Model 500 Optical Multitester

A LANscape® Pretium™ Solutions Product

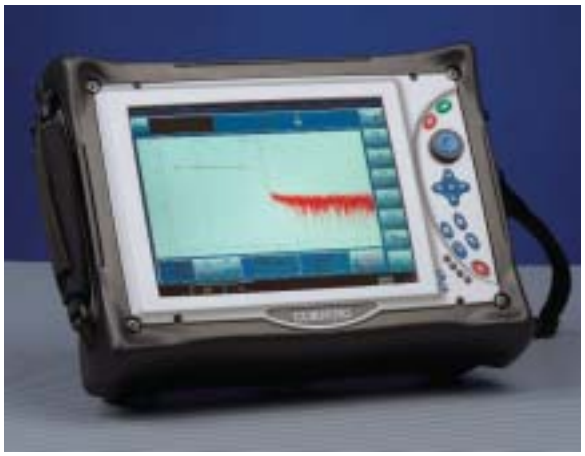
Corning
Cable Systems

Applications

- Optical link certification and troubleshooting
- Fiber characterization
- System documentation

Description

The Model 500 Optical Multitester is the industry's newest test and measurement solution designed with the high performance and flexibility necessary to meet the stringent demands of telecommunication professionals, while simultaneously accelerating the deployment of new services and reducing the total cost of measurement.



Model 500 Optical Multitester | Photo TEQ26

Accelerates the Deployment of New Services

The Model 500 Optical Multitester Optical Time Domain Reflectometer (OTDR) application offers more than 50 dB of dynamic range to obtain all required OTDR test information on any link in seconds. Coupled with the best-in-class OTDR, the Model 500 Optical Multitester offers all test applications required for comprehensive physical medium characterization including:

- Optical Spectrum Analyzer
- Chromatic Dispersion
- Polarization Mode Dispersion
- Visual Fault Locator
- Talk Set
- Optical Return Loss
- Video Inspection Probe (for connector verification)
- Loss Test Set

In short, the Model 500 Optical Multitester is the most complete solution for physical layer fiber characterization.

Reduces the Total Cost of Measurement

One platform provides complete testing solutions for multiple network layers, which reduces time and cost by minimizing training, increasing user efficiency, reducing equipment inventory and decreasing test time by utilizing industry-recognized testing technologies. With applications ranging from DWDM and Gigabit Ethernet testing to dispersion and OTDR measurements, the Model 500 Optical Multitester is the ideal solution for any testing scenario. Spanning the physical and data link layers, the Model 500 Optical Multitester provides a true multi-layer network test solution. Corning Cable Systems has incorporated numerous test technologies into an expandable platform, allowing a single unit to adapt and evolve to meet your testing needs and reduce test equipment inventory.

Network Equipment Installation

During equipment installation, the Model 500 Optical Multitester provides all of the tools to accomplish the job. With the required information intuitively displayed, including channel wavelength (or frequency) and power, OSNR and system gain tilt, the Optical Spectrum Analysis (OSA) application facilitates accurate and efficient channel management, power balancing and tuning throughout the network. In addition to industry-leading OSA performance, the Model 500 Optical Multitester offers a Video Inspection Probe (VIP) to verify connector quality and a Power Meter application for measuring individual channel power or aggregate system power. Whether you are testing transmitters, amplifiers, receivers or other optical components, the Model 500 Optical Multitester OSA, VIP and Power Meter combine to offer the complete solution required for rapid network equipment installation.

Deployment of Services

The Model 500 Optical Multitester Gigabit Ethernet application rises to the challenge by providing assurance that critical parameters, including throughput, latency, frame rate and frame loss (as detailed in RFC 2544), are met to accelerate the deployment of services. In addition, the ability to measure bit error rate at the frame level and provide general IP statistics allows the Model 500 Optical Multitester to supply critical layer quality of service information. The Gigabit Ethernet test application contains the required performance to install, maintain and troubleshoot 10/100/1000 Mb/s-based Ethernet networks and allows users to optimize available bandwidth.

Complete Model 500 Optical Multitester Kit Recommendations

In order to provide complete, easy-to-configure optical testing solutions, Corning Cable Systems offers five comprehensive kits to meet your current and future needs. The Model 500 Optical Multitester can also be customized to meet specific needs if necessary by using the "Build Your Own" section on Page 5.

Part Number	Description
Standard Quad	
500SK-MDSD-XXX	Designed to meet the OTDR testing needs of contractors, technicians, engineers and end-users at an affordable price. The Standard Quad Kit is a great solution for the qualification, documentation, maintenance and troubleshooting of LAN systems. Includes: multimode/single-mode OTDR testing capabilities, SoftView™ Plus Emulation Software, deluxe hard-shell transit case
Classic Quad	
500DK-MDSD-XXX	Designed as a complete optical LAN testing solution for physical layer testing, the Classic Quad Kit adds a power meter, single-mode light source, VFL, CD-RW drive and full access to the Windows 2000 operating system features and functionality
Comprehensive Quad	
500EDK-MDSD-XXX	Designed as an all-inclusive LAN testing solution, the Comprehensive Quad Kit includes all of the features of the Classic Quad Kit plus 10/100/1000 bit Ethernet copper and optical testing. In addition, the Video Inspection Probe is incorporated to offer complete connector endface inspection and documentation. 850 nm optical Ethernet capability is included by default. Please contact your Customer Service Representative for 1300 and 1550 nm options
MetroTech	
500CKL-SD40-XXX	The MetroTech Kit is a complete testing solution designed to meet the needs of CATV, telco, utility and municipal installers, contractors and end-users. The MetroTech Kit includes a long-range single-mode OTDR, CATV-grade power meter, single-mode light source, VFL and CD-RW drive; all packaged in a four-bay mainframe allowing future expansion of Ethernet, Optical Spectrum Analyzer and Dispersion modules
FiberTech Pro	
500FTP-STR45-XXX	The FiberTech Pro Kit is a comprehensive testing solution constructed for the most critical, intensive networks and installations. The FiberTech Pro Kit includes an ultra-long-range tri-wavelength (1310/1550/1625 nm) single-mode OTDR module plus Chromatic Dispersion measurement, CATV-grade power meter, single-mode light source, VFL, Optical Spectrum Analyzer, Polarization Mode Dispersion plus 1310/1550 nm light source and Video Inspection Probe. The FiberTech Pro Kit is packaged in a six-bay unit to hold a variety of modules
Connector Options:	
USC	SC
UST	ST® Compatible
UFC	FC
AFC	Angled FC
ASC	Angled SC

Other connector styles available upon request.

Other Kits Available:

Part Number	Description
500DKL-MDSD-XXX	Model 500 Optical Multitester Deluxe OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro, 4-bay mainframe, VFL, CW single-mode light source, power meter (+10 to -55 dBm), SoftView™ Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-SD35-5-XXX (35 dB single-mode) and 500-MD25-1-XXX (25 dB multimode)
500DK-SD45-XXX	Model 500 Optical Multitester Deluxe OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro, 2-bay mainframe, VFL, CW single-mode light source, power meter (+10 to -55 dBm), SoftView Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-SD45-5-XXX (45 dB single-mode)
500SK-SD45-XXX	Model 500 Optical Multitester Standard OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-ROM, hard drive, 2-bay mainframe, SoftView Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-SD45-1-XXX (45 dB single-mode)
500DKL-SD45-XXX	Model 500 Optical Multitester Deluxe OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro, 4-bay mainframe, VFL, CW single-mode light source, power meter (+10 to -55 dBm), SoftView Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-SD45-5-XXX (45 dB single-mode)
500CKL-SD45-XXX	Model 500 Optical Multitester CATV Deluxe OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro, 4-bay mainframe, VFL, CW single-mode light source, high-power meter (+20 to -45 dBm), SoftView Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-SD45-6-XXX (45 dB single-mode)
500DK-SD40-XXX	Model 500 Optical Multitester Deluxe OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro, 2-bay mainframe, VFL, CW single-mode light source, power meter (+10 to -55 dBm), SoftView Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-SD40-5-XXX (40 dB single-mode)
500SK-SD40-XXX	Model 500 Optical Multitester Standard OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-ROM, hard drive, 2-bay mainframe, SoftView Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-SD40-1-XXX (40 dB single-mode)
500DKL-SD40-XXX	Model 500 Optical Multitester Deluxe OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro, 4-bay mainframe, VFL, CW single-mode light source, power meter (+10 to -55 dBm), SoftView Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-SD40-5-XXX (40 dB single-mode)
500CKL-STRCD-XXX	Model 500 Optical Multitester CATV Deluxe OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro, 4-bay mainframe, VFL, CW single-mode light source, high-power meter (+20 to -45 dBm), SoftView Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-STRCD-6-XXX (40 dB single-mode), Chromatic Dispersion option
500DK-SD35-XXX	Model 500 Optical Multitester Deluxe OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro, 2-bay mainframe, VFL, CW single-mode light source, power meter (+10 to -55 dBm), SoftView Plus Emulation Software, battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-SD35-5-XXX (35 dB single-mode)

Other Kits Available: *(continued)*

Part Number	Description
500SK-SD35-XXX	Model 500 Optical Multitester Standard OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-ROM, hard drive, 2-bay mainframe, SoftView™ Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-SD35-1-XXX (35 dB single-mode)
500DKL-SD35-XXX	Model 500 Optical Multitester Deluxe OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro, 4-bay mainframe, VFL, CW single-mode light source, power meter (+10 to -55 dBm), SoftView Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-SD35-5-XXX (35 dB single-mode)
500CKL-SD35-XXX	Model 500 Optical Multitester CATV Deluxe OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro, 4-bay mainframe, VFL, CW single-mode light source, high-power meter (+20 to -45 dBm), SoftView Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-SD35-6-XXX (35 dB single-mode)
500DK-MD25-XXX	Model 500 Optical Multitester Deluxe OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro, 2-bay mainframe, VFL, power meter (+10 to -55 dBm), SoftView Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-MD25-5-XXX (25 dB multimode)
500SK-MD25-XXX	Model 500 Optical Multitester Standard OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-ROM, hard drive, 2-bay mainframe, SoftView Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-MD25-1-XXX (25 dB multimode)
500DKL-MD25-XXX	Model 500 Optical Multitester Deluxe OTDR Test Kit, 10.4-in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro, 4-bay mainframe, VFL, power meter (+10 to -55 dBm), SoftView Plus Emulation Software, Li-Ion battery, power supply, manuals, deluxe hard-shell transit case. Optical module: 500-MD25-5-XXX (25 dB multimode)

Build Your Own Model 500 Optical Multitester

Part Number	Description
Step One: Select a Mainframe	
500-MAINF-STD	Standard Mainframe with small bay adapter (2-module capacity), 10.4-in active color LCD (1024 x 768), touch screen, CD-ROM, hard drive–does not include optical module
500-MAINF-DLX	Deluxe Mainframe with small bay adapter (2-module capacity), 10.4-in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro - does not include optical module
500-MAINF-LDLX	Deluxe Mainframe with medium bay adapter (4-module capacity), 10.4-in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro–does not include optical module
Step Two: Select One or More Optical Modules	
500-MD25-1-XXX	850/1300 nm multimode, 25 dB
500-MD25-2-XXX	850/1300 nm multimode, 25 dB, power meter (+10 to -55 dBm), CW LED source
500-MD25-3-XXX	850/1300 nm multimode, 25 dB, high-power meter (+20 to -45 dBm), CW LED source
500-MD25-4-XXX	850/1300 nm multimode, 25 dB, VFL
500-MD25-5-XXX	850/1300 nm multimode, 25 dB, power meter (+10 to -55 dBm), VFL, CW LED source
500-MD25-6-XXX	850/1300 nm multimode, 25 dB, high-power meter (+20 to -45 dBm), VFL, CW LED source
500-SD35-1-XXX	1310/1550 nm single-mode, 35 dB
500-SD35-2-XXX	1310/1550 nm single-mode, 35 dB, power meter (+10 to -55 dBm), CW light source
500-SD35-3-XXX	1310/1550 nm single-mode, 35 dB, high-power meter (+20 to -45 dBm), CW light source
500-SD35-4-XXX	1310/1550 nm single-mode, 35 dB, VFL
500-SD35-5-XXX	1310/1550 nm single-mode, 35 dB, power meter (+10 to -55 dBm), VFL, CW light source
500-SD35-6-XXX	1310/1550 nm single-mode, 35 dB, high-power meter (+20 to -45 dBm), VFL, CW light source
500-SD40-1-XXX	1310/1550 nm single-mode, 40 dB
500-SD40-2-XXX	1310/1550 nm single-mode, 40 dB, power meter (+10 to -55 dBm), CW light source
500-SD40-3-XXX	1310/1550 nm single-mode, 40 dB, high-power meter (+20 to -45 dBm), CW light source
500-SD40-4-XXX	1310/1550 nm single-mode, 40 dB, VFL
500-SD40-5-XXX	1310/1550 nm single-mode, 40 dB, power meter (+10 to -55 dBm), VFL, CW light source
500-SD40-6-XXX	1310/1550 nm single-mode, 40 dB, high-power meter (+20 to -45 dBm), VFL, CW light source
500-SD45-1-XXX	1310/1550 nm single-mode, 45 dB
500-SD45-2-XXX	1310/1550 nm single-mode, 45 dB, power meter (+10 to -55 dBm), CW light source
500-SD45-3-XXX	1310/1550 nm single-mode, 45 dB, high-power meter (+20 to -45 dBm), CW light source
500-SD45-4-XXX	1310/1550 nm single-mode, 45 dB, VFL
500-SD45-5-XXX	1310/1550 nm single-mode, 45 dB, power meter (+10 to -55 dBm), VFL, CW light source
500-SD45-6-XXX	1310/1550 nm single-mode, 45 dB, high-power meter (+20 to -45 dBm), VFL, CW light source
500-STR40-1-XXX	1310/1550/1625 nm single-mode, 40 dB
500-STR40-2-XXX	1310/1550/1625 nm single-mode, 40 dB, power meter (+10 to -55 dBm), CW light source
500-STR40-3-XXX	1310/1550/1625 nm single-mode, 40 dB, high-power meter (+20 to -45 dBm), CW light source
500-STR40-4-XXX	1310/1550/1625 nm single-mode, 40 dB, VFL
500-STR40-5-XXX	1310/1550/1625 nm single-mode, 40 dB, power meter (+10 to -55 dBm), VFL, CW light source
500-STR40-6-XXX	1310/1550/1625 nm single-mode, 40 dB, high-power meter (+20 to -45 dBm), VFL, CW light source
500-STRCD-6-XXX	1310/1550/1625 nm single-mode, 40 dB, high-power meter (+20 to -45 dBm), VFL, CW light source, Chromatic Dispersion option

Build Your Own Model 500 Optical Multitester *(continued)*

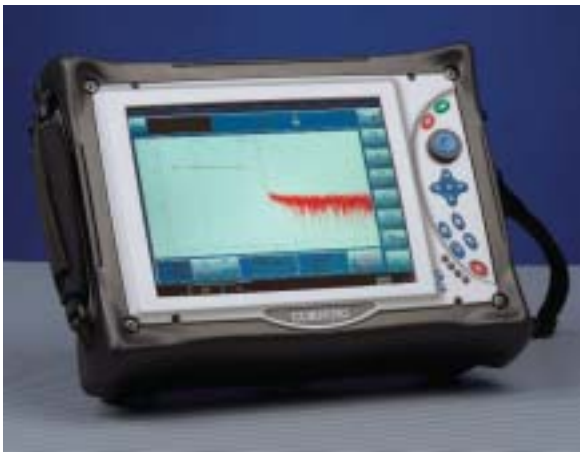
Part Number	Description
Step Three: Select a Transit Case	
500-OP-SMCASE	Deluxe Hard-Shell Transit Case for a dual-bay unit
500-OP-LGCASE	Deluxe Hard-Shell Transit Case for a quad-bay unit
500-OP-SFTCASE	Deluxe Soft-Shell Transit Case for a dual or quad-bay unit
Step Four: Add SoftView™ Plus Emulation Software	
SOFTVIEWPLUS	Model 500 Optical Multitester Emulation Software for OTDR, OSA and loss testing results
Step Five: Add Accessories as Needed	
500-OP-FLOPPY	Internal Floppy Drive
500-OP-MANUAL	Spare Users Manual
500-OP-KEY-US	External Keyboard
500-OP-DXKEY-US	External Keyboard with integrated trackball
500-OP-BATTERY	Lithium Ion Battery
500-OP-ACPOWER	External Power Supply
500-OP-PRINTER	External Printer
500-OP-TRIPOD	Heavy-Duty Mounting Tripod for dual-bay unit
500-OP-MODEM	56k PC Card Modem
500-OP-WINUG	Windows 2000 Upgrade for 500-MAINF-STD
500-OP-CDRW	CD-RW and Windows 2000 Upgrade for 500-MAINF-STD
500-OP-LINEUS	Power Cord for USA
500-OP-LINEEU	Power Cord for Europe (EU)
500-OP-LINEUK	Power Cord for United Kingdom
500-OP-LINESW	Power Cord for Switzerland
500-OP-LINEIT	Power Cord for Italy
500-OP-LINEAU	Power Cord for Australia

Basic Multitester Platform

Through the open-architecture design of the Model 500 Optical Multitester, Corning Cable Systems offers the highest performance measurement applications in one powerful, modular platform. This allows networks to be characterized and commissioned faster than the competition, providing accelerated time to revenue. In addition, the flexibility and scalability of the Model 500 Optical Multitester allows the platform to evolve with user testing needs and technology for addressing ever-changing telecommunication infrastructures.

Basic Multitester Platform Features / Benefits

- Large, color display with touch screen
- Hard buttons plus application-specific soft keys
- Two platform sizes for your application optimization
- Multiple powering options: Li-ion battery or AC
- Multiple I/O ports for easy connection of accessories, including USB, 10/100 MB Ethernet and two PC card (PCMCIA) slots
- Includes modular CD-ROM; CD-RW upgrade available
- Features online assistance, operator's manual and support CD



Model 500 Optical Multitester | Photo TEQ26

Optical Multitester - Rear View with OTDR Module| Photo TEQ27

Multitester Mainframe Specifications

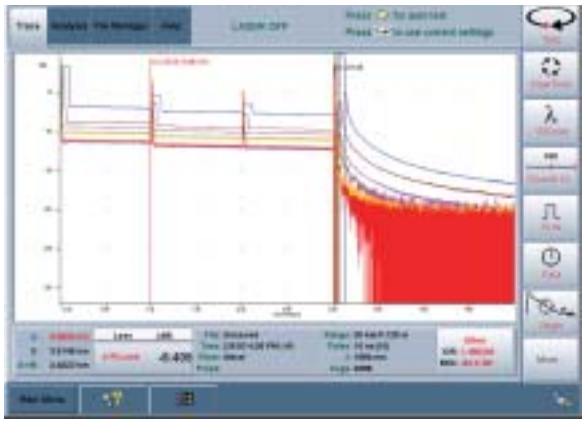
Parameter	Specification
Multitester Mainframe Specifications	
Display Type	Touch screen, 26.4 cm (10.4 in) Active Matrix Color (TFT)
Units of Measure	Meters, feet (selectable)
Operating Temperature	0° to 45°C (32° to 122°F)
Storage Temperature	-25° to +60°C (-13° to 140°F)
Humidity	95% RH maximum, non-condensing
Maximum Altitude	15,240 m (50,000 ft)
Power Supply	Battery: 6-8 hrs typical battery life (2 batteries); recharge time: < 3 hrs; AC: 92-132 V, 47-63 Hz; Autoranging: 12 VDC operation
Weight	
Platform with 2 bays	5.4 kg (12 lb) includes one battery
Platform with 4 bays	6.3 kg (14 lb) includes one battery
Dimensions	
Platform with 2 bays	24.1 x 34.3 x 9.5 cm (9.5 x 13.5 x 3.75 in)
Platform with 4 bays	24.1 x 34.3 x 15.2 cm (9.5 x 13.5 x 6 in)
Processor	Ultra-low power 300 MHz Intel Celeron
System Memory	256 MB
Operating System	Windows 2000 or Windows XP
Control Interface	Touch screen, cursor control, dedicated hardkeys and status LEDs
Standard I/O Ports	USB (2), PC card slots (2), Ethernet 10/100 (1), IrDA (1), Video (1), PS/2 Mouse (1), PS/2 Keyboard (1), Parallel (1), RS-232 Serial (1)
Data I/O (modular)	CD-ROM (standard), CD-R upgrade (write), 3.5-in 1.44 MB floppy drive (optional), GPIB (optional), 56k modem (optional)
Data I/O (fixed)	13 GB hard drive minimum (standard)

Ordering Information

Part Number	Description
Basic Multitester Platform	
500-MAINF-STD	Standard Mainframe with small bay adapter (2-module capacity), 10.4 in active color LCD (1024 x 768), touch screen, CD-ROM, hard drive – does not include optical module
500-MAINF-DLX	Deluxe Mainframe with small bay adapter (2-module capacity), 10.4 in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro–does not include optical module
500-MAINF-LDLX	Deluxe Mainframe with medium bay adapter (4-module capacity), 10.4 in active color LCD (1024 x 768), touch screen, CD-RW (writable), hard drive, Windows 2000 Pro–does not include optical module

OTDR Application

As a part of the multitester platform, the Optical Time Domain Reflectometer (OTDR) application is another way to accelerate the deployment of services while reducing the cost of measurement. Today's competitive environment demands that networks offer exceptional performance and reliability with minimal down time. When characterizing and documenting such stringent performance levels, the Multitester OTDR application is the ideal solution for virtually all applications including long-haul, metropolitan and Passive Optical Networks (PONs). The OTDR application reduces the time to install, commission and maintain fiber spans via high-performance hardware and easy-to-use software. The Multitester can be easily equipped with a light source and power meter for complete end-to-end loss testing. In addition, the Visual Fault Locator (VFL) option enables you to visually locate breaks at patch panels and identify specific optical fibers within a cable, which can increase revenue through accurate fiber characterization.



OTDR | Photo NS036

OTDR
Features / Benefits

- Extremely high resolution (0.5-m resolution at 125 km, 1-m resolution at 250 km)
- Superior event analysis software provides accuracy and detection consistency
- Unequaled reflectance and ORL accuracy; 1-2 dB accuracy, fully automatic
- Multiple test modes simplify and automate tests for several applications including fiber reel validation measurements, LAN, long-haul, metro or PON applications
- Tri-wavelength OTDR module simplifies multiple band fiber characterization including O-, S-, C- and L-band
- OTDR, Loss Test Set and Visual Fault Locater in a single module
- Fastest OTDR in the industry, 60-80% of range in 15-30 seconds
- Automated reflectance and ORL measurements
- Automated reporting; fully automated bi-directional loss measurements with one-button operation
- Features color display with touch screen, modular CD-ROM drive, operator's manual, support CD, one Li-ion battery, AC charger/adapter, 10/100 MB Ethernet port, two PC card (PCMCIA) slots and choice of AC line cord

OTDR Specifications

Parameter	Specification
Distance Accuracy	0.0025% of distance measurement ± distance resolution ± index uncertainty
Laser Safety	Meets IEC 60825-1 Class 1 and CDRH Class 1 Requirements (Eye Safe) 21 CFR 1040
CW Light Source Option	
Wavelength	Same as corresponding OTDR module
Output Power	-8 dBm (min)
Output Fiber	9/125 µm single-mode fiber
Optical Connector	Same as corresponding OTDR module
Modes of Operation	CW, 1 KHz and 2 KHz
Stability	± 0.2 dB (8 hours)
Spectral Width	Same as OTDR module
Safety	Same as OTDR module
Power Meter Option	
Detector Type	InGaAs
Wavelength Range	800-1700 nm
Range	± 10 to -55 dBm or +20 to -45 dBm
Calibrated Wavelengths	850, 1300, 1310, 1550, 1625 nm
Optical Connector	2.5 mm Universal
Resolution	0.01 dB, 0.001% Watts
Store Reference Mode	Yes
Accuracy	± 0.2 dB @ +5 dBm to -55 dBm
Linearity	± 0.10 dB, +5 dBm to -55 dBm
VFL Option	
Wavelength	650 ± 20 nm
Output	0 dBm
Transmission Mode	CW or 2 Hz
Output Fiber	9/125 µm, SM fiber
Optical Connector	2.5 mm Universal
Safety	IEC 60825-1 Class 2, FDA (21 CFR 1040. 10 Class 2)

Specifications *(continued)*

Module	500-SD35	500-SD40	500-SD45	500-STR40	500-MD25
Fiber Type	Single-mode	Single-mode	Single-mode	Single-mode	Multimode
Center Wavelength	1310 nm ± 20 nm 1550 nm ± 20 nm	1310 nm ± 20 nm 1550 nm ± 20 nm	1310 nm ± 20 nm 1550 nm ± 20 nm	1310 nm ± 20 nm 1550 nm ± 20 nm 1625 nm ± 10 nm	850 nm ± 30 nm 1300 nm ± 30 nm
Spectral Width (RMS)	1310 nm: < 15 nm 1310 nm: < 15 nm	1310 nm: < 15 nm 1310 nm: < 15 nm	1310 nm: < 15 nm 1310 nm: < 15 nm	1310 nm: < 15 nm 1550 nm: < 15 nm 1625 nm ± 15 nm	850 nm: < 15 nm 1300 nm: < 15 nm
Dynamic Range	1310 nm: 35 dB 1550 nm: 35 dB	1310 nm: 40 dB 1550 nm: 40 dB	1310 nm: 45 dB 1550 nm: 45 dB	1310 nm: 40 dB 1550 nm: 40 dB 1625 nm ± 40 nm	850 nm: 25 dB 1300 nm: 25 dB
Initial Reflective Deadzone	1310 nm: 3.5 m 1550 nm: 3.5 m	1310 nm: 3.5 m 1550 nm: 3.5 m	1310 nm: 7 m 1550 nm: 7 m	1310 nm: 3.5 m 1550 nm: 3.5 m 1625 nm ± 3.5 nm	850 nm: 3 m 1300 nm: 3 m
Initial Non-Reflective Deadzone 3	1310 nm: 7 m 1550 nm: 7 m	1310 nm: 7 m 1550 nm: 7 m	1310 nm: 12 m 1550 nm: 12 m	1310 nm: 7 m 1550 nm: 7 m 1625 nm: 7 m	850 nm: 7 m 1300 nm: 7 m
Linearity	0.04 dB/dB	0.04 dB/dB	0.04 dB/dB	0.04 dB/dB	0.04 dB/dB
Pulsewidth	5 ns to 20 µs	5 ns to 20 µs	5 ns to 30 µs	5 ns to 20 µs	5 ns to 1 µs
Distance Resolution	0.0001 km, 0.1 m, 1 ft, 0.0001 m	0.0001 km, 0.1 m, 1 ft, 0.0001 mi	0.0001 km, 0.1 m, 1 ft, 0.0001 mi	0.0001 km, 0.1 m, 1 ft, 0.0001 mi	0.0001 km, 0.1 m, 1 ft, 0.0001 mi
Distance Range Setting	5, 20, 50, 125, 250, 300 km	5, 20, 50, 125, 250, 300 km	5, 20, 50, 125, 250, 300 km	5, 20, 50, 125, 250, 300 km	5, 20, 50, 125 km
Loss Resolution	0.001 dB	0.001 dB	0.001 dB	0.001 dB	0.001 dB
Distance Sampling (Range Dependent)	0.125, 0.25, 0.5, 1, 2, 4, 8, 16 m	0.125, 0.25, 0.5, 1, 2, 4, 8, 16 m	0.125, 0.25, 0.5, 1, 2, 4, 8, 16 m	0.125, 0.25, 0.5, 1, 2, 4, 8, 16 m	0.125, 0.25, 0.5, 1, 2, 4, 8 m
Data Points	Up to 256,000	Up to 256,000	Up to 256,000	Up to 256,000	Up to 256,000

Ordering Information

Part Number	Description
OTDR Application	
500-MD25-1-XXX	850/1300 nm multimode, 25 dB
500-MD25-2-XXX	850/1300 nm multimode, 25 dB, power meter (+10 to -55 dBm), CW LED source
500-MD25-3-XXX	850/1300 nm multimode, 25 dB, high-power meter (+20 to -45 dBm), CW LED source
500-MD25-4-XXX	850/1300 nm multimode, 25 dB, VFL
500-MD25-5-XXX	850/1300 nm multimode, 25 dB, power meter (+10 to -55 dBm), VFL, CW LED source
500-MD25-6-XXX	850/1300 nm multimode, 25 dB, high-power meter (+20 to -45 dBm), VFL, CW LED source
500-SD35-1-XXX	1310/1550 nm single-mode, 35 dB
500-SD35-2-XXX	1310/1550 nm single-mode, 35 dB, power meter (+10 to -55 dBm), CW light source
500-SD35-3-XXX	1310/1550 nm single-mode, 35 dB, high-power meter (+20 to -45 dBm), CW light source
500-SD35-4-XXX	1310/1550 nm single-mode, 35 dB, VFL
500-SD35-5-XXX	1310/1550 nm single-mode, 35 dB, power meter (+10 to -55 dBm), VFL, CW light source
500-SD35-6-XXX	1310/1550 nm single-mode, 35 dB, high-power meter (+20 to -45 dBm), VFL, CW light source
500-SD40-1-XXX	1310/1550 nm single-mode, 40 dB
500-SD40-2-XXX	1310/1550 nm single-mode, 40 dB, power meter (+10 to -55 dBm), CW light source
500-SD40-3-XXX	1310/1550 nm single-mode, 40 dB, high-power meter (+20 to -45 dBm), CW light source
500-SD40-4-XXX	1310/1550 nm single-mode, 40 dB, VFL
500-SD40-5-XXX	1310/1550 nm single-mode, 40 dB, power meter (+10 to -55 dBm), VFL, CW light source
500-SD40-6-XXX	1310/1550 nm single-mode, 40 dB, high-power meter (+20 to -45 dBm), VFL, CW light source
500-SD45-1-XXX	1310/1550 nm single-mode, 45 dB
500-SD45-2-XXX	1310/1550 nm single-mode, 45 dB, power meter (+10 to -55 dBm), CW light source
500-SD45-3-XXX	1310/1550 nm single-mode, 45 dB, high-power meter (+20 to -45 dBm), CW light source
500-SD45-4-XXX	1310/1550 nm single-mode, 45 dB, VFL
500-SD45-5-XXX	1310/1550 nm single-mode, 45 dB, power meter (+10 to -55 dBm), VFL, CW light source
500-SD45-6-XXX	1310/1550 nm single-mode, 45 dB, high-power meter (+20 to -45 dBm), VFL, CW light source
500-STR40-1-XXX	1310/1550/1625 nm single-mode, 40 dB
500-STR40-2-XXX	1310/1550/1625 nm single-mode, 40 dB, power meter (+10 to -55 dBm), CW light source
500-STR40-3-XXX	1310/1550/1625 nm single-mode, 40 dB, high-power meter (+20 to -45 dBm), CW light source
500-STR40-4-XXX	1310/1550/1625 nm single-mode, 40 dB, VFL
500-STR40-5-XXX	1310/1550/1625 nm single-mode, 40 dB, power meter (+10 to -55 dBm), VFL, CW light source
500-STR40-6-XXX	1310/1550/1625 nm single-mode, 40 dB, high-power meter (+20 to -45 dBm), VFL, CW light source
500-STRCD-6-XXX	1310/1550/1625 nm single-mode, 40 dB, high-power meter (+20 to -45 dBm), VFL, CW light source, Chromatic Dispersion option

Gigabit Ethernet Application

The Model 500 Optical Multitester Gigabit Ethernet application accelerates the deployment of 10/100/1000 Mb/s Ethernet services to decrease troubleshooting time and cost while increasing network uptime.

When your network is down, or service levels are compromised, delay is not an option.The Model 500 Optical Multitester Gigabit Ethernet application quickly diagnoses service impairments and improves network up time.

When deploying optical or copper-based 10, 100 or 1000 Mb/s Ethernet service, it is critical to certify the link from end-to-end to ensure efficient turn-up and error-free operation. The Model 500 Optical Multitester provides targeted applications to facilitate fast, efficient link certification. The Traffic Generation application provides end-to-end testing by having one Multitester generate Ethernet traffic up to full line rate, while a receiving network station or second Multitester monitors the traffic at the far end of the link under test. With complete control of the line load, frame size, frame rate and frame contents, in addition to the ability to insert one or multiple errors, links can be easily characterized under real-world, full-line-rate conditions.

By using the Model 500 Optical Multitester's monitor with Link Certification application, one unit can be used to both generate and receive Ethernet traffic. In this manner, all traffic sent and received can be simultaneously viewed on one display. The network under test can either provide the logical loop back, or a remote Multitester can be used to swap the MAC source and destination addresses to provide the loop back. The data communications industry's RFC 2544 Benchmarking Methodology for Network Interconnect Devices details the testing requirements for deploying and commissioning high-data-rate networks. The Model 500 Optical Multitester Gigabit Ethernet application performs throughput, frame loss, latency and back-to-back frame tests (also called burstability), in compliance with RFC 2544. The Multitester not only performs these tests, but also automates the process by offering pre-designed, loadable configuration files to perform the tests in complete conformance to RFC 2544 standards. The Model 500 Optical Multitester also allows the freedom to adjust all measurement parameters manually for ultimate flexibility and control. Once configured, these user-defined set-up parameters may be stored in a configuration file for future use. Regardless of the method, the Multitester's ease of use ensures the correct configuration, eliminating measurement errors and wasted time due to incorrect instrument set-up.

Gigabit Ethernet | Photo NS030

Gigabit Ethernet | Photo NS031

The optional Channel Statistics software upgrade for the Model 500 Optical Multitester empowers the user to analyze service performance at both the Ethernet (MAC) and the IP channel level. The Channel Statistics option allows the Multitester to break down the traffic observed for up to 16,000 individual IP or MAC addresses. In addition, it identifies the IP and MAC address pairs of the various connections observed to relate test results to actual users in the network. A myriad of service complaints and network overload troubles can be efficiently diagnosed using this capability to quickly identify offending stations. Plus, having the test results linked to the MAC addresses carrying the IP traffic facilitates and simplifies layered troubleshooting.

Gigabit Ethernet
Features / Benefits

- The Traffic Generation application provides fast, efficient end-to-end testing with traffic generation capabilities up to full line rate and per port user definable:
  - IP and Ethernet source and destination addresses
  - Line load
  - Frame size
  - Frame rate
  - Frame contents
  - Error insertion
  - Subnet mask
  - Default gateway

  In addition to the basic Traffic Generator, the Model 500 Optical Multitester Gigabit Ethernet application also allows the transmit and receive statistics to be displayed simultaneously.

- The Multitester's ability to swap the MAC source and destination addresses provides a simple, logical loop back for single-ended link certification
- Automated RFC 2544 testing provides simple acquisition of:
  - Throughput
  - Frame loss
  - Latency
  - Burstability
- Adjustable thresholds enable unmistakable pass/fail test interpretation
- Powerful filtering features present only pertinent data

Gigabit Ethernet Specifications

Parameter	Specification
Ethernet Test Ports	(2) Gigabit optical and (2) 10/100/1000 Mb/s electrical
Optical Line Interfaces	Simultaneously hold any two, field swappable, industry standard 850 nm (SX), 1310 nm (LX) and 1550 nm (LD, ZX) GBICs
Electrical Line Interfaces	10/100/1000 Mb/s RJ-45 (unshielded and shielded twisted pair cables, category 3, 4, 5, 5E and 6) FDX and HDX operation

Ordering Information

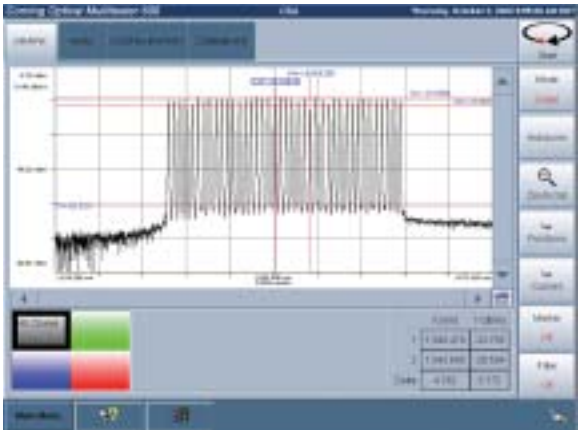
Part Number	Description
500-GIGE-MOD	10/100 Gigabit Ethernet Module, copper/optical (optical GBICs must be ordered separately)
500-GIGE-850	Optical GBIC Transceiver, 850 nm, for use with 500-GIGE-MOD
500-GIGE-1300	Optical GBIC Transceiver, 1300 nm, for use with 500-GIGE-MOD
500-GIGE-1550	Optical GBIC Transceiver, 1550 nm, for use with 500-GIGE-MOD
500-GIGE-STAT	Channel Statistics Option for 500-GIGE-MOD

Optical Spectrum Analysis Application

The Model 500 Optical Multitester's Optical Spectrum Analysis (OSA) application is the ideal single solution for facilitating accurate and efficient channel management, power balancing and tuning throughout the network.

The OSA application lowers DWDM installation and maintenance costs by providing industry-leading spectral analysis of system-critical parameters. Operating from 1450-1650 nm (S-, C-and L-bands), the OSA module for the Model 500 Optical Multitester maintains industry-leading accuracy performance over the entire temperature and spectral range. In addition, 30 dB of OSNR at ±25 GHz channel spacing is perfect for testing high-capacity DWDM systems.

Optical Spectrum Analysis 1 | Photo NS032



Optical Spectrum Analysis 2 | Photo NS033

Optical Spectrum Analysis Features / Benefits

- 30 dB of OSNR at ±25 GHz channel spacing
- +20 pm wavelength accuracy over spectrum and temperature
- +0.3 dB power accuracy over spectrum and temperature
- High-resolution, two-pass diffraction grating
- Wide spectral range for characterization of the S-, C-and L-bands with a single unit
- Channel Select option allows user to drop a wavelength
- Easy-to-use, one-button complete spectral characterization
- User-defined configurations for custom DWDM testing
- Reduced test time through targeted applications

Optical Spectrum Analysis Specifications

Parameter	Specification
Technology	Diffraction Grating
Wavelength Range	1450-1650 nm
Wavelength Accuracy	±20 pm (typical)
Wavelength Repeatability	±5 pm
Resolution Bandwidth	85 pm FWHM (typical)
Channel Spacing (minimum)	25 GHz
Power Range	+15 to -65 dBm
Power Accuracy	±0.3 dB over temperature and spectrum
Power Linearity	±0.1 dB
Power Repeatability	±0.1 dB
Stability	±0.2 dB per hour
Optical Signal to Noise Ratio	> 40 dB @ ±100 GHz > 35 dB @ ±50 GHz > 30 dB @ ±25 GHz (typ.)
Channel Table	256 simultaneous
Sweep Time	4 seconds typical over full spectrum
Polarization Dependence Loss	< ±0.05 dB
Optical Return Loss	> 35 dB
Internal Reference	Yes
Channel Drop Feature	5 dB maximum loss (optional)
Operating Temperature	0º to 40ºC (32º to 104ºF)
Storage Temperature Range	-20º to 70ºC (68º to 162ºF)
Humidity	95% RH non-condensing
Connector Types	Single-mode FC or SC (PC/Ultra polish)

Ordering Information

Part Number	Description
500-OSA-1-XXX	Optical Spectrum Analyzer Module; requires 500-MAINF-LDLX mainframe
500-OSA-2-XXX	Optical Spectrum Analyzer Module with channel selection option; requires 500-MAINF-LDLX mainframe

Chromatic Dispersion Application

The field-portable Model 500 Optical Multitester Chromatic Dispersion Measurement System is a dedicated module that, combined with the Multitester mainframe, will provide installers, network providers and network designers an advanced Chromatic Dispersion measurement instrument. The Model 500 Optical Multitester Chromatic Dispersion Measurement System is based upon the industry-accepted phase shift method that can evaluate chromatic dispersion of individual fiber links or entire networks consisting of multiple EDFAs. Utilizing a single fiber for the test, as well as a tunable laser, results in a reduction in the testing time and an increase in the accuracy of the measurement. This translates into improved network performance and efficiency, resulting in increasing revenue for the network provider. Corning Cable Systems understands how valuable your time is, so we have provided intuitive, easy-to-use set-up menus and single-button operation.

The Model 500 Optical Multitester Chromatic Dispersion Measurement System has been designed to provide optimal test efficiency to facilitate quicker turn-up of services and reduce the cost of testing. The Multitester provides complete control over the wavelengths measured, allowing for the instrument to be quickly configured to test only the specific wavelength areas of interest, increasing efficiency and saving valuable time. With intuitive set-up menus, the user is guided through a few minor settings that provide the industry's most accurate measurements of all fiber types.

The field-portable Model 500 Optical Multitester is the most versatile and accurate system available for chromatic dispersion measurements on all single-mode fiber types. It provides installers, carriers and system providers increased revenue through optimized network bandwidth while improving efficiency and reducing operational expenses through proper chromatic dispersion mitigation and compensation techniques.

Chromatic Dispersion | Photo NS037

Chromatic Dispersion | Photo NS038

Chromatic Dispersion Features / Benefits

- 1% measurement accuracy allows optimal chromatic dispersion compensation
- Dispersion, dispersion slope and spectral attenuation for all fiber types
- Extremely short test time–seconds per fiber
- Easy-to-use, automated software with one-button operation

Chromatic Dispersion Specifications

Parameter	Specification
Wavelength Range	1525-1625 nm
Wavelength Accuracy	40 pm
Wavelength Step Size	2-10 nm
Test Time	< 30 sec
Dynamic Range	> 40 dB
20 Accuracy	±0.5 nm
Dispersion Accuracy	±1.0% or ±0.05 ps/nm/km
Dispersion Slope Accuracy	±1.5%
Dispersion Measurement Range	6000 ps/nm for 2 nm step size
20 Repeatability	0.05 nm
Dispersion Slope Repeatability	0.1%
Number of Test Fibers Required	One
Fiber Access	Dual End
Test Through Multiple EDFAs	Yes

Ordering Information

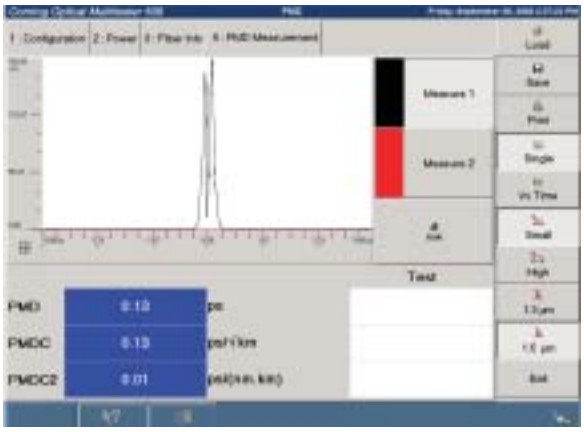
Part Number	Description
500-CD-PHASE	1550/1625 nm Extended Range Chromatic Module (> 40 dB)
500-CD38-1-XXX	Chromatic Module 38 dB 1310/1550/1625 nm
500-CD38-2-XXX	Chromatic Module 38 dB 1310/1550/1625 nm, light source, +10 dBm meter
500-CD38-3-XXX	Chromatic Module 38 dB 1310/1550/1625 nm, light source, +20 dBm meter

Polarization Mode Dispersion Application

The Model 500 Optical Multitester Polarization Mode Dispersion (PMD) application characterizes the data rate capability of each fiber and validates the fiber by transmitting at each fiber's maximum data rate in order to minimize the negative effects of PMD. This allows network providers to realize the full potential of their networks.

The Model 500 Optical Multitester PMD application employs the Michelson Interferometric technique, as recommended by EIA/TIA FOTP-124 and IEC-61941, to quickly and accuretely provide all of the necessary PMD parameters. At each measurement, the PMD coefficient and the second order PMD values are automatically computed in order to fully characterize each fiber for maximum data rate operation.

The interferometric method minimizes vibration effects to the fiber during measurement and does not require communications between the source and receiver, thus allowing characterization of cables prior to equipment installation.



Polarization Mode Dispersion | Photo NS034

Polarization Mode Dispersion Features / Benefits

- Fast measurement speed of 8 seconds per fiber
- Operates using a two-bay Model 500 Optical Multitester mainframe
- Operating wavelengths 1310 and 1550 nm
- Standard dynamic range 40 dB (optional 65 dB)
- Accuracy +/- 0.06 ps
- Repeatability +/- 0.06 ps

Polarization Mode Dispersion Specifications

Parameter	Specification
Operating Wavelengths	1310 nm and 1550 nm
Minimum Measurable PMD	0.06 ps
Random PMD Measurement Range	40 ps
Deterministics Measurement Range	80 ps
Standard Dynamic Range	40 dB
Optional Dynamic Range	65 dB
Accuracy	1% ±0.06 ps (for weakly coupled fiber)
Repeatability	1% ±0.06 ps (for strongly coupled fiber)

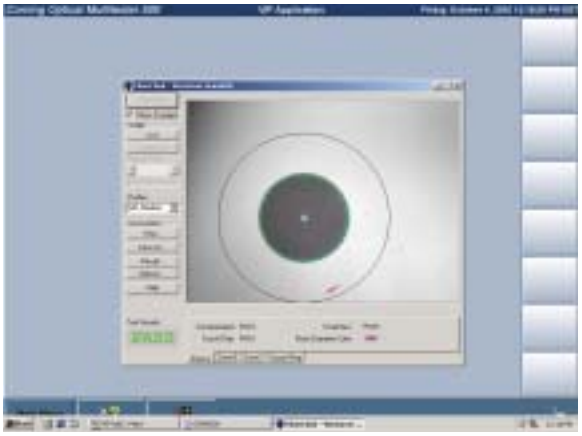
Ordering Information

Part Number	Description
500-PMD-FC	Model 500 Optical Multitester Polarization Mode Dispersion Module; requires 500-MAINF-LDLX mainframe
500-PMD-1315L	Model 500 Optical Multitester PMD 1310/1550 nm Light Source, low dynamic range
500-PMD-15H	Model 500 Optical Multitester PMD 1550 nm Light Source, high dynamic range

Video Inspection Probe Application

The Video Inspection Probe application for the Model 500 Optical Multitester gives operators a safe, easy way to analyze and document connector conditions. The Video Inspection Probe allows fiber optic connectors to be viewed, stored and analyzed through the USB port located on the mainframe. With system loss and return loss budgets tightening, connector quality and inspection have never been so important.

The Video Inspection Probe has various adapters available to allow direct viewing of patch cord endfaces and endfaces of connectors already installed in the patch panel. The probe also has an image-capture button conveniently located on the probe for one-handed operation.



Video Inspection Probe | Photo NS035

Talk Set Module Application

The Model 500 Optical Multitester Talk Set Module installs into one Multitester battery slot and allows duplex communication over a single dark fiber to another Multitester or stand-alone fiber talk set.

Talk Set Module | Photo LAN154

Video Inspection Probe Specifications

Parameter	Specification
Magnification	400x digital probe
Interface Connection	USB
Connector Tips	Standard: 1.25 mm and 2.5 mm Universal, FC, SC and ST® Compatible
Camera	1/3-in CCD
Operating Temperature	0° to +50°C (32° to 122°F)
Storage Temperature	-20° to +50°C (-40° to 122°F)
Filter	Up to +30 dBm
Software	Windows 2000, ME, XP compatible
Image Storage Format	JPEG, BMP, PNG

Ordering Information

Part Number	Description
500-VIDEO-STD	400x USB Connector Inspection Microscope
500-VIDEO-DLXUSB	400x USB Connector Inspection Microscope with Advanced Analysis Software (USB feature key)
500-VIDEO-DLXPAR	400x USB Connector Inspection Microscope with Advanced Analysis Software (parallel feature key)
500-OP-VID-FC	FC Bulkhead Tip for connector inspection microscope
500-OP-VID-AFC	FC/APC Bulkhead Tip for connector inspection microscope
500-OP-VID-LC	LC Bulkhead Tip for connector inspection microscope
500-OP-VID-ALC	LC/APC Bulkhead Tip for connector inspection microscope
500-OP-VID-MTRJ	MT-RJ Bulkhead Tip for connector inspection microscope
500-OP-VID-MU	MU Bulkhead Tip for connector inspection microscope
500-OP-VID-SC	SC Bulkhead Tip for connector inspection microscope
500-OP-VID-ASC	SC/APC Bulkhead Tip for connector inspection microscope
500-OP-VID-ST	ST® Compatible Bulkhead Tip for connector inspection microscope
500-OP-VID-E2	E2000 Bulkhead Tip for connector inspection microscope
500-OP-VID-BIC	Biconic Bulkhead Tip for connector inspection microscope
500-OP-VID-D4	D4 Bulkhead Tip for connector inspection microscope
500-OP-VID-U25	Universal 2.5 mm Patch Cord Tip for connector inspection microscope
500-OP-VID-U25A	Universal/APC 2.5 mm Patch Cord Tip for connector inspection microscope
500-OP-VID-U125	Universal 1.25 mm Patch Cord Tip for connector inspection microscope
500-OP-VID-CASE	Hard Case for connector inspection microscope
500-OP-VID-USB	Replacement USB converter for connector inspection microscope
500-OP-VID-P500	Replacement 400x Digital Probe for connector inspection microscope

Talk Set Module Specifications

Parameter	Specification
Center	1550 nm
Dynamic Range	> 45 dB
Transmission	Half Duplex
Fiber Type	SM
Range (Typical)	Up to 230 km
Dimensions (WxDxH)	150 x 85 x 40 mm (5.9 x 3.3 x 1.6 in)
Weight	0.5 kg (1.1lb)
Operating Temperature	0° to +45°C (32° to 113°F)
Storage Temperature	-40° to +60°C (-40° to 140°F)
Power Supply (3 way)	AC / Battery
Connectors Available	FC, SC and ST® Compatible

Ordering Information

Part Number	Description
500-TALKMOD-FC[1]	Optical Talk Set Module with Headphones, 45 dB, 1550 nm, FC
500-TALKMOD-SC[1]	Optical Talk Set Module with Headphones, 45 dB, 1550 nm, SC
500-TALKMOD-ST[1]	Optical Talk Set Module with Headphones, 45 dB, 1550 nm, ST Compatible
500-TALKADD-FC[2]	Stand-Alone Optical Test Set, 45 dB, 1550 nm, FC
500-TALKADD-SC[2]	Stand-Alone Optical Test Set, 45 dB, 1550 nm, SC
500-TALKKIT-FC	Optical Talk Set Module with Headphones and Stand-Alone Talk Set Kit, 45 dB, 1550 nm, FC
500-TALKKIT-SC	Optical Talk Set Module with Headphones and Stand-Alone Talk Set Kit, 45 dB, 1550 nm, SC
500-TALKKIT-ST	Optical Talk Set Module with Headphones and Stand-Alone Talk Set Kit, 45 dB, 1550 nm, ST Compatible
500-OP-HEADSET	Spare Headset for 500-series talk set units

Notes:
[1] *Requires second 500 OTDR or 500-TALKADD to create complete set.*
[2] *Requires remote 500 OTDR with 500-TALKMOD to create complete set.*

Model 500 Optical Multitester

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Corning
Cable Systems

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
1-800-743-2675 • FAX: +1-828-901-5973 • International: +1-828-901-5000 • http://www.corning.com/cablesystems

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