# 262A | 1310nm & 1550nm Dual Laser Source

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## APPLICATIONS:

**Insertion Loss and Link Loss Testing**
Paired with a Tempo 555B or 558B optical power meter, the 262A serves as an ideal general purpose dual laser source for measuring the insertion loss of single-mode fiber optic cables and connectors. With output at 1310 nm and 1550nm, the 262A can also be used with an optical power meter for dual wavelength link loss testing of installed cable plants.

The 262A dual laser source is particularly useful for testing and maintaining telecommunications systems and other long wavelength single-mode fiber optic networks. The single output interface allows the user to perform fiber optic measurements at the 1310nm or 1550nm transmission windows by pressing a button, eliminating the need to disconnect and reconnect cables when changing wavelengths.

The 262A Dual 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

- 1310nm and 1550nm wavelengths
- Fabry-Perot laser diodes
- Single output interface simplifies dual wavelength measurements
- 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 Interface (UCI) adapts to all industry standard fiber optic connectors
- Long battery life—more than 50 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** | 1310nm 1550nm |
| **Wavelength range** | 1280-1340nm |
| | 1520-1580nm |
| **Spectral width (RMS)** | < 5nm < 5nm |
| **Stability:** | |
| **1 hr. max. deviation** | ±0.05dB ±0.05dB |
| **10 hrs. max. deviation** | ±0.15dB ±0.15dB |
| **24 hrs. max. deviation** | ±0.2dB ±0.2dB |
| **Power vs. temperature** | ±0.5dB ±0.5dB |
| **Power output:** | |
| **Minimum** | -8dBm -8dBm |
| **Typical** | (±0.75dB) -7dBm -7dBm |



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# 262A | 1310nm & 1550nm Dual Laser Source

## SPECIFICATIONS[1]

*Subject to change without notice*

| | |
|---|---|
| **Center wavelengths:** | |
| **Nominal** | 1310nm 1550nm |
| **Range (typical)** | 1280nm to 1340nm 1520nm to 1580nm |
| **Spectral width (RMS)** | < 5nm < 5nm |
| **Stability:** | |
| **1 hour maximum deviation** | ±0.05dB ±0.05dB |
| **10 hours maximum deviation** | ±0.15dB ±0.15dB |
| **24 hours maximum deviation** | ±0.2dB ±0.2dB |
| **Power vs. temperature** | 4 ±0.5dB ±0.5dB |
| **Power output[2, 3]:** | |
| **Minimum** | -8dBm -8dBm |
| **Typical (factory adjusted)** | -7dBm ±0.75dB -7dBm ±0.75dB |
| **Modulation frequencies** | 270Hz, 1kHz, and 2kHz ±5% |
| **Power requirements** | Two AA-size 1.5V alkaline batteries provide more than 50 hours of continuous operation |
| **Connector interface** | Universal Connector Interface, physical contact (UCI-PC) |
| **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** | 227g (8 oz.) |
| **CDRH laser class** | Class I |

[1] Within specified ambient environment of +20°C to +25°C.
[2] In modulated mode power is 3dB lower.
[3] With return loss > 30dB.
[4] 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 |
|---|---|
| 262A | Dual Laser Source (1310nm/1550nm) |

**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 |

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