

**NEW**

# VCSEL Swept Source HSL-1

The HSL-1 is based on advanced electrically pumped VCSEL (Vertical Cavity Surface Emitting Laser) technology. An attractive laser for SS-OCT applications the HSL-1 takes advantage of a number of features intrinsic to VCSELs to deliver best-in-class performance, including long coherence length, variable scan speed and low signal noise. The HSL-1 has been designed with system integration in mind; a compact, efficient package the laser is also robust, reliable and suitable for mass production.



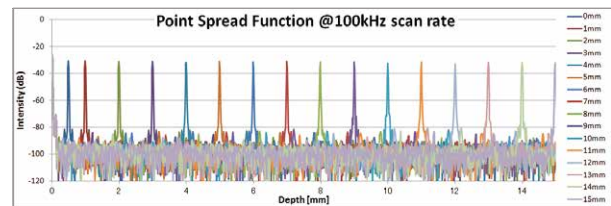
## Features

- ▶ 1060nm Wavelength Range
- ▶ Single Mode Lasing: Ultra Long Coherence Length
- ▶ Flexible Scanning Rate, Tuning Range, and Direction
- ▶ Coherence Revival and Mode Competition Noise Free
- ▶ Compact and Designed for Reliability
- ▶ Integrated k-Trigger

## Applications

- ▶ Swept Source OCT (SS-OCT)
- ▶ Spectroscopy
- ▶ Interferometry
- ▶ Optical Sensing
- ▶ FMCW LiDAR

## Measurement Data



## Performance

	Specification	Notes
Center Wavelength	1060±15 nm	
Scan Rate : Scan Range	10 kHz : 40 nm	
	50 kHz : 70 nm	
	100 kHz : 70 nm	
	200 kHz : 70 nm	
	400 kHz : 70 nm	Bi-directional scan * Preliminary
Coherence Length	≥ 100 m	Single Mode Lasing
Output Power (Average)	≥ 15 mW	

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