

Applications:

- Optical coherence tomography
- Optical metrology
- Optical measurements

Features:

- Wide bell-shaped optical spectrum of up to 80 nm FWHM
- Coherence length* of less than 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:

D-860-G-HP-I – optically isolated model.

D-860-G-HP1, D-860-G-HP2 – models without optical isolator for applications with optical feedback of less than -30 dB.

Parameter	Model	Min	Typ	Max
SM-fiber output power, mW	D-860-G-HP1	5.0	7.0	-
	D-860-G-HP2	15.0	20.0	-
	D-860-G-HP-I	10	12	-
Mean wavelength, nm	All	850	860	870
3-dB (FWHM) spectrum width, nm	D-860-G-HP1	70	80	-
	D-860-G-HP2	60	70	-
	D-860-G-HP-I	60	70	-
Residual spectral modulation depth (0.05 nm resolution), %	All	-	2	5
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

Output: FC/APC

Fiber: Corning Pure Mode HI 780

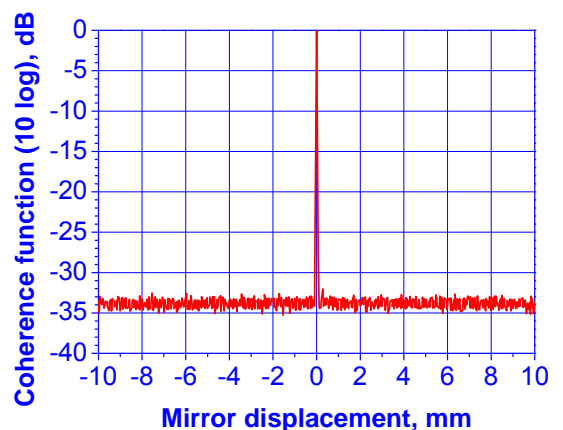
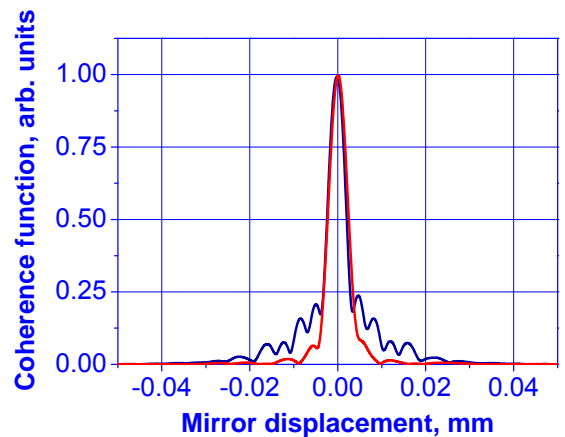
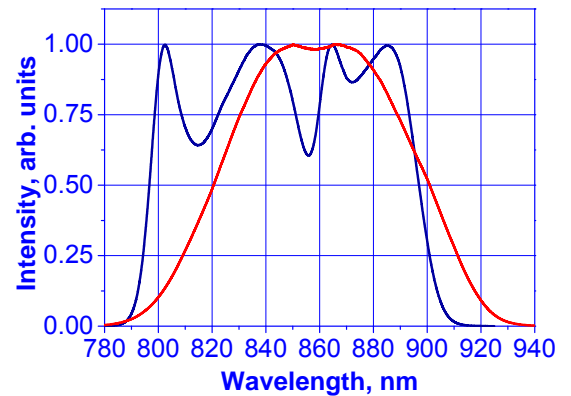
A maximum optical feedback of -30 dB (10^{-3}) is allowed to run the models without optical isolator (D-860-G-HP1 and D-860-G-HP2) safely at full power.

All specifications are subject to change without notice.

PERFORMANCE EXAMPLES

Red line – D-860-G-HP1

Dark blue line – D-840-HP (for comparison)



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