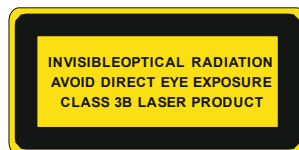




## TRCL840.40-10 – high-power ring-cavity tunable laser source

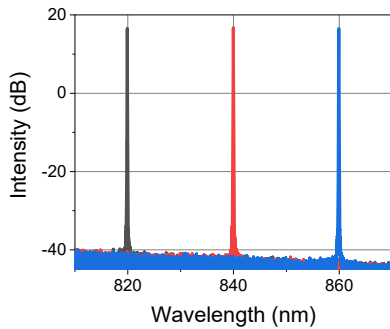
### Specifications

Parameter	Value or description
Central wavelength	840 nm
Wavelength tuning range	40 nm (820 nm to 860 nm)
Minimum tuning range	5 nm
Output optical power (ex-fiber)	10 mW
Linewidth (FWHM)	0.05 nm
Wavelength setting resolution	0.01 nm
Sweep speed range	1 – 10000 nm/s
Output PER	≥ 15 dB
Power change over the tuning range	±10%
Peak-to-ASE Excess, any wavelength within the tuning range	> 60 dB
Signal-to-ASE ratio (integral), any wavelength within the tuning range	> 99:1
Fiber type	PANDA PM 850
Working fiber axis	Slow axis, aligned to the connector key
Optical output	Through FC/APC matting sleeve
Operating voltage/current	+12 VDC/1.5 A
Computer communication port	USB
Sweep synch signal	TTL-compatible pulses
Operating modes	1) Static (no sweep) 2) Continuous sweep 3) External triggering 4) Single sweep
Operating temperature range	+15 °C to +35 °C
Outline dimensions (W×H×D)	110 mm × 75 mm × 230 mm
Weight	2.5 kg

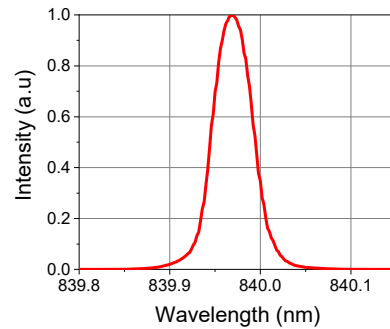


# Spectral characteristics and sweep mode examples

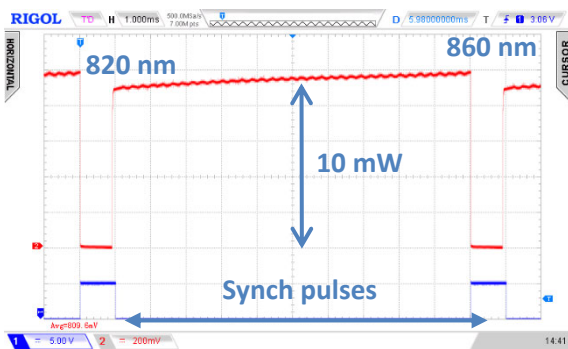
**Spectral tunability**



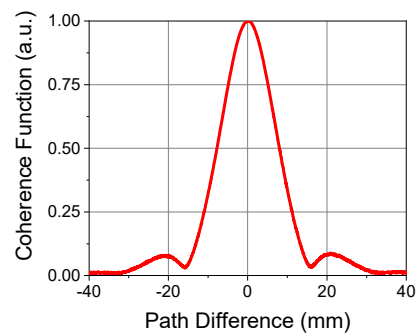
**Spectral linewidth**



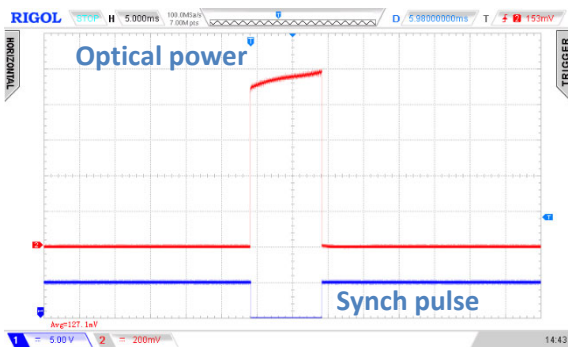
**Continuous sweep mode**



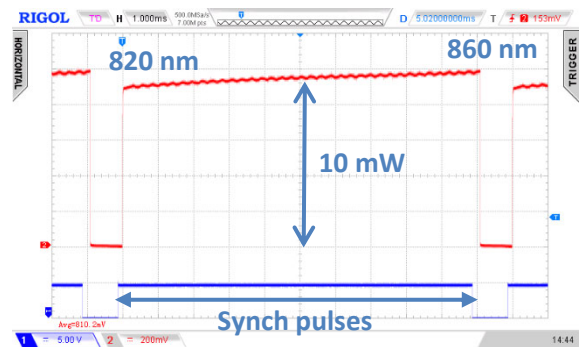
**Typical coherence function**



**Single sweep mode**



**External triggering mode**



**Long-term stability under room conditions**  
( $P_{LASER}$  is kept constant at 10mW,  $I_{LASER}$  is adjustable)

