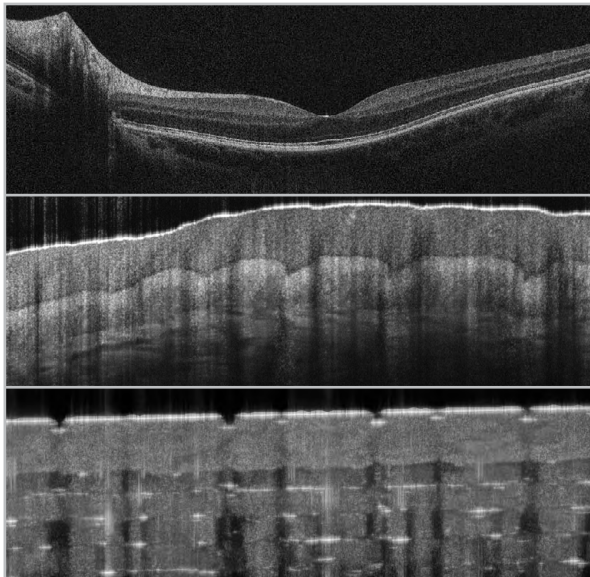




Cobra-S 800 OCT Spectrometer Series

Take your hi-res imaging to ultra high speed



High-res, high speed scanning with the Cobra-S enables widefield imaging of tissues and materials samples without averaging. (Retinal image courtesy of James Fujimoto, MIT)

MAXIMIZE SPEED

Industry-leading line scan rate: up to 250 kHz

Low crosstalk camera & diffraction-limited optics deliver exceptional roll-off: < 6 dB at 2.5 mm

Proprietary VPH gratings; highly efficient optical design with superior SNR & subpixel resolution

USB 3.0 interface option for 20-130 kHz models allows easy, cost effective system integration

Image up to 12 mm deep with our exclusive long-range imaging model

OEM ready: robust, compact & athermal

The Cobra-S 800 spectrometer makes spectral domain OCT faster and easier than ever before.

We've taken our compact, robust Cobra spectrometer to the next level with an even better design, camera, and new USB 3.0 interface. Free yourself from the cost and limitations of a Camera-Link card and get significantly higher speed & better roll-off than any other SD-OCT spectrometer on the market. Experience the performance and stability enabling the next generation of high-speed commercial OCT systems. From bloodflow dynamics and vibrometry to imaging of dermal vasculature and choroidal structures, the premium Cobra-S 800 delivers the speed, clarity, and depth you need.

OPHTHALMOLOGY | MEDICAL IMAGING | RAPID INSPECTION

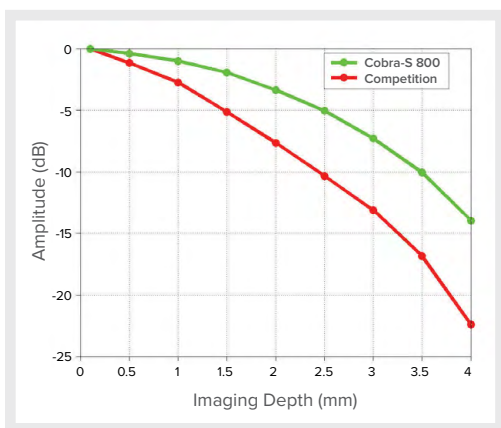
The fastest SD-OCT spectrometer just got easier to use.

Wasatch Photonics' Cobra-S OCT spectrometer pairs our industry-proven high throughput spectrometer design with athermal optomechanics and the fastest camera on the market. Try our new USB 3.0 interface and dedicated software libraries for high resolution, high-speed imaging from the convenience of a laptop!

Model number	Imaging Depth (in air)	Wavelength Range	Bandwidth	Spectral Resolution
CS800-841/28	12.9 mm	827-855 nm	28 nm	0.015 nm
CS800-840/40	9.0 mm	820-860 nm	40 nm	0.02 nm
CS800-930/60	7.4 mm	900-960 nm	60 nm	0.03 nm
CS800-840/60	6.0 mm	810-870 nm	60 nm	0.03 nm
CS800-840/80	4.5 mm	800-880 nm	80 nm	0.04 nm
CS800-840/120	3.0 mm	780-900 nm	120 nm	0.06 nm
CS800-850/140	2.6 mm	780-920 nm	140 nm	0.07 nm
CS800-840/180	2.0 mm	750-930 nm	180 nm	0.09 nm
CS800-700/160	1.6 mm	620-780 nm	160 nm	0.08 nm
CS800-780/200	1.6 mm	680-880 nm	200 nm	0.10 nm
CS800-800/300	1.1 mm	650-950 nm	300 nm	0.15 nm

INCREASING AXIAL RESOLUTION ▼

Electronics	
Max Line Rate	20 kHz, 80 kHz, 130 kHz, or 250 kHz
Pixels	2048
Interface	USB 3.0 (up to 130 kHz) or Camera Link (up to 250 kHz)



The Cobra-S 800 offers >40% better roll-off and greater camera sensitivity than most OCT spectrometers, enabling visualization of deep structures like vasculature in the dermis.

OEM CUSTOMIZATION

At Wasatch Photonics, we go beyond custom to create unique, bespoke spectrometers for our OEMs. We'll share our deep understanding of spectrometer and OCT system design, working with you as a collaborator to create products to differentiate you in your marketplace. From custom cameras, gratings, and athermal lens sets to drop-in replacements for legacy designs, we can develop a solution optimized for your imaging needs.

Contact us for greater clarity

