

Fluke Networks DSX-5000 Versiv OptiFier Pro OTDR

Tech Specs

Cable Types	
Shielded and unshielded pair LAN cabling	TIA Category 3, 4, 5, 5e, 6, 6A, 8: 100 Ω ISO/IEC Class C, D, E, E _A , F, F _A and I/II: 100 Ω and 120 Ω
Standard Link Interface Adapters	
Permanent link adapters	Plug type: shielded RJ45 Optional Plug type: Tera
Channel Adapters	Jack type: shielded RJ45 Optional Jack type: Tera
Test Standards	
TIA	Category 3, 4, 5, 5e, 6, 6A, 8 per TIA 568-C.2
ISO/IEC	Class C and D, E, E _A , F, F _A and I/II certification per ISO/IEC
Maximum frequency	DSX-5000: 1000 MHz
General Specifications	
Speed of Autotest	Full 2-way Autotest of Category 5e or 6/Class D or E: 9 seconds . Full 2-way Autotest of Category 6A/Class E _A : 10 seconds
Supported test parameters (The selected test standard determines the test parameters and the frequency range of the tests)	Wire Map, Length, Propagation Delay, Delay Skew, DC Loop Resistance, Insertion Loss (Attenuation), Return Loss (RL), NEXT, Attenuation-to-crosstalk Ratio (ACR-N), ACR-F (ELFEXT), Power Sum ACR-F (ELFEXT), Power Sum NEXT, Power Sum ACR-N, Power Sum Alien Near End Xtalk (PS ANEXT), Power Sum Alien Attenuation Xtalk Ratio Far End (PS AACR-F)
Input protection	Protected against continuous telco voltages and 100 mA over-current. Occasional ISDN over-voltages will not cause damage
Display	5.7 in LCD display with a projected capacitance touchscreen
Case	High impact plastic with shock absorbing overmold
Dimensions	Main Versiv unit with DSX module and battery installed: 2.625 in x 5.25 in x 11.0 in (6.67 cm x 13.33 cm x 27.94 cm)
Weight	Main Versiv unit with DSX module and battery installed: 3 lbs, 5oz (1.28 kg)
Main unit and remote:	Lithium ion battery pack, 7.2 V
Typical battery life:	8 hours
Charge time*	Tester off: 4 hours to charge from 10 % capacity to 90 % capacity.
Languages supported	English, French, German, Italian, Japanese, Portuguese, Spanish, Chinese, Korean, Russian, Trad Chinese, Czech, Polish, Swedish, Hungarian
Calibration	Service center calibration period is 1 year
Environmental Specifications	
Operating Temperature	32°F to 113°F (0°C to 45°C)
Storage Temperature	-14°F to +140°F (-10°C to +60°C)
Operating relative humidity	0 % to 90 %, 32°F to 95 °F (0°C to 35°C) 0 % to 70 %, 95°F to 113 °F (35°C to 45°C)
Vibration	Random, 2 g, 5 Hz-500 Hz
Shock	1 m drop test with and without module and adapter

Safety	CSA 22.2 No. 61010, IEC 61010-1 3 rd Edition	
Operating altitude	13,123 ft (4,000 m) 10,500 ft (3,200 m) with ac adapter	
EMC	EN 61326-1	
Performance Specifications **		
DSX-5000	Category 6A/Class E _A test modes (or lower link categories)	Exceed Level IIIe requirements of TIA 1152 and Level IV of IEC 61935-1.
	Class F _A test modes	Exceed Level V requirements as in the draft 4th edition of IEC 61935-1.
Length of Twisted Pair Cabling ¹		
	Without Remote	With Remote
Range	800 m (2600 ft)	150 m (490 ft)
Resolution	0.1 m or 1 ft	0.1 m or 1 ft
Accuracy	± (0.3 m + 2 %); 0 m to 150 m ± (0.3 m + 4 %); 150 m to 800 m	± (0.3 m + 2 %)
Propagation Delay		
	Without Remote	With Remote
Range	4000 ns	750 ns
Resolution	1 ns	1 ns
Accuracy	± (2 ns + 2 %); 0 ns to 750 ns ± (2 ns + 4 %); 750 ns to 4000 ns	± (2 ns + 2 %)
Delay Skew		
Range	0 ns to 100 ns	
Resolution	1 ns	
Accuracy	± 10 ns	
DC Loop Resistance Test		
Range	0 Ω to 540 Ω	
Resolution	0.1 Ω	
Accuracy	± (1 Ω + 1 %)	
Overload recovery time	Less than 10 minutes to rated accuracy following an overvoltage. Referencing is required after repeated or prolonged overvoltage.	