

FSX Series

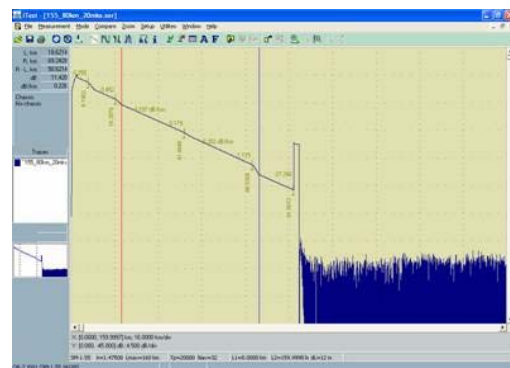
iVAM OTDR Module

Adding value and intelligence to the network.

The iVAM OTDR is a cost effective system that reduces the time and labor costs associated with installation, maintenance, and fault location testing of fiber optic networks.

The iVAM OTDR provides installation and maintenance personnel the ability to single handedly access and test fibers from any location. This can reduce dispatches by over 75% and minimizes the personnel and travel costs required to maintain and repair fiber networks. The OTDR module is non-intrusive, and can be used on dark and live traffic-carrying fibers.

The adaptors on the iVAM OTDR modules exit at a 45 degree angle for improved cable management, maintaining minimum fiber bend radius to prevent fiber macro bends. The removable adaptors allow easy access to the internal connectors for cleaning.



iVAM OTDR Trace

Major Features

- Remote access
- Excellent dynamic range (up to 41.5 dB)
- 1310, 1550, and 1625 nm
- Modular design
- Can be used with 1xN switch to test up to 576 fibers
- Removable angled adaptors

Specifications

Distance (km)	2, 5, 10, 20, 40, 80, 120, 160, 240
Pulse width duration (nsec)	10, 30, 90, 300, 1000, 3000, 10000, 20000
Event Dead Zone (m) ²	3.5
Attenuation Dead Zone (m)	14.5
Loss resolution (dB)	0.001
Linearity (dB/dB)	± 0.05
Distance Accuracy (m) ³	± (0.0005% of distance + dist. resolution + index uncertainty)

Wavelength

OTDR	Wavelength (nm)
SM- 1310 nm (37.5dB)	1310 ± 20
SM- 1310 nm (39.5dB)	
SM- 1550 nm (35.5dB)	1550 ± 20
SM- 1550 nm (41.5dB)	
SM- 1310/1550 nm (37.5/35.5dB)	1310 / 1550 ± 20
SM- 1310/1550 nm (39.5/41.5dB)	
SM- 1625 nm (38 dB)	1625 ± 20

Dynamic Range

Wavelength	Dynamic range, dB (SNR=1)							
	10 ns	30 ns	90 ns	300 ns	1000 ns	3000 ns	10000 ns	20000 ns
	Pulsewidth	Pulsewidth	Pulsewidth	Pulsewidth	Pulsewidth	Pulsewidth	Pulsewidth	Pulsewidth
SM- 1310 nm	15	17.5	20	22.5	25	28	30.5	31.5
SM- 1310 nm & filter	15	17.5	20.3	23.3	27.4	31	34	37.5
SM- 1550 nm	14	16.5	19	21.5	24	27	29.5	30.5
SM- 1550 nm & filter	14	16.5	19.3	22.3	26.4	30	33.5	35.5
SM- 1310/1550 nm	14.5/13.5	17/16	19.5/18.5	22/21	24.5/23.5	27.5/26.5	30/29	32/31
SM- 1310/1550 nm	14.5/13.5	17/16	19.8/18.8	22.8/21.8	27/26	30.5/29.5	34/33	37.5/35.5

& filter

1 Values of probe pulse duration can vary up to ± 10%. For probe pulses of 10 nsec, variation can be from +50 to -10 %

2 Probe pulse duration of 10 nsec and reflection coefficient less than 40 dB

3 dist. Resolution + index uncertainty



North America
Corporate Headquarters
15550 Lightwave Drive
Clearwater, FL 33760, USA
Toll free: +1.877.442.DIGL
T: +1.727.442.6677
F: +1.727.442.5660

Europe/Middle East/Africa
Intl. Expansion Headquarters
Jebel Ali Free Zone
P.O. Box 261126
Dubai, U.A.E.
T: +971.4.3606013
F: +971.4.3606014

Asia/Pacific Rim
Asian Expansion Headquarters
10 Anson Road, #21-02
International Plaza
Singapore 079903
T: +65.9002.8093
F: +65.6729.3031

China
Expansion Office
Rm. 308A, Twr. B, He Qiao Bldg.
Guanghua Rd., Chao Yang Dist.
Beijing, China 100026
T: +8610.65815317
F: +8610.65815327

Latin America/Caribbean
Expansion Office
Saratoga 214, Col. Portales
Mexico City, DF
Mexico
T: +52.55.1353.4741
F: +1.727.442.5660