

266A | 1550nm Laser Source

APPLICATIONS:

Insertion Loss and Link Loss Testing

Paired with a RIFOCS 555B or 558B optical power meter, the 266A serves as an ideal general purpose 1550nm laser source for measuring the insertion loss of single-mode fiber optic cables and connectors. The 266A can also be used with an optical power meter for link loss testing of installed cable plants.

The 266A laser source is particularly useful for testing and maintaining telecommunications systems and other long wavelength single-mode fiber optic networks operating at 1550nm.

The 266A laser 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.



FEATURES

- 1550nm 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 80 hours of continuous operation
- User-selectable auto-shutoff
- AC power converter and adapter available for prolonged or benchtop use
- Rugged and splashproof

KEY SPECIFICATIONS

Nominal wavelengths	1550nm
Wavelength range	±30nm
Spectral width (RMS)	< 5nm
Stability:	
1 hr. max. deviation	< 0.03dB
10 hrs. max. deviation	< 0.10dB
24 hrs. max. deviation	±0.2dB
Power vs. temperature	±0.5dB
Power output:	
Minimum	-8dBm
Typical (±0.5dB)	-7dBm

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SPECIFICATIONS¹

Subject to change without notice

Center wavelengths:

Nominal	1550nm
Range (typical)	±30nm
Spectral width (RMS)	< 5nm

Stability:

1 hour maximum deviation	< 0.03dB
10 hours maximum deviation	< 0.10dB
24 hours maximum deviation	±0.2dB
Power vs. temperature ²	±0.5dB

Power output:

Minimum	-8dBm
Typical (factory adjusted)	-7dBm ±0.5dB

Modulation frequencies

270Hz, 1kHz, and 2kHz ±5%

Power requirements

Two AA-size 1.5V alkaline batteries provide more than 80 hours of continuous operation

Connector interface

Universal Connector Interface (UCI)

Environmental:

Operating temp.	-15°C to +55°C
Storage temp.	-30°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.)

CDRH laser class

Class I

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

² Instrument is ramped-up from -15°C to +55°C in 5° steps. The instrument is allowed to stabilize at each of these temperatures for 10 minutes. The initial reference power level is measured at approximately +25°C.

ORDERING INFORMATION

User will need to purchase a Universal Connector Interface (UCI) adapter for use of the instrument. Please specify the desired connector adapter type when ordering (see Adapter Table below). Additional UCI adapters may also be ordered separately.

Part No.	Description
266A	266A 1550nm laser source
90AC	AC power converter

UCI Adapter Table

Adapter Code	Connector Type
AD-108	DIN 47256
AE2-10	Diamond E-2000
APC-108	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-108	NTT/SC-PC
ATS-108	AT&T/ST-PC

