

**Applications:**

- Optical coherence tomography
- Optical metrology
- Optical measurements

**Features:**

- Wide optical spectrum: 200-nm FWHM
- Coherence length\* of less than 2 μm (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  | Min  | Typ | Max |
|--|------|-----|-----|
| SM-fiber output power, mW                                  | 4    | 5   | -   |
| Mean wavelength, nm  | -    | 870 | -   |
| Bandwidth (FWHM), nm                                       | -    | 200 | -   |
| Residual spectral modulation depth (0.05 nm resolution), % | -    | 2   | 5   |
| Spectral flatness, %                                       | -    | -   | 45  |
| Long-term stability, %**                                   | ±0.5 |     |     |
| Short-term stability, %***                                 | ±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 ± 0.5 °C.

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

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

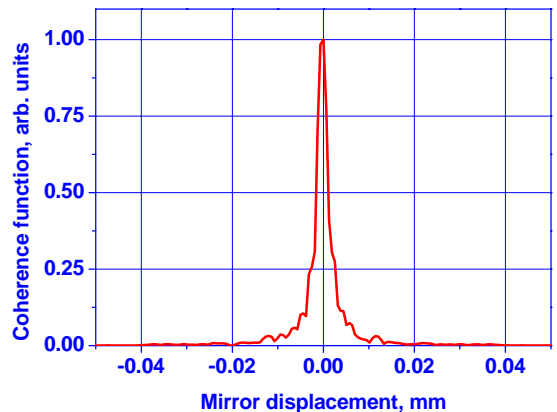
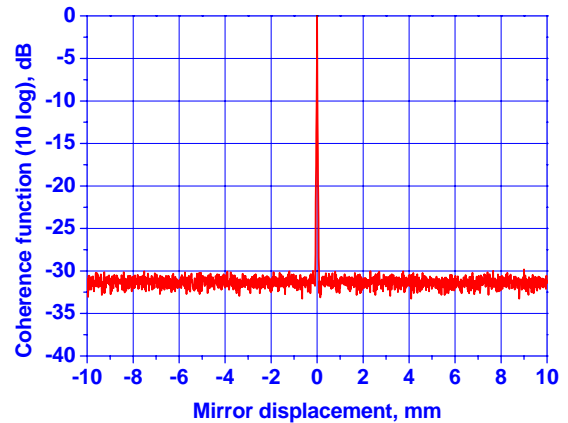
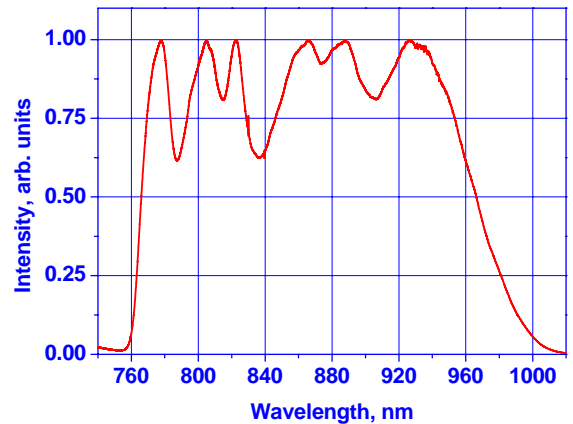
**Optical output:** FC/APC

**Fiber:** Corning HI 780

A maximum feedback of -25 dB is allowed to run Broadlighter Q-870-HP safely at full power.

All specifications are subject to change without notice.

**PERFORMANCE EXAMPLES**



Mirror displacement = Optical path difference / 2.  
Spatial resolution of measurements is 0.5 μm.