

CMA 50

Loss Test Set



Includes EZTest one button bi-directional measurement option.
Allows testing of end-to-end PON links with a single operator.

Fast and easy-to-use, NetTest's CMA 50 line of Loss Test Sets is designed for both attenuation and power throughput measurements on fiber optic links. They are offered with common calibration wavelength and connector options to meet any testing requirement from FTTx networks to long haul telephony links to multimode LAN, and CATV.

CMA 50 Loss Test Sets can make your measuring experience simple and error free, with bi-directional testing option, pass or fail threshold analysis, large capacity for test results storage, and RJ45 interface Network Testing option. The light-weight, rugged design, assures that they are built for the most demanding cable installation environments and will provide years of valuable service.

Key Benefits

- **Up to 4 high power sources per unit, out of a single port.**
- **EZTest one button Bidirectional measurement option.**
- **Pass or fail indicators for in-field compliance.**
- **Rugged design withstands years of use in the most challenging environments.**
- **Stores up to 100,000 data sets (4 MB of user data).**
- **Visual Fault Location source option.**
- **LAN Access and network testing option via RJ45 port.**
- **File Transfer via USB port.**
- **Three year warranty.**

Notes

- ¹ Typical specs at 23°C
- ² 50LTS8335 unit has one port for Single Mode Fiber and one port for Multi Mode Fiber
- ³ ±0.3dB uncertainty from 900nm to 1625nm over operating temperature range
- ⁴ NIST traceable. Calibrated at 23°C, 1310nm and -10dBm power input
- ⁵ at 23°C excluding top 5dB and bottom 10dB

Dual Wavelength Variant		
Model	50LTS35	50LTS83
Emitter Type	Laser Diode	LED
Wavelength (nm) ¹	1310/1550 ±20 nm	850/1300 ±20 nm
Output Power	-7dBm (G.652 Fiber)	-18dBm (62.5/125µm fiber)
Source Linewidth (FWHM)	<5nm/<5nm	<50 nm/<150 nm

Tri Wavelength Variant		
Model	50LTS345	50LTS356
Emitter Type	Laser Diode	Laser Diode
Wavelength (nm) ¹	1310/1490/1550 ±20nm	1310/1550/1625 ±20nm
Output Power (G.652 Fiber)	-7dBm for 1310nm, 1490nm and 1550nm	-7dBm for 1310nm, 1550nm and 1625nm
Source Linewidth (FWHM)	<5nm	<5nm

Quad Wavelength Variant		
Model	50LTS3456	50LTS8335 ²
Emitter Type	Laser Diode	LED on MM port, Laser Diode on SM port
Wavelength (nm) ¹	1310/1490/1550/1625 ±20nm	850/1300/1310/1550/ ±20nm
Output Power	-7dBm (G.652 Fiber)	-7dBm (G.652 Fiber) / -18dBm (62.5/125µm fiber)
Source Linewidth (FWHM)	<5 nm	<50nm/<150nm/<5nm/<5nm

Power Meter Port Specifications		
Model	Standard	C Option
Wavelength of Operation	850, 1300, 1310, 1490, 1550, 1625nm and all standard CWDM wavelengths	850, 1300, 1310, 1490, 1550, 1625nm and all standard CWDM wavelengths
Measured Power Range ³	+10dBm to -75dBm	+30dBm to -55dBm
Calibration Accuracy ⁴	±0.2dB	±0.2dB
Linearity ⁵	±0.1dB	±0.1dB

General Specifications	
Modulation Modes	CW, modulation for fiber recognition or 2kHz
Stability (1 hours)	±0.05dB at 1310 and 1550nm; ±0.15dB at 1490 and 1625nm
Modulation Detection	2kHz modulation recognition.
Wavelength recognition	Automatic recognition of calibrated wavelengths (when used in conjunction with a CMA 50 light source or LTS)
Display Resolution	0.01 (dB/mW/μW/nW)
Power	Rechargeable battery pack, 4 AA batteries or 110/220 V AC adapter
Auto shutoff	After 10 minutes (Function can be disabled)
Connector Style	FC, SC, ST, DIN, LC
Operating Temperature Range	-10°C to +50°C
Storage Temperature Range	-40°C to +60°C
Dimensions	210 mm x 110 mm x 41.3 mm
Weight	< 550g (including batteries)
Warranty	3 years

Options	
V Option Visual Fault Locator	Visible laser source at 650 nm allowing to visually detect a fiber fault up to 5km
N Option Network Test	LAN access and network level continuity and frame time delay through TCP/IP protocol over its built-in 10/100Mbps Network Interface Card.
B Option EZTest	One button multiple wavelength bi-directional measurement.



NetTest North America Inc.

Center Green, Building 4
6 Rhoads Drive
Utica, NY 13502 USA
Toll Free: 1 800 443 6154
Tel: +1 315 266 5000
Fax: +1 315 798 4038
E-mail: info@nettest.com
Web: www.nettest.com

NetTest Sales Offices

China	+86 10 6467 9888	Italy	+39 06 43 36 24 00
Denmark	+45 72 11 22 00	Singapore	+65 6220 9575
France	+33 1 64 53 64 00	Spain	+34 91 372 92 27
Germany	+49 89 99 89 01-0	USA	+1 315 266 5000

NetTest develops and markets operational support solutions that provide unique insights into the function and performance of telecommunication networks so that owners, operators, and vendors can make informed business decisions that drive their profitability.