

OM1000

Fiber Optic Cable Production Measurement System

Key Benefits

- High-performance desktop optical cable tester
- With broad dynamic range coverage (up to 43 dB), accurately test fibers within distances up to 180km
- Excellent short-distance performance with ≤1m event deadzone and ≤5m attenuation deadzone
- Test with up to 4 optical ports simultaneously
- Numerous data transfer options: supports LAN, USB, SD, & more



Overview

Developed by Deviser Instruments, the OM1000 is a 4-port, all-range fiberoptic cable tester for desktop use. The OM1000 represents a comprehensive solution for cable production, processing, testing, and inspection tasks in any laboratory environment. With test specifications based on Deviser's extensive line of OTDR products, the OM1000 boasts high integration and real-time analysis & processing at excellent cost-performance.

Specifications

Optical Parameters									
Wavelength	1310nm	0nm 1550nm 850nm		1300nm	1383nm (option)				
Mode	Singlemode	Singlemode	Multimode	Multimode	Multimode				
Dynamic range*	30 ~ 43 dB	28 ~ 41 dB	25 dB	27 dB	25 ~ 35 dB				
Wavelength accuracy		±2 nm							
Spectral width		<0.4 nm							
Measurement range	1.5km -	~ 200km	1.5km ~ 25km						

Optical Parameters			General Specifications			
Event deadzone**		≤ 1m	Processor		Intel© Core™ Ivy Bridge / Sandy Bridge processors in LGA1155 encapsulation, and 800 / 1066 / 1033 MHz	
Atten. deadzone**		≤ 5m			FSB bus frequency	
Pulse width	SM	3ns, 5ns, 10 ns, 20 ns, 50 ns, 100 ns, 200 ns, 500 ns, 1µs, 2µs, 5µs, 10µs, 20µs	Interface	Display	VGA	
				USB	6x USB 2.0; DC 5V ± 0.05V @ 500mA	
	MM	5ns,10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1µs	mondeo	LAN	1x RJ45 LAN (10M/100M/1000M). Supports Wake on LAN. Extra LAN port optional.	
Sampling resolution		5cm ~ 12.8m	Laser safety compliance		IEC 60825-1 CLASS 1M	
Group refractive index		1.000000 ~ 2.000000	Optical test standards		•IEC 605793-1-22 (-40/-45) •TIA/EIA FOTP-59 (60/61)	
Distance uncertainty		\pm (0.75 + 0.0001% \times fiber length + sample resolution)			•ITU-T G650	
Loss resolution		0.01 dB/km	0.01 dB/km Operating temperature		-10°C ~ +50°C	
Distance display range		30m ~ 400km @ full screen	Storage Temperature		-40°C ~ +70°C	
Power display range		0.6 dB ~ 60 dB @ full screen	Relative Humidity		0 ~ 95%, non-condensing	
Power resolution ratio		0.01 dB	Dimensions (LxWxH)		14.6" x 20.7" x 8.1" (370mm x 525mm x 205mm)	
Test items		Event loss; reflection loss; attenuation; attenuation	Weight		36.4 lbs (16.5 kg)	
		coefficient; RMS; peak-peak noise; ORL	©2019 Deviser Instruments Incorporated. 780 Montague Expressway, Suite 701, San Jose, CA 95131. All rights reserved. Specifications subject to change without notice. All product and company names are trademarks			

* At 25°C ± 5°C, 20µs pulse width, 3min average time, starting backscatter value SNR = 1. ** At 25°C ± 5°C, 5ns pulse width, non-saturated reflective event, 5cm distance accuracy.

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