

SuperTune QCL™

Mid infrared wide spectrum tunable laser

Supertune QCL™ is a wide spectrum continuous tunable laser customized by noble laser for infrared spectrum and infrared optical instrument applications. Ultra high stability optomechanical design, combined with unique 3-12μm wide spectrum coverage and wide spectrum tuning capability make it the most cost-effective semiconductor infrared tunable light source in the market. The center wavelength of the series is customized at 4-5μm band, the average power of up to 20mW can be obtained.

Supertune QCL™ has a built-in wavelength monitoring module, and uses a high-performance motor to achieve fine wavelength adjustment, which can be used independently without relying on an infrared spectrometer. The laser can be used in infrared material characterization, spectroscopy and nonlinear optics. The operating wavelength is 4-5μm for customized requirements outside the M-band, please consult the nuopal laser technology team: support@npilasers.com.

Applications :

- Infrared spectroscopy
- Device testing and measurement
- Gas molecular detection
- Infrared light scientific instrument
- Infrared excitation light source

Main Specification

Laser Parameters

Operating Wavelength	4-5 μm (3-12 μm customizable)	Tuning range	>200 nm@4.55 μm
Output bandwidth	<0.1 nm	Beam quality	M ² < 1.5
Average power	>1 mW	Output mode:	Free space output

Electrical, Environmental and Mechanical Parameters

Supply Voltage	100-240 VAC	Weight	17 Kg
Operational Temperature Range	15-35 °C	Dimensions	436×260×146 mm
Operational Humidity Range	20~80 %	Cooling	Air cooling

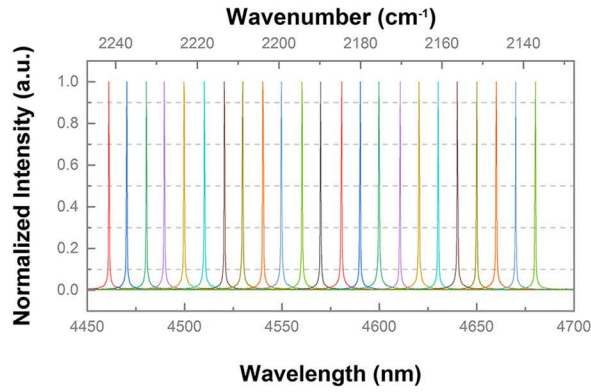


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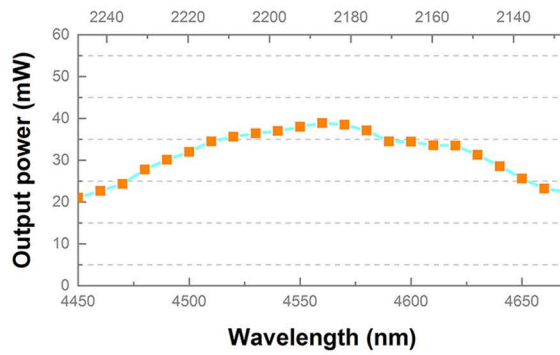
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Test Data

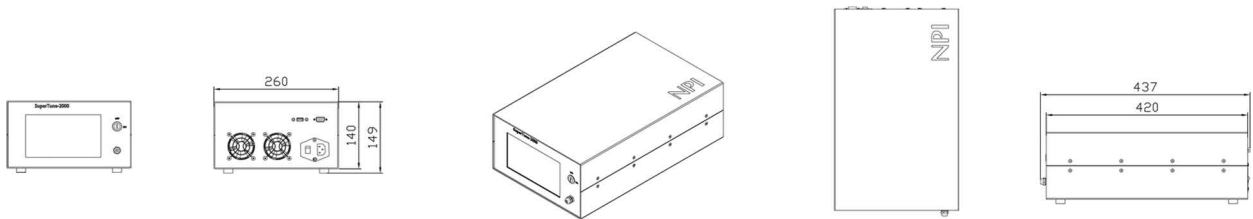
Output spectrum



Output power



Machine Drawing



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