

Applications:

- Optical coherence tomography
- Optical metrology
- Optical measurements

Features:

- Extremely wide optical spectrum covering NIR range: 780 – 1080 nm
- Coherence length* of less than 1.5 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	3.0	4.0	-
Mean wavelength, nm	-	940	-
Bandwidth (FWHM), nm	275	300	-
Residual spectral modulation depth (0.05 nm resolution), %	-	2	5
Spectral flatness, %	-	-	50
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

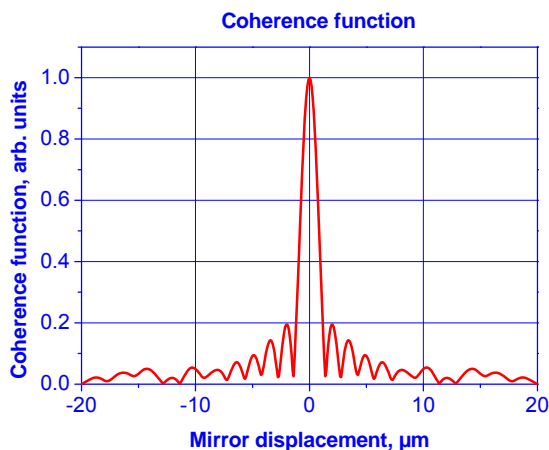
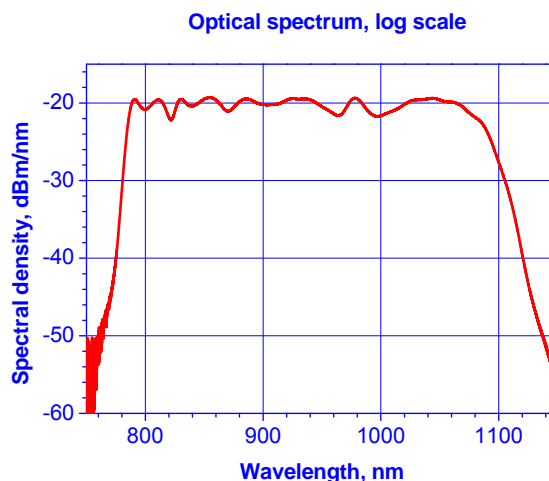
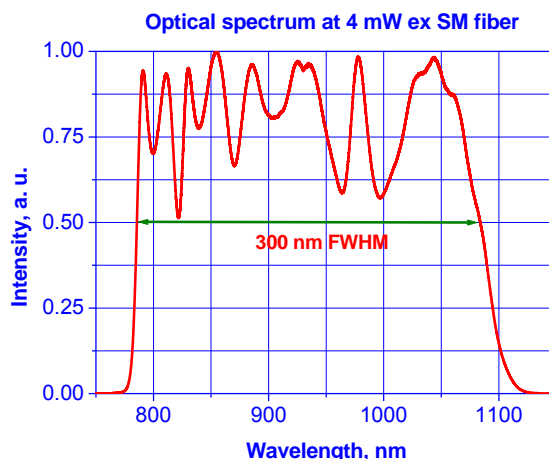
Operating temperature range: 0 °C to +40 °C

Optical output: FC/APC

Fiber: Corning HI 780

A maximum feedback of -25 dB is allowed to run Broadlighter Q-940-HP safely at full power.

PERFORMANCE EXAMPLES



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

All specifications are subject to change without notice.