

Applications:

- Optical coherence tomography
- Optical metrology
- Optical measurements

Features:

- Two models: optically isolated D-1300-HP-I, and D-1300-HP without optical isolator for applications with optical feedback of less than -30 dB
- 120-nm spectral width (FWHM)
- Coherence length* of around 8 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	P/N	Min	Typ	Max
SM-Fiber output power, mW	D-1300-HP	8	10	-
	D-1300-HP-I	7	9	-
Mean wavelength, nm	All	1270	1300	1330
Bandwidth (FWHM), nm	All	120	-	-
Residual spectral modulation depth (0.05 nm resolution), %	All	-	2.0	5.0
Spectral flatness, %	All	-	-	30
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 ± 0.5 °C.

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

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

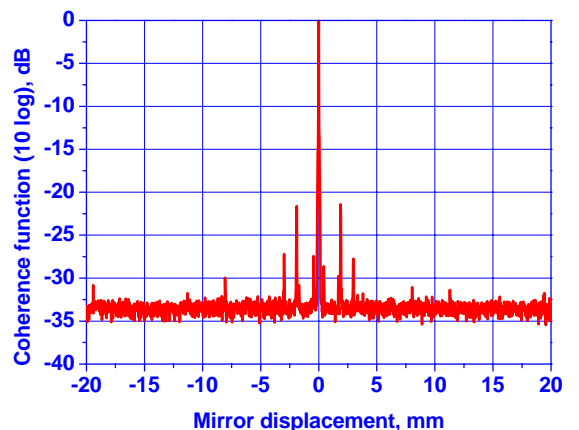
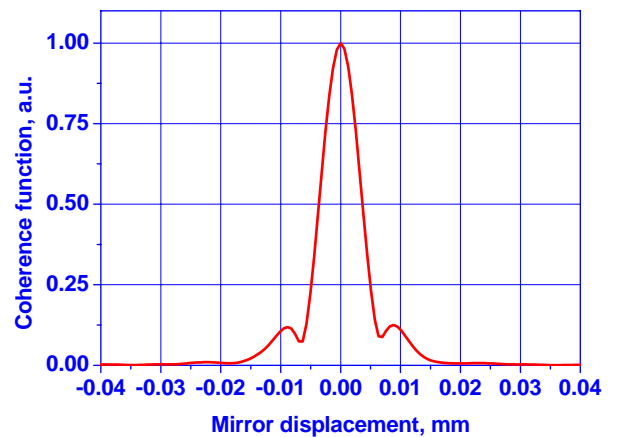
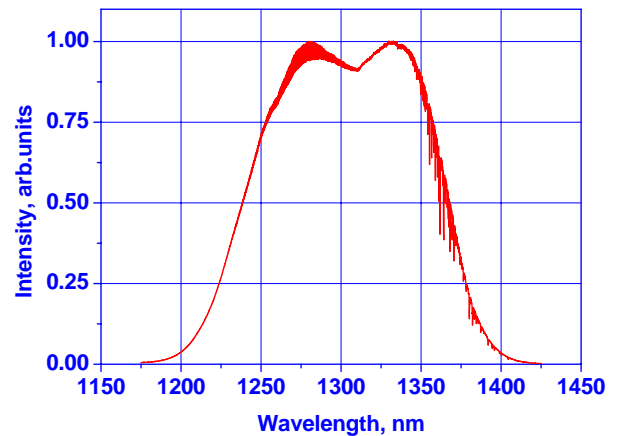
Optical output: FC/APC

Fiber: Corning SMF 28

A maximum feedback of -30 dB (10⁻³) is allowed to run Broadlighter D-1300-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.