257A
850nm LED Source

Features

- 850nm wavelength
- Stable calibrated output
- Proven, reliable, and compact design
- Easy to use—two buttons control all essential functions
- Continuous wave and modulated output modes
- Precision Universal Connector Interface (UCI) adapts 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

Key Specifications

Nominal wavelength	850nm
Wavelength range	840-880nm
Max. spectral width	55nm
Stability, 1 hour	±0.05dB
Typical power output:	
100/140µm GI MM	-13dBm
62.5/125µm GI MM	-13dBm
50/125µm GI MM	-14dBm
Power output uncertainty	±0.5dB

Applications

Insertion Loss and Link Loss Testing

Paired with a RIFOCS 555B or 557B optical power meter, the 257A serves as an ideal 850nm LED source for testing the insertion loss of multimode fiber optic cables and connectors accurately and efficiently. The 257A can also be used with an optical power meter for link loss testing of installed cable plants.

With a calibrated launch optimized for 62.5/125µm graded-index multimode fiber, the 257A LED source is particularly useful for testing and maintaining local area networks (LANs), premises networks, fiber distributed data interfaces (FDDI), and some telecommunications systems. The 257A may also be used for other multimode fiber types.

The 257A LED source is fitted with a precision Universal Connector Interface (UCI), which ensures 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 257A 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 regarding the controlled launch condition versions available.

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Phone: (805) 389-9800 Fax: (805) 389-9808
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Ordering Information

One Universal Connector Interface (UCI) adapter is included with the 257A LED source. Please specify the desired connector adapter type when ordering using the UCI Adapter Table, below. Additional UCI adapters may also be ordered separately.

Part No.	Description
257A	257A 850nm 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

Specifications[1]

Subject to change without notice

Center wavelength:	
Nominal	850nm
Range (typical)	840nm to 880nm
Max. spectral width (FWHM)	35nm
Stability, 1 hour	±0.05dB
Typical power output into:	
100/140µm GI MM	-13dBm
62.5/125µm GI MM	-13dBm[2]
50/125µm GI MM	-14dBm
200/230 SI MM	-13dBm
Power output uncertainty	±0.5dB
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, physical contact (UCI-PC)
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	215g (7.6 oz.)
CE	EN61010; EN50081-1: 1992; EN55011, Group I, 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).

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