

# USB Powered OTDR

# AF-uOR-100, 200 and 300 Series

Product: USB OTDR	Date: Aug:2007	Rev: 01
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## Description

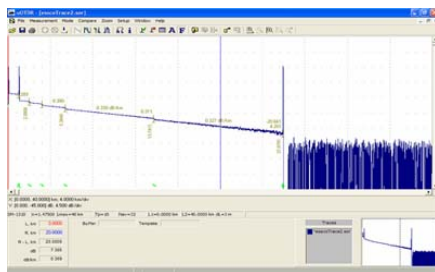
The AF-uOR-100, AF- uOR-200 & AF-uOR-300 series Micro PC-Based OTDR measures the attenuation in optical fibers and splices, as well as the length and the distance to any event, such as a break in fiber link. The Micro OTDR is the perfect tool for the construction, maintenance and restoration of cable plants and also as an educational tool. The Micro OTDR is accurate enough for laboratory use but portable and rugged enough for field applications.

The Micro OTDR consists of the single, small rugged case; it is lightweight and has a low power consumption. The Micro OTDR is used in conjunction with a PC or Laptop with a USB interface, eliminating the need for batteries completely! The USB connection allows the Micro OTDR to be controlled from a laptop or PC and runs off of Windows operating system. The Micro OTDR software allows the user to determine all the necessary characteristics of the Optical Fiber and is capable of displaying, storing, reading, printing and analyzing several traces at the same time.



Product Highlights and Key Features	
◦ Compact and rugged case	◦ Windows application software (Bellcore .sor format)
◦ Filtering function	◦ Product report certificate included
◦ Events table and auto test function	◦ Traces stored directly to PC hard drive
◦ USB powered, no external batteries required	◦ Language – English, Spanish + Korean

OTDR Trace



Compact and Rugged Case

# Technical Specifications



Optical Fiber Type	Multimode/Single Mode	Multimode	Single mode
Wavelength ( $\pm 30\text{nm}$ )	850nm/1300/1310/1550nm	850nm/1300nm	1310nm/1550nm
Dynamic Range (dB)	25/26/28/29 dB	26/25dB	**3 Versions
Attenuation Dead Zone	12 Meters/6 Meters	12 Meters	6 Meters
Event Dead Zone	3 Meters/1.5 Meters	3 Meters	1.5 Meters
Pulsewidth	10...1000nS/10...20000nS	10...1000nS	10...20000nS
All Units			
Distance Range	5,10,20,40,80,120,160,240 Km		
Loss Resolution	0.001dB		
Distance Accuracy	$\pm(0.5+5 \cdot 10^{-5} L+(\delta n/n) L)$		
Refractive Index Range	1.0000...2.0000		
Optical Connector Style	Call for availability		
Supply Current from USB Port	<200mA		
Size	6.25 x 3 x 1.25 inches		
Weight	1.5 lbs		
Language	English and Spanish		
Unit Measurement	Meter, Feet, KM + KF		

** Single Mode Version Available			
Version (Dynamic Range)	32/31dB	40/38dB	43/42dB

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

## Ordering Information

### AF-uOR-XXX

XXX (Model no.)	Wavelength	Description	Dynamic Range
101	850/1300nm	Multimode W/ST	26/25 dB
201	1310/1550nm	Single Mode W/FC	32/31dB
203	1310/1550nm	Single Mode W/FC	40/38dB
204	1310/1550nm	Single Mode W/FC	43/42dB
301	850/1300/1310/1550nm	Multimode/Single Mode W/ST+FC	26/26(MM) 28/29(SM)dB

Note: Other connector styles are available. Call Advanced Fiber Solutions for more information.