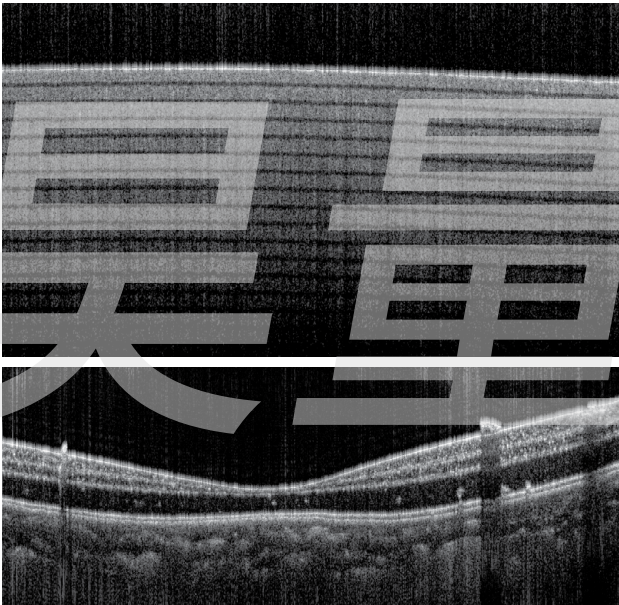




Cobra OEM OCT Spectrometer Series

Streamlined, robust design for OEM integration



The Cobra OEM is ideal for industrial inspection of layers, and for use in image-guided ophthalmic surgery systems.

MADE FOR SYSTEM INTEGRATORS

Compact, lightweight design: $< 700 \text{ cm}^3$, $< 1 \text{ kg}$

OEM-ready robust design - demonstrated thermal and mechanical stability

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

Low crosstalk camera & diffraction-limited optics for performance similar to our Cobra-S series

Industry-leading line scan rate: up to 250 kHz

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

Designed for volume manufacture

Harness the power of OCT imaging for your application with the production-ready Cobra OEM.

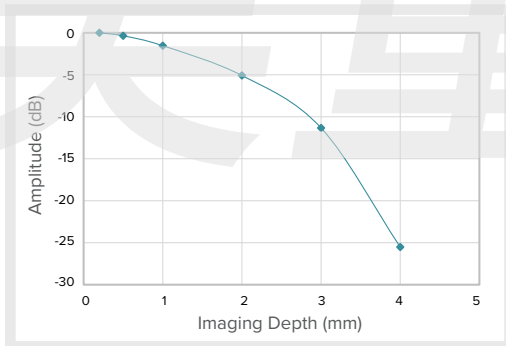
We've designed the Cobra OEM spectrometer to be our most compact, lightweight OCT spectrometer yet, optimized specifically for the needs of OEMs. This robust OCT spectrometer module delivers comparable performance to our signature Cobra-S OCT spectrometers, and is offered in multiple bandwidths centered at 840 nm for imaging depths up to 4 mm in air, matching available SLD sources for cost-effective OCT imaging in volume. Applications include industrial imaging for quality control and image-guided ophthalmic surgery, *Contact us to learn more.*

MATERIALS PROCESSING | INDUSTRIAL INSPECTION | OPHTHALMOLOGY & SURGERY

Accelerate your time to market

Wasatch Photonics' Cobra OEM OCT spectrometer modules simplify your system development and ensure clear, consistent, detailed images in volume. These compact, lightweight units have been designed for ease of integration and durability, and are supported by OCT-specific SDKs.

	CO800S-840/90	CO800S-840/120	CO800S-850/140	CO800S-840/180
Imaging Depth (in air)	4.0 mm	3.0 mm	2.6 mm	2.0 mm
Wavelength Range	795 - 885 nm	780 - 900 nm	780 - 920 nm	750 - 930 nm
Bandwidth	90 nm	120 nm	140 nm	180 nm
Spectral Resolution	0.05 nm	0.06 nm	0.07 nm	0.09 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	130 x 86 x 60 mm			
Weight	0.7 kg			



The Cobra OEM offers excellent roll-off due to our optimized design, as shown here for a 90 nm bandwidth design, CO800S-840/90.

OEM CUSTOMIZATION

At Wasatch Photonics, we go beyond custom to create spectrometers tailored to our OEM customers' needs. 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

WP-PS_Cobra-OEM_RevA

