

Features

- 850nm and 1300nm wavelengths
- Stable calibrated output
- Proven, reliable, and compact design
- Easy to use—three buttons control all essential functions
- Continuous wave and modulated output modes
- Precision Universal Connector Interfaces (UCI) adapt to all industry standard fiber optic connectors
- Long battery life—more than 24 hours of continuous operation
- User-selectable auto-shutoff
- AC power converter and adapter available for prolonged or benchtop use
- Rugged and splashproof
- Controlled launch condition versions available—contact RIFOCS Corp. for more information



Applications

Insertion Loss and Link Loss Testing

Paired with a RIFOCS 555B or 557B optical power meter, the 252A serves as an economical dual wavelength LED source for testing the insertion loss of multimode and single-mode fiber optic cables and connectors. The 252A can also be used with an optical power meter for link loss testing of installed cable plants.

The 850nm and 1300nm calibrated output wavelengths make the 252A dual LED source particularly useful for testing and maintaining local area networks (LANs), premises networks, and fiber distributed data interfaces (FDDI).

The 252A dual LED source is fitted with precision Universal Connector Interfaces (UCI), which ensure maximum accuracy and repeatability when performing critical measurements on fiber optic systems. A comprehensive range of UCI adapters is available for all industry standard fiber optic connectors.

In addition, controlled launch condition versions of the 252A are available to meet the demanding requirements of military, aerospace, shipboard, and transportation applications. Call RIFOCS Corp., or your local RIFOCS representative for more information.

Key Specifications

Nominal wavelengths	850nm	1300nm
Wavelength range	840-880nm	1270-1345nm
Max. spectral width	55nm	150nm
Stability, 1 hour	±0.05dB	±0.05dB
Power output into:		
100/140µm GI MM	-13dBm	-20dBm
62.5/125µm GI MM	-13dBm	-20dBm
50/125µm GI MM	-14dBm	-21dBm
9/125µm SM	N/A	-38dBm
Power output uncertainty	±0.5dB	±0.5dB

Ordering Information

Two Universal Connector Interface (UCI) adapters are included with the 252A 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
252A	252A dual LED source
90AC	AC power converter

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

Specifications¹

Subject to change without notice

Center wavelengths:

Nominal	850nm	1300nm
Range (typical)	840nm to 880nm	1270nm to 1345nm

Max. spectral width (FWHM)

850nm	55nm	150nm
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Stability, 1 hour

850nm	±0.05dB	±0.05dB
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Power output into:

100/140µm GI MM	-13dBm	-20dBm
62.5/125µm GI MM	-13dBm ²	-20dBm ²
50/125µm GI MM	-14dBm	-21dBm
9/125 SM	N/A	-38dBm

Power output uncertainty

850nm	±0.5dB	±0.5dB
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Modulation frequencies

270Hz, 1kHz, and 2kHz ±0.5%

Power requirements

Two AA-size 1.5V alkaline batteries provide more than 24 hours of continuous operation

Connector interface

Universal Connector Interface (UCI)

Environmental:

Operating temp.	-15°C to +55°C
Storage temp.	-35°C to +70°C
Humidity	0 to 95% RH, non-condensing

Dimensions

7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)

Weight

241g (8.5 oz.)

CE

EN61010; EN50081-1: 1992; EN55011, Group 1, Class A;
 EN50082-1: 1992; IEC 801-2, -3, -4

¹ Within specified ambient environment of +20°C to +25°C.

² Calibrated launch level, Equilibrium Modal Distribution (EMD).

