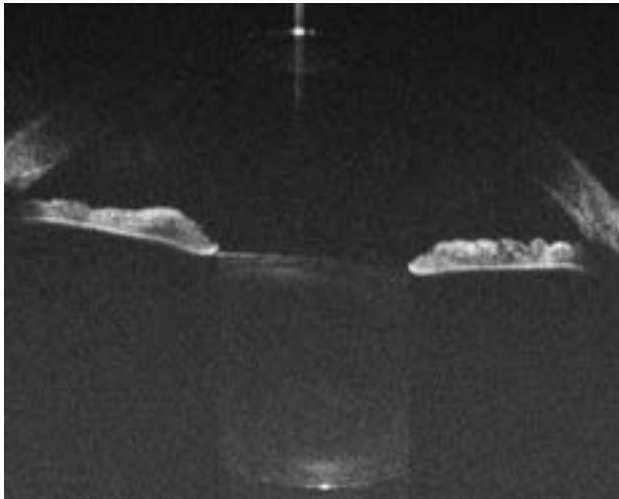




Cobra-D OCT Spectrometer Series

Deeper Imaging for Medical & Industrial Applications



The Cobra-D can image the full anterior chamber of the eye and lens (image taken with model CD800-841/28).

INNOVATIVE 800 NM IMAGING

Imaging depths up to 14 mm in air at 800 nm with exceptional roll-off performance

Greater detection sensitivity through the use of cost-effective CCD cameras vs InGaAs

Proprietary ultra-high resolution optical design backed by patent-protected VPH gratings

Industrial-grade mechanical & thermal stability; compact for integration into critical systems

Scan rate up to 250 kHz, USB 3.0 interface for 20-130 kHz models for easy system integration

End the cost vs depth compromise with our proprietary ultra-high resolution design

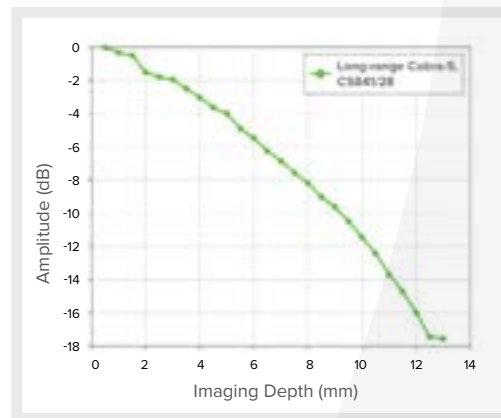
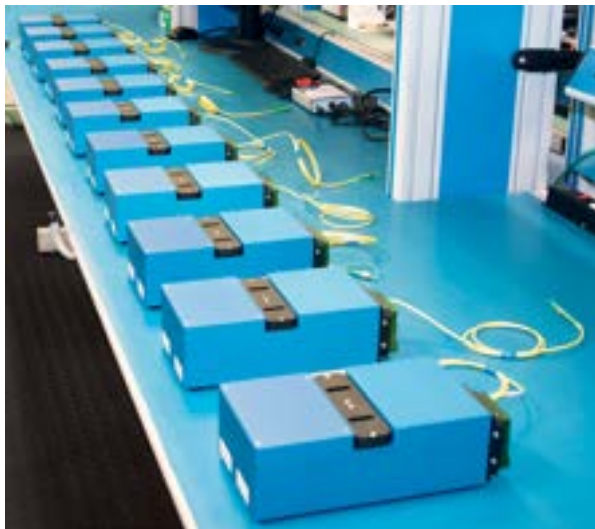
Traditional OCT imaging uses costly InGaAs detectors to achieve deeper scans. Our innovative optical spectrometer allows you to achieve imaging depths of up to 14 mm using 800 nm OCT, creating a cost-effective alternative with stronger signal. Designed with industrial-grade mechanical and thermal stability, these units are manufactured in volume – perfect for nondestructive process monitoring such as additive printing & laser machining, as well as for ophthalmology and medicine.

INDUSTRIAL 3D IMAGING | QUALITY CONTROL | IMAGE-GUIDED SURGERY

Accelerate your time to market

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

	CD800-840/21	CD800-841/28	CD800-840/40	CD800-840/60	CD800-840/80
Imaging Depth (in air)	14.0 mm	12.9 mm	9.0 mm	6.0 mm	4.5 mm
Wavelength Range	830-851 nm	827-855 nm	820-860 nm	810-870 nm	800-880 nm
Bandwidth	21 nm	28 nm	40 nm	60 nm	80 nm
Spectral Resolution	0.01 nm	0.015 nm	0.02 nm	0.03 nm	0.04 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	27.8 x 13.4 x 7.9 mm				
Weight	5.5 kg				



Roll-off at 10 mm imaging depth is <12 dB for our CD800-841/28 OCT spectrometer, due to our proprietary, optimized design.

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, collaborating with you to create products that excel in your market. From custom cameras and grating designs to drop-in replacements for legacy designs, we can develop a solution optimized for your imaging needs and scale it quickly to volume in our ISO 9001:2015 certified facilities.

Contact us for greater clarity

WP-PS_Cobra-D_RevA

