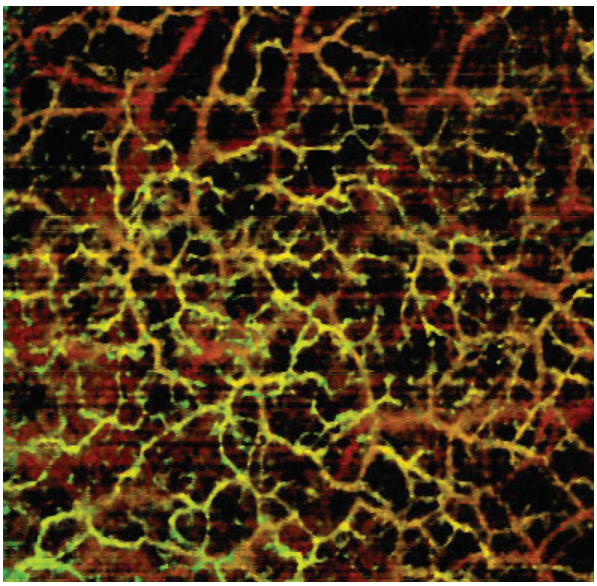
Wasatch Photonics

Cobra-S 800 OCT Spectrometer Series

Take your hi-res imaging to ultra high speed



OCT angiography scans captured with the Cobra-S 800 exhibit reduced motion artifacts due to the high speed of imaging, in addition to high resolution.

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 new long-range imaging model NEW
- 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.

ANGIOGRAPHY | VIBROMETRY
REAL-TIME 3D IMAGING

PHONE: +1 919-544-7785 | EMAIL: info@wasatchphotonics.com
wasatchphotonics.com

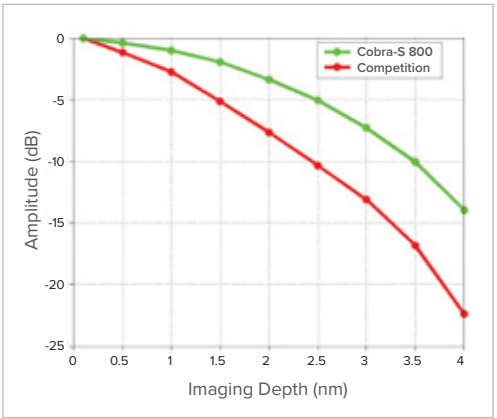
The fastest SD-OCT spectrometer just got easier to use.

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!

Specifications for our standard models can be found in the table below. Please contact us to discuss your custom OEM requirements. Note: Cobra-S 800 part numbers are of the format CS800-[CWL]/[BW]-[kHz]-[camera][pixels]-[interface], where the e2v OctoPlus camera is represented by "OC", 2K denotes 2048 pixels, and the interface is either camera link (up to 250 kHz, denoted by "-CL") or USB 3.0 (up to 130 kHz, denoted by "-U3").

	NEW CS800-827/28-xx-OC2K-yy	CS800-840/80-xx-OC2K-yy	CS800-840/114-xx-OC2K-yy	CS800-850/140-xx-OC2K-yy	CS800-840/180-xx-OC2K-yy	CS800-800/300-xx-OC2K-yy
Imaging Depth (in air)	12.0 mm	4.0 mm	3.1 mm	2.5 mm	2.0 mm	1.0 mm
Wavelength Range	827-855 nm	800-880 nm	783-897 nm	780-920 nm	750-930 nm	650-950 nm
Bandwidth	28 nm	80 nm	114 nm	140 nm	180 nm	300 nm
Spectral Resolution	0.015 nm	0.04 nm	0.06 nm	0.07 nm	0.09 nm	0.15 nm
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)					
Dimensions	26.9 x 13.9 x 8.7 cm	31 x 13.5 x 8 cm	9.5 x 19 x 6 cm			
Weight	5.5 kg	5.0 kg	1.4 kg			

INCREASING AXIAL RESOLUTION ▶



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

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PHONE: +1 919-544-7785 | EMAIL: info@wasatchphotonics.com wasatchphotonics.com