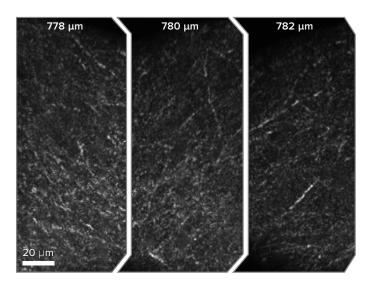


# Cobra 1600 OCT Spectrometer Series

## Superior depth & contrast for highly scattering samples



Optical coherence microscopy imaging of mouse brain in vivo. OCM en face images were taken at 3 successive depths, with imaging NA = 1. Courtesy of Steven Adie, Cornell University.

#### **MAXIMIZE DEPTH & CONTRAST**

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

Superior sensitivity roll-off for 1600 nm: <10 dB @ 3.0 mm imaging depth

25% greater depth penetration & better SNR for highly scattering samples than 1300 nm

Choice of scan rate, 76 & 147 kHz

Proprietary VPH gratings for low polarization dependence & highest efficiency

OEM ready: compact & robust

#### The Cobra 1600 offers superior depth & enhanced image contrast for highly scattering samples.

Visualization of deep-tissue structures can be limited in penetration depth and contrast, particularly for samples with high scattering power & low water content, such as lipid-rich tissue, dental structures, and even paints and rubber. As the first off-the-shelf 1600 nm OCT spectrometer, the Cobra 1600 gives you access to an optical window with enhanced depth penetration and high contrast with high axial resolution, compatible with readily available fiberoptic components. Our proprietary high throughput design offers the sensitivity & speed needed for 3D deep-tissue imaging to study hippocampal formation and characterize atherosclerotic plaques, or for non-destructive testing.

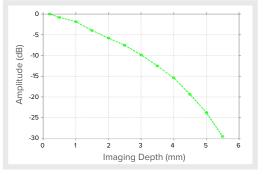
#### OPTICAL COHERENCE MICROSCOPY | INTRAVASCULAR OCT | NON-DESTRUCTIVE ANALYSIS



## An innovative wavelength for unusual samples.

Wasatch Photonics' low roll-off Cobra 1600 has the sensitivity you need to see deeper into scattering materials with high contrast, and the broad bandwidth to achieve detailed images. When 1300 nm OCT leaves you limited, 1600 nm may be the solution to take you deeper.

	C1600-1570/240-76-SG2K	C1600-1570/240-147-SG2K
Imaging Depth (in air)	5.1 mm	
Wavelength Range	1450 - 1690 nm	
Bandwidth	240 nm	
Spectral Resolution	0.12 nm	
Max Line Rate	76 kHz	147 kHz
Pixels	2048	
Interface	Camera Link	
Dimensions	9.5 x 19 x 6 cm	
Weight	1.4 kg	



The Cobra 1600 offers excellent roll-off due to our optimized design.

#### **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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