

# MLS1000

## Multimode Light Source



- 850 and 1300 nm LED source
- High stability output
- Temperature compensated
- Continuous and modulated outputs
- Exceptional battery life
- Ruggedised waterproof housing to IP54
- 3 Year manufacturers warranty
- Dry Cell or Rechargeable operation

### DESCRIPTION

The MLS1000 is a stable optical dual LED source that can be used in conjunction with an optical power meter for optical loss testing of fiber optic cables. It has been designed to output 850nm or 1300nm at a level of -20 dBm into a 62.5/125 multi-mode fibre.

It is particularly suitable for the testing of LAN's, FDDI, and other multimode links whether inside or outside a building.

Although the MLS1000's main use is in multimode fiber optic cable loss testing, other applications include fiber continuity testing, connector testing, and patch lead testing.

Both CW (constant wave) and modulated outputs are available with LED mode indication.

Battery status warning provides battery condition indication. An optical charger is available when rechargeable batteries are fitted.

### SPECIFICATION

#### Source Type:

Two LED's

#### Wavelength:

850nm & 1300nm typical

#### Wavelength Accuracy:

± 30nm

#### Output Level:

Typically >-20dBm into 62.5/125 multimode fiber

#### Output Stability:

Typically <0.1dB over 1hour at 23 Centigrade

#### Output:

Continuous or 1kHz Modulated

#### Batteries:

2 x AA Alkaline Cells (NiMh on NiCad can be used)

#### Battery Life:

50 hours continuous  
80 hours modulated

#### Power Input:

Can operate and charge internal batteries using optional charger

#### Optical Connector:

Supplied with ST connectors.

#### Safety:

Laser Class 1

#### Case Dimensions:

160 mm x 83 mm x 30 mm

#### Instrument Weight:

220g

#### Operational Temperature:

-15°C to +50°C (5°F to 122°F)

#### Operational Humidity:

95% at 40°C (104°F)

#### Storage Temperature:

-20°C to 70°C (-4°F to 158°F)

**ORDERING INFORMATION**

| Item  | Order Code | Item   | Order Code |
|---|------------|--|------------|
| Multimode light source with ST connector                        | MLS1000    | In-line gender changing adaptor with Multimode ST connectors   | 22440-019  |
| <b>Included Accessories</b>                                     |            | In-line gender changing adaptor with Single mode SC connectors | 22440-020  |
| User Guide  | 6172-626   | In-line gender changing adaptor with Multimode SC connectors   | 22440-021  |
| Test & Carry Pouch  | 6220-714   | In-line gender changing adaptor with Single mode ST connectors | 22440-022  |
| <b>Optional Accessories</b>                                     |            | In-line gender changing adaptor with Single mode FC connectors | 22440-003  |
| Single Mode Patch Cord with FC / SC Connectors (3 metres)       | 22440-007  | Bare Fiber adaptor SC connector                                | 25970-034  |
| Single Mode Patch Cord with FC / FC Connectors (3 metres)       | 22440-008  | Bare Fiber adaptor FC connector                                | 25970-035  |
| Single Mode Patch Cord with FC / ST Connectors (3 metres)       | 22440-009  | Bare Fiber adaptor ST connector                                | 25970-036  |
| Single Mode Patch Cord with ST / ST Connectors (3 metres)       | 22440-015  | Bare Fiber adaptor SC, ST and FC connectors                    | 25970-037  |
| Single mode patch cord with ST/SC connectors (3 metres)         | 22440-027  | UK DC Power Supply   | 27900-050  |
| Single Mode Patch Cord with SC / SC Connectors (3 metres)       | 22440-016  | USA DC Power Supply  | 27900-051  |
| Multimode Patch Cord with FC / FC Connectors (3 metres) 50 µm   | 22440-010  | EU DC Power Supply   | 27900-052  |
| Multimode Patch Cord with FC / ST Connectors (3 metres) 50µm    | 22440-011  |  |            |
| Multimode Patch Cord with FC / SC Connectors (3 metres) 50 µm   | 22440-012  |  |            |
| Multimode Patch Cord with ST / ST Connectors (3 metres) 50 µm   | 22440-013  |  |            |
| Multimode Patch Cord with ST / SC Connectors (3 metres) 50 µm   | 22440-014  |  |            |
| Multimode Patch Cord with SC / SC Connectors (3 metres) 50 µm   | 22440-017  |  |            |
| Multimode Patch Cord with FC / ST Connectors (3 metres) 62.5 µm | 22440-028  |  |            |
| Multimode Patch Cord with ST / ST Connectors (3 metres) 62.5 µm | 22440-029  |  |            |
| Multimode Patch Cord with ST / SC Connectors (3 metres) 62.5 µm | 22440-030  |  |            |
| Multimode Patch Cord with FC / SC Connectors (3 metres) 62.5 µm | 22440-031  |  |            |
| Multimode Patch Cord with SC / SC Connectors (3 metres) 62.5 µm | 22440-032  |  |            |
| Multimode Patch Cord with FC / FC Connectors (3 metres) 62.5 µm | 22440-033  |  |            |

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