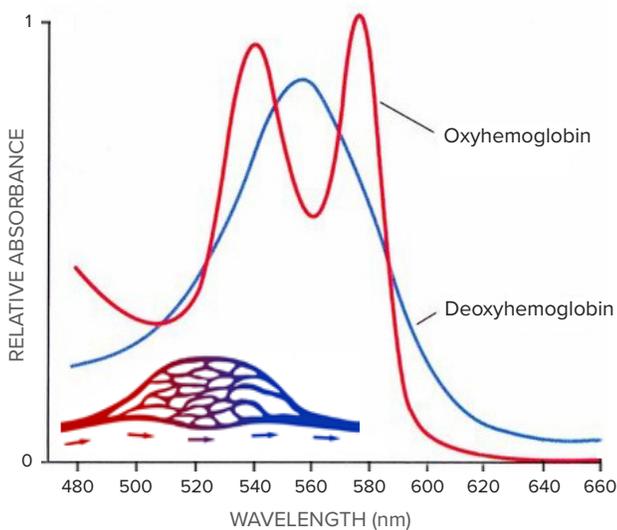




Cobra VIS OCT Spectrometer Series

Unveil a new dimension in 3D imaging



The differential in absorption at 550 nm between oxyhemoglobin and deoxyhemoglobin provides additional information about vascular perfusion.

MAXIMIZE INFORMATION

Collect blood perfusion data and ultra-high resolution OCT images simultaneously at 550 nm

Industry-leading line scan rate: up to 250 kHz

Low crosstalk camera & diffraction-limited optics for exceptional roll-off; as little as 6 dB at 1.2 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

OEM ready: robust, compact & athermal

Access all the benefits of vis-OCT with our newest addition to the Cobra spectrometer family.

The Cobra VIS has been designed with the same industry-leading performance as our flagship Cobra-S spectrometer for high resolution, high speed imaging at visible wavelengths. It gives you access to valuable oxygenation data while nearly doubling resolution as compared to 800 nm OCT imaging, empowering the structural and functional imaging of tissues. We conquer motion artifacts with 250 kHz imaging and offer convenience with a USB 3.0 interface. From 3D blood oxygenation mapping and microscopy to high resolution retinal imaging, the Cobra VIS gives you more information than SS-OCT ever could.

ANGIOGRAPHY | 3D MICROSCOPY
HIGH-RES RETINAL IMAGING



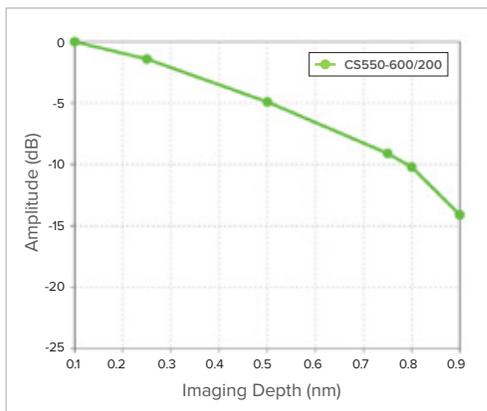
We put high resolution vis-OCT easily within reach.

Map perfusion and tissue oxygenation confidently by using the best possible optical design and camera on the market – diffraction limited and balanced for chromatic aberration. 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 VIS part numbers are of the format CS550-[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”).

| | CS550-555/80-xx-OC2K-yy | CS550-573/115-xx-OC2K-yy | CS550-600/200-xx-OC2K-yy | CS550-475/150-xx-OC2K-yy |
|----------------------------|--|--------------------------|--------------------------|--------------------------|
| Imaging Depth | 1.9 mm | 1.3 mm | 0.9 mm | 0.7 mm |
| Wavelength Range | 515-595 nm | 515-630 nm | 500-700 nm | 400-550 nm |
| Bandwidth | 80 nm | 115 nm | 200 nm | 150 nm |
| Spectral Resolution | 0.04 nm | 0.06 nm | 0.1 nm | 0.08 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 | 22 x 12 x 6.5 cm | | | |
| Weight | 1.3 kg | | | |

INCREASING AXIAL RESOLUTION ►



The Cobra VIS uses proprietary optics and a high sensitivity camera to deliver better roll-off than most OCT spectrometers, improving your resolution at increasing depths.

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

