

Optical Time Domain Reflectometer (OTDR)

- High Resolution, Long Range
- 850/1300 nm Multimode and or 1310/1550 Singlemode, both with extra optical module
- Software Provides Trace Storage and Analysis
- Battery-powered for portability

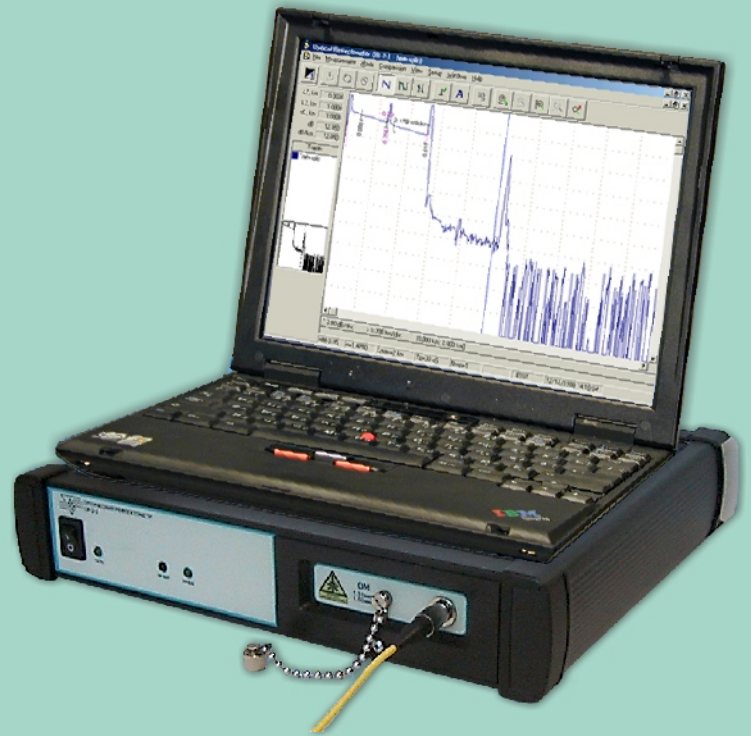
The Scientech OTDR module converts any Windows PC or Notebook to a full function OTDR. The OTDR consists of an optical module for either 850/1300 multimode or 1310/1550 singlemode testing, a mainframe that controls the optical module and processes the optical signals and a user-supplied PC that processes and displays the traces. The module can be operated off an AC adapter/recharger or a built-in battery.

The OTDR module connects to the PC with a RS232 cable and the Windows 95/98 software supplied gives the PC full control of the module, provides for trace analysis and data storage. This is perhaps the easiest OTDR to use, since the operation is based on normal Windows operations.

The OTDR screen contains complete data on the trace in toolbars and windows to let the user know at a glance what parameters were used in the testing and what is currently being measured. The software allows viewing or comparing up to 8 traces simultaneously, managing an unlimited number of stored traces, and analyzing the traces with equal power to any OTDR available today. An autotest function will identify relevant events and display the data on the trace.

For the instructor teaching fiber optics, this OTDR can be used with a large monitor or projector to allow the entire class to see the OTDR at work. The OTDR software can be used on any computer without the OTDR itself for analyzing data or teaching from stored traces. And the software license allows copying to multiple PCs in a lab, which allows all students to analyze the same traces as part of the class.

The measurement of electrical cable characteristics can be done with additional plug-in unit.



OF	multimode (nm)			singlemode		
Wavelength	850	1300	850/1300	1310	1550	1310/1550
Dynamic range (SNR=1), dB	28	27	27/26	36	35	36/35
Event dead zone,m	4					
Attenuation dead zone,m	25			20		
Pulsewidth, ns	10...1000			10...20000		
Distance range, km	2, 5, 10, 20, 40, 80, 120, 160, 240					
Loss resolution, dB	0.001					
Distance accuracy m	$\pm(0.5+5*10^{-(5)}*L+(dn/n)*L)$					
Refractive index range setting	1.0000...2.0000					
Optical connector type	FC, ST, SC,SMA,D4					
Supply voltage, V	Storage battery Pb (Lead Acid),~220V					
Consumed power W	20					
Size, mm	290x250x56					
Weight, kg	4					
Maintenance Specifications						
Operation temperature	0° .. +40°C					
Relative humidity	95% without condensation					
Atmosphere pressure	84 .. 106,7 kPa					

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