

**NEW**

# VCSEL Swept Source HSL-1

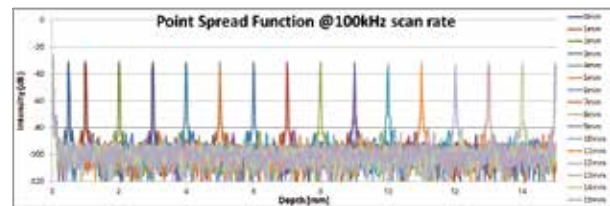
The HSL-1 is based on advanced electrically pumped VCSEL (Vertical Cavity Surface Emitting Laser) technology. An attractive laser for SS-OCT applications the HSL-1 takes advantage of a number of features intrinsic to VCSELs to deliver best-in-class performance, including long coherence length, variable 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

## Measurement Data



## Applications

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

## 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 (Peak)	≥40 mW	

[www.santec.com](http://www.santec.com)

2021 © SANTEC CORPORATION Santec reserves the right to make changes in equipment design, components or specifications without notice.



**SANTEC CORPORATION**  
5823 Ohkusa-Nenjozaka, Komaki, Aichi 485-0802, Japan Tel: +81-568-79-3536 Fax: +81-568-79-1718

**SANTEC USA CORPORATION**  
433 Hackensack Ave., Hackensack, NJ 07601 USA Toll Free: +1-800-726-8321 (santec-1) Tel: +1-201-488-5505 Fax: +1-201-488-7702

**SANTEC EUROPE LIMITED**  
Grand Union Studios, 332 Ladbroke Grove, London W10 5AD Tel. +44-20-3176-1550

**SANTEC (SHANGHAI) Co., Ltd**  
21F Room H, Hua Du Bldg., No.838 Zhangyang Road, Pudong, Shanghai 200122 China Tel: +86-21-58361261, +86-21-58361262 Fax: +86-21-58361263