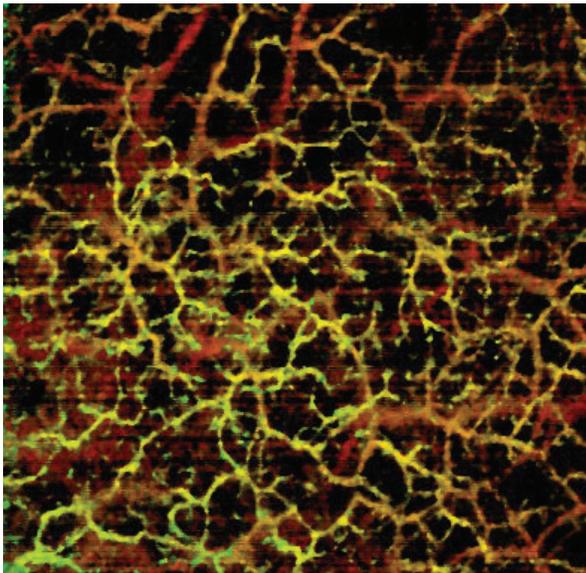




Cobra-S 800 OCT Spectrometer Series

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

Premier optical design with superior SNR & subpixel resolution for greater image clarity

Exceptional sensitivity roll-off:
<6 dB @ 2.5 mm imaging depth

Industry-leading 250 kHz line scan rate

Sensitive, low crosstalk camera and near diffraction-limited optics enhance roll-off

Proprietary VPH gratings for low polarization dependence & highest efficiency

OEM ready: robust, compact & athermal

The Cobra-S 800 ultra high speed spectrometer heralds a new era in spectral domain OCT.

We've taken our compact, robust Cobra spectrometer to the next level with a revolutionary new design and camera. With significantly higher speed and better roll-off than any other SD-OCT spectrometer on the market, the Cobra-S offers the performance and stability to enable the next generation of high-speed, cost-effective 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



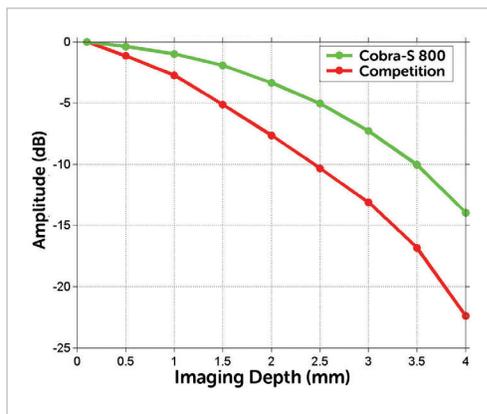
The best SD-OCT spectrometer just got an upgrade.

Wasatch Photonics' newest Cobra OCT spectrometer pairs our industry-proven high throughput spectrometer design with athermal optomechanics and the fastest camera on the market for extremely high resolution imaging at more than 2-3x the speed of conventional OCT spectrometers.

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], where the e2v OctoPlus camera is represented by "OC", and 2K denotes 2048 pixels.

	CS800-840/80-250-OC2K	CS800-840/114-250-OC2K	CS800-850/140-250-OC2K	CS800-840/180-250-OC2K	CS800-800/300-250-OC2K
Imaging Depth	4.0 mm	3.1 mm	2.5 mm	2.0 mm	1.0 mm
Wavelength Range	800-880 nm	783-897 nm	780-920 nm	750-930 nm	650-950 nm
Bandwidth	80 nm	114 nm	140 nm	180 nm	300 nm
Spectral Resolution	0.04 nm	0.06 nm	0.07 nm	0.09 nm	0.15 nm
Max Line Rate	250 kHz				
Pixels	2048				
Interface	Camera Link				
Dimensions	9.5 x 19 x 6 cm				
Weight	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

