fiberTOOLS™

255A
1300nm LED Source

Features

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

Applications

Insertion Loss and Link Loss Testing

Paired with a RIFOCS 555B or 557B optical power meter, the 255A serves as an ideal 1300nm LED source for testing the insertion loss of multimode and single-mode fiber optic cables and connectors. The 255A 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 255A 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 255A may also be used for other multimode and single-mode fiber types.

The 255A 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 255A 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.

RIFOCS Corporation
Fiber Optic Instruments & Components

1340 Flynn Rd. Camarillo, CA 93012
Phone: (805) 389-9800 Fax: (805) 389-9808
http://www.rifocs.com

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Ordering Information

One Universal Connector Interface (UCI) adapter is included with the 255A 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
255A	255A 1300nm 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	1300nm
Range (typical)	1270nm to 1345nm
Max. spectral width (FWHM)	150nm
Stability, 1 hour	±0.05dB
Power output into:	
100/140µm GI MM	-20dBm
62.5/125µm GI MM	-20dBm[2]
50/125µm GI MM	-21dBm
9/125 SM	-38dBm
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 (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	215g (7.6 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).

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ISO 9001
DS-HH255A Rev. A

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