

200kHz Swept Light Source

200kHz Swept Light Source for OCT Imaging

Mechanical - free , full electric controlled swept light source is now available !!

Highlights

High-speed:

200kHz A-line repetition rate

Voltage-controlled sweeping formats:

k-linear scan available

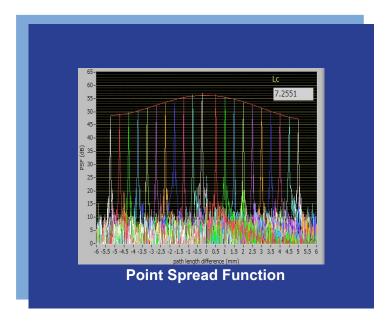
Coherence length :

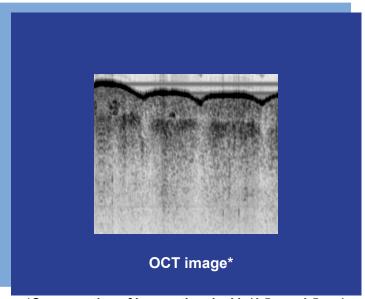
> 7mm at 200kHz Scan

All solid state :

no moving parts







*Cross section of human thumb skin(1.5mm×1.5mm)

Swept light source is based on the results of NTT Photonics Laboratories

NTT Advanced Technology Corporation

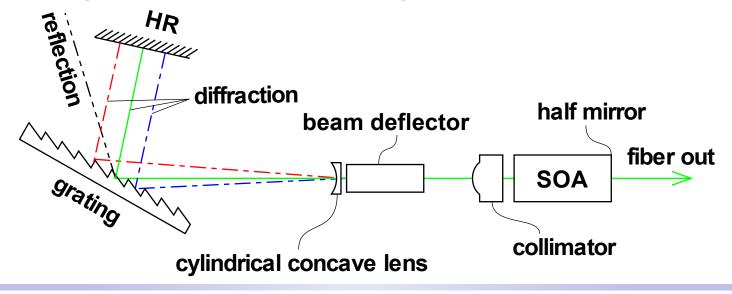
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Specifications

Parameter	min.	max.	units
Center wavelength	1310	1330	nm
Wavelength span	100		nm
Average output (main)	17		mW
Average output (monitor)	0.17		mW
Coherence length*1	> 7		mm
Sweep trigger level	TTL		
Laser drive	Sine or Sawtooth*2		
Duty of sawtooth scan	50	70	%
Line voltage*3	100	240	V
Mechanical dimensions	250×300×150 (excluding protrusions)		mm
Interface to PC	USB-B		
Output connector (main/monitor)	FC / APC		
Sweep trigger connector	BNC		
Interference signal connector	BNC		
Control program	LabVIEW runtime		
Operating system	Windows7 32bit		
Operating temperature	10 ∼ 30°C , no condensation		

^{*1} Defined as the FWHM of the interference signal as the function of path difference.

■ Configuration of KTN based swept light source



Features and specification are subject to change for improvement without notice. For more information, please visit http://www.ntt-at.com/

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^{*2} Two driving mode is selected via the control software.

^{*3} The power supply to the swept light source box is 48V DC. The AC/DC converter is placed out of the box.