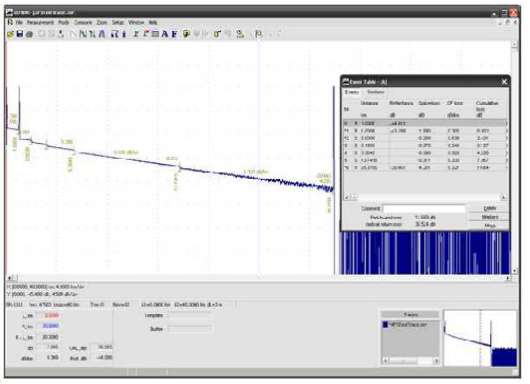
Once a measurement is complete the software will perform auto trace analysis of the line (if the option is selected by the technician). The software will create a table of events enabling the end user to auto-zoom in on highlighted events for further analysis.



Other features include a **Live Mode** were the trace is continuously being updated and adjusted according to the feedback from the back reflection of the inserted optical pulse, simultaneous **Multi-Wavelength** measurement, **Auto File Naming,** and a **Power Management** feature designed to extend the life of the battery.

An intuitive GUI makes running, saving and opening traces a breeze. There is also an option of an extended external storage capability by simply adding a standard USB jump drive to the side of the unit. The unit has internal storage capability to store up to 1000 traces.

Desktop Software



It utilizes the same powerful OTDR PC software package developed for the uOR series USB powered OTDR. The technician can transfer the .sor file from the handheld unit to the PC software for advanced data analysis and review enabling the end user to determine all the necessary characteristics of the optical fiber. The PC software is capable of displaying, storing, reading, printing and analyzing several traces simultaneously.