

### 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)</b>                                     | 850nm                                       | 1310nm           |
| <b>Range</b>  | 840nm to 880nm                              | 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.