

## Features

- Stable 850nm and 1310nm output wavelengths
- Compatible with single-mode and multimode optical fibers
- Precision Universal Connector Interfaces (UCI) adapt to all industry standard fiber optic connectors
- Overfills most graded-index multimode fibers
- Achieves various controlled launch conditions by wrapping the reference cable in use around a mandrel
- Easy to use and maintain
- Operates on 110 to 240VAC, 50 to 60Hz input power



## Applications

### Insertion Loss and Link Loss Testing

The 752R is a versatile, stable 850nm and 1310nm LED source suitable for single-mode and multimode optical fibers. Both outputs are designed to achieve an overfill launch condition into most graded-index multimode fibers used for telecommunication systems, data communication networks, and other applications.

Used with an optical power meter such as the 575L or 577L, the 752R is an ideal LED source for performing insertion loss and link loss measurements in manufacturing or laboratory settings. The simple, user-friendly design leaves little chance for operator error, and the robust construction of the unit allows it to withstand constant use.

Various controlled launch conditions can be induced with the 752R by wrapping the reference cable in use around a mandrel to affect the modal distribution inside the fiber.

The 752R automatically adapts to AC input from 110 to 240 volts, 50 to 60 Hz, making it suitable for use in many countries around the world.

Two Universal Connector Interfaces (UCI) on the 752R ensure optimal measurement accuracy and repeatability. A pair of customer-specified UCI adapters is included with the instrument. Additional UCI adapters are available for all industry standard fiber optic connector types.

## Key Specifications

Wavelength (mean)	850nm	1310nm
Spectral width (FWHM)	< 70nm	<150nm
Wavelength stability	±2nm	±2nm
Output power into:		
100/140µm GI MM	-13dBm	-17dBm
62.5/125µm GI MM	-17dBm	-21dBm
50/125µm GI MM	-21.5dBm	-25dBm
SMF-28	N/A	-40dBm
Power stability	±0.03dB	±0.03dB

### Ordering Information

Two Universal Connector Interface (UCI) adapters, a power cord, and a user manual are included with the 752L dual LED source. Please specify the desired connector adapter types when ordering using the UCI Adapter Table, below. Additional UCI adapters may also be ordered separately.

Part No.	Description
752L	752L dual LED source

### UCI Adapter Table

Adapter Code	Connector Type
AD-234	DIN 47256
AE2-10	Diamond E-2000
APC-10	NTT/FC-PC
AMS-00	Diamond HMS-0 (3.5mm)
AMT-10	Diamond HMS-10A (SMA-2.5)
ASM-90	SMA-905/906
AHP-10	HMS-10/HP (2.5mm)
AML-38	MIL-T-29504/4 and /5
ASC-10	NTT/SC-PC
ATS-16	AT&T/ST-PC

### Accessories

930	19-inch rack-mount adapter
0934-27	Mandrel for inducing controlled launch conditions

### Specifications<sup>1</sup>

*Subject to change without notice*

<b>Wavelength:</b>		
<b>Nominal (mean) Range</b>	850nm 840nm to 880nm	1310nm 1270nm to 1345nm
<b>Spectral width</b>	< 70nm	< 150nm
<b>Wavelength stability, +10°C to +30°C</b>	±2nm	±2nm
<b>Typical power output into<sup>2</sup>:</b>		
100/140µm GI MM, 0.29NA	-13dBm	-17dBm
62.5/125µm GI MM, 0.29NA	-17dBm	-21dBm
50/125µm GI MM, 0.22NA	-21.5dBm	-25dBm
SMF-28	N/A	-40dBm
<b>Minimum power output into 100/140µm GI MM, 0.29 NA</b>	-13dBm	-17dBm
<b>Power stability, after 15 minute warm-up</b>	±0.03dB	±0.03dB
<b>Power requirements</b>	110VAC to 240VAC, 50 to 60Hz	
<b>Environmental:</b>		
<b>Operating temp.</b>	+5°C to +35°C	
<b>Storage temp.</b>	-15°C to +70°C	
<b>Humidity</b>	0 to 95% RH, non-condensing	
<b>Dimensions</b>	8 x 19 x 29 cm (3.125 x 7.375 x 11.375 in.)	
<b>Weight</b>	2.00kg (4.5 lbs.)	

<sup>1</sup> Within specified ambient environment of +20°C to +25°C.

<sup>2</sup> Approximate power levels. Unit is calibrated using 100/140µm GI MM fiber.

