1.2 INSTRUMENT SPECIFICATIONS

Data Acquisition Time (For 132 KM display)	0.3 sec, Real Time 5 sec, Fast Scan 91 sec, Slow Scan
Readout Resolution	1 m
Distance Scale Factors	32, 64, 128, 256, 512, 1024, 2048, 4096, 8192, 16384 m/div
Vertical Scale Factors	0.25, 0.5, 1.0, 2.0, 4.0 dB/div
Vertical Resolution	0.01 dB
Vertical Linearity	0.04 dB/dB
Distance Accuracy	All modules except TD-850: +/- 0.01% of distance, +/- 8 m TD-850: +/- 0.01% of distance, +/- 2 m
CRT Display	7 inch, high contrast green phosphor, raster scan, 480 * 512 resolution
Cursors	Dual independent with lock functions, automatic centering in expanded modes
Help Button	On line instructions and application notes which may be printed on the plotter
Video Output	NTSC Composite Video, (1V P-P 75 Ohm) BNC Connector
Refractive Index	5 significant digits, range 1.0001 to 1.9999 digital entry, values retained in nonvolatile memory for each optical module
Loss Modes	2 pt.-Relative loss between any two points in the fiber dB/LM-Distance normalized fiber loss between any two points in the fiber Splice-Least squares approximation of splice loss
Loss Resolution	0.01 dB
dB Accuracy	Digital logarithmic transformation, 0% temperature drift

OPTICAL MODULE SPECIFICATIONS

Optical Module	850 nM M-Mode TD-850	1300 nM M-Mode TD-851	1300 nM S-Mode TD-953	1520 nM S-Mode TD-954	1520/1300 Dual S-Mode TD-955
Wavelength Tolerance		+/- 30 nM			
Pulse Widths	20 ns 100 ns	100 ns 320 ns 1 us	200 ns 630 ns 2 us	200 ns 630 ns 2 us	200 ns 630 ns 2 us
Range For Scattering(1) Min-	20 dB	20 dB	20 dB	18 dB	1520 - 17.5 dB
Typ-	23 dB	23 dB	22 dB	19 dB	18.5 dB 1300 - 20 dB 21 dB
Maximum Range	32 KM	132 KM	132 KM	132 KM	132 KM
Optical Connectors	FC Standard Deutsch, Biconic, Diamond, SMA Available		PC Standard Biconic, D4, Diamond Available		

Laser Safety Classification: 21 CFR Class 1

(1) Single-way dynamic range for Signal to Noise ratio of 1.

Optical Modules Available (See Module Specifications)	850 nM (+/- 30 nM) Multimode 1300 nM (+/- 30 nM) Multimode 1300 nM (+/- 30 nM) Single mode 1520 nM (+/- 30 nM) Single mode Dual 1300/1500 nM Single mode
Interfaces	NTSC Composite Video Output (standard) RS-232C (DCE) Serial Interface (optional) GPIB (IEEE-488) Interface (optional)
Hardcopy Option	Plug-in 4-inch Digital X-Y Plotter
Power Requirements	Selectable: 90 - 132 VAC, 47 - 63 Hz 180 - 260 VAC, 47 - 63 Hz 95 V.A. maximum
Dimensions	8" * 20.1" * 21.3"
Weight	38 pounds
Operating Temperature	-15 C to 45 C, <= 95% R.H. non-condensing (0 C to 40 C for rated specifications)
Storage Temperature	-20 C to 60 C
Laser Product Classification	21 CFR Class 1, all optical modules
EMI	Within MIL Std. 461 for conducted and radiated emissions
Accessories Provided	One Power Cord One set of Fuses One Optical Fiber Pigtail (2m) One Instruction Manual