

# CMA 50

## Light Sources



**Includes auto-wavelength switching mode**  
Allows characterization of a link at multiple wavelength with the touch of one button.

Fast and easy-to-use, NetTest's CMA 50 line of Light Sources provides stable output for point-to-point attenuation measurements or modulated tones for easy fiber identification. They are offered in a variety of wavelength combinations and connector options to meet any testing requirement from FTTx networks to long haul telephony links to multimode LAN, and CATV.

All CMA 50 Light Sources feature our exclusive auto-wavelength switching mode that automatically alternates wavelengths and synchronizes them with the CMA 50 Power Meter Series, greatly reducing test time and virtually eliminating measurement errors. The lightweight, rugged design, assures that they are built for the most demanding installation environments and will provide years of valuable service.

#### Key Benefits

- **Up to 4 sources per unit, out of a single port.**
- **High power and stable output for high dynamic range testing and accurate loss readings.**
- **Auto-wavelength switching provides fast and accurate results.**
- **Rugged design withstands years of use in the most challenging environments.**
- **Visual Fault Location source option.**
- **Powered with rechargeable battery pack or four standard AA batteries.**
- **LAN Access and network testing option via RJ45 port.**
- **Interchangeable optical connectors.**
- **Three year warranty.**

**Notes**<sup>1</sup> Typical specs at 23°C<sup>2</sup> 50LS8335 unit has one port for Single Mode Fiber and one port for Multi Mode Fiber

Dual Wavelength Light Source		
Model	50LS35	50LS83
Emitter Type	Laser Diode	LED
Wavelength (nm) <sup>1</sup>	1310/1550 ±20 nm	850/1300 ±20 nm
Output Power	-7dBm (G.652 Fiber)	-18dBm (62.5/125µm fiber)
Source Linewidth (FWHM)	<5 nm/<5 nm	<50 nm/<150 nm

Tri Wavelength Light Source		
Model	50LS345	50LS356
Emitter Type	Laser Diode	Laser Diode
Wavelength (nm) <sup>1</sup>	1310/1490/1550 ±20 nm	1310/1550/1625 ±20 nm
Output Power (G.652 Fiber)	-7dBm for 1310nm, 1490nm and 1550nm	-7dBm for 1310nm, 1550nm and 1625nm
Source Linewidth (FWHM)	<5 nm	<5 nm

Quad Wavelength Light Source		
Model	50LS3456	50LS8335 <sup>2</sup>
Emitter Type	Laser Diode	LED on MM port, Laser Diode on SM port
Wavelength (nm) <sup>1</sup>	1310/1490/1550/1625 ±20 nm	850/1300/1310/1550/ ±20 nm
Output Power	-7dBm (G.652 Fiber)	-7dBm (G.652 Fiber) / -18dBm (62.5/125 m fiber)
Source Linewidth (FWHM)	<5 nm	<50nm/<150nm/<5nm/<5nm

General Specifications	
<b>Stability (1 hours)</b>	±0.05dB at 1310 and 1550nm; ±0.15dB at 1490 and 1625nm
<b>Output Modes</b>	CW, 2kHz
<b>Wavelength Identification</b>	Compatible with CMA 50 power meter or LTS for automatic recognition
<b>Power</b>	Rechargeable battery pack, 4 AA batteries or 110/220 V AC adapter
<b>Auto Shutoff</b>	After 10 minutes (Function can be disabled)
<b>Connector Style</b>	FC, SC, ST, DIN, LC
<b>Operating Temperature Range</b>	-10°C to +50°C
<b>Storage Temperature Range</b>	-40°C to +60°C
<b>Dimensions</b>	210 mm x 110 mm x 41.3 mm
<b>Weight</b>	< 550g (including batteries)
<b>Warranty</b>	3 Years

Options	
<b>N Option</b> 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>V Option</b> Visual Fault Locator	Visible laser source at 650 nm allowing to visually detect a fiber fault up to 5km



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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.