

**Applications:**

- Optical coherence tomography
- Optical metrology
- Optical measurements

**Features:**

- Wide optical spectrum: 150-nm FWHM
- Coherence length\* of less than 3  $\mu\text{m}$  (in air)
- High output power
- Low Relative Intensity Noise (RIN)

\* Coherence length is determined as full width at half maximum of the coherence function plotted versus mirror displacement.

**Specifications:**

Parameter	P/N	Min	Typ	Max
SM-fiber output power, mW	D-890-HP	5	6	-
Mean wavelength, nm	All	-	890	-
Bandwidth ( FWHM), nm	All	140	150	-
Residual spectral modulation depth (0.05 nm resolution), %	All	-	2	5
Spectral flatness, %	All	-	30	45
Long-term stability, %**	All	±0.5		
Short-term stability, %***	All	±0.1		

\*\* Measurements taken every minute for 8 hours with 100 ms integration time.

\*\*\* Measurements taken every second for 15 minutes with 100 ms integration time.

All measurements were taken after a one-hour warm-up period at an ambient temperature of  $22 \pm 0.5$  °C.

More powerful versions (up to 9 mW) are available upon request.

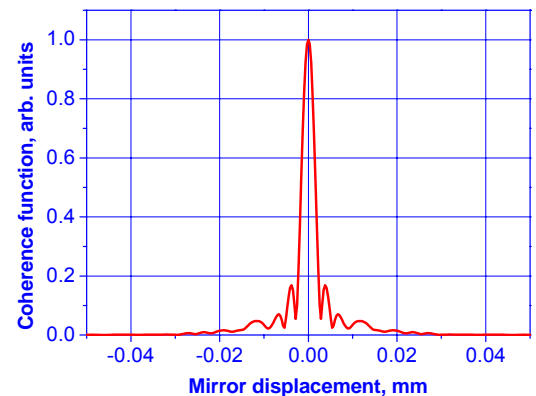
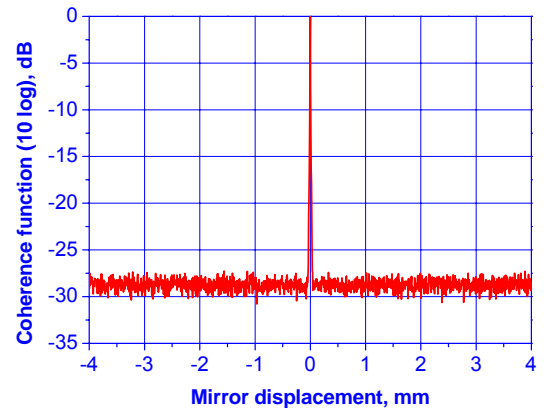
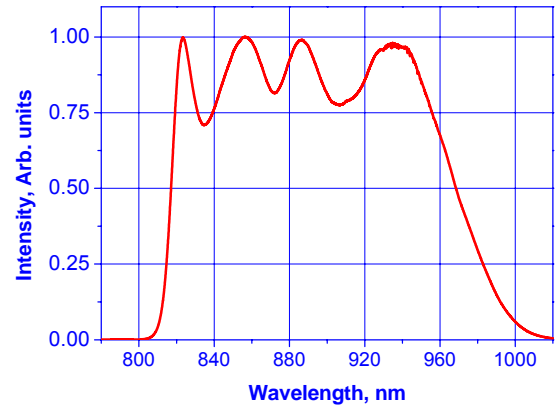
**Power requirements:** 110 V AC or 220 V AC, 50/60 Hz

**Operating temperature range:** 0 °C to +40 °C

**Optical output:** FC/APC

**Fiber:** Corning HI 780

A maximum feedback of -25 dB is allowed to run Broadlighter D-890-HP safely at full power.

**PERFORMANCE EXAMPLES**

Mirror displacement = Optical path difference / 2.  
Spatial resolution of measurements is 0.5  $\mu\text{m}$ .

All specifications are subject to change without notice