NEW

MEMS based High-speed/Wide range Swept Source
HSL-mini

Santec introduces new MEMS based high speed swept source. New source realizes 50kHz fastest scan while maintaining wide scan rage of over 160nm. This feature provides advantage in ultra high-speed imaging or motion-sensitive applications, i.e. ophthalmology, endoscope applications. MEMS scanner based system boasts industrial-class high reliability. Santec also supports the integration of HSL into customer's system providing lots of options as well as OCT system software.

Features

- 50kHz scan rate
- 160nm wide scan range 6μm axial resolution (theoretical)
- High S/N : RIN<120dB
- LabVIEW software is available as an option (please ask)
- k-clock available

Applications

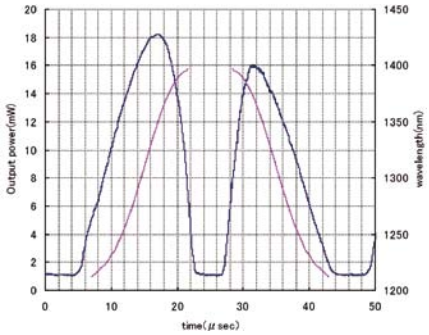
- Ophthalmology OCT
- Endoscopic OCT
  (ex. Cardiovascular, Gastrointestinal applications)

Specification

Parameter	Specification	Notes
Center wavelength	1290-1340nm	
Scan range	≧160nm	
Scan rate	50kHz	
Coherence length	≧6mm	
Output power	≧15mW	At peak
RIN	≦-120dB/Hz	Over 10 to 100MHz
Size (Width x Depth x Height)	144x193x75mm	

* Please note, these specifications are subject to change due to on-going engineering developments.

Transient Characteristics



Transient Characteristics

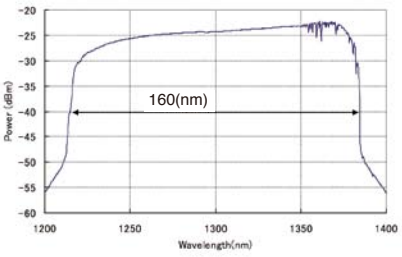
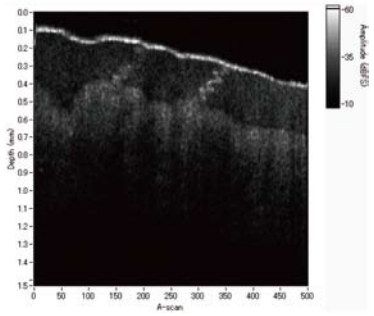


Image examples



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