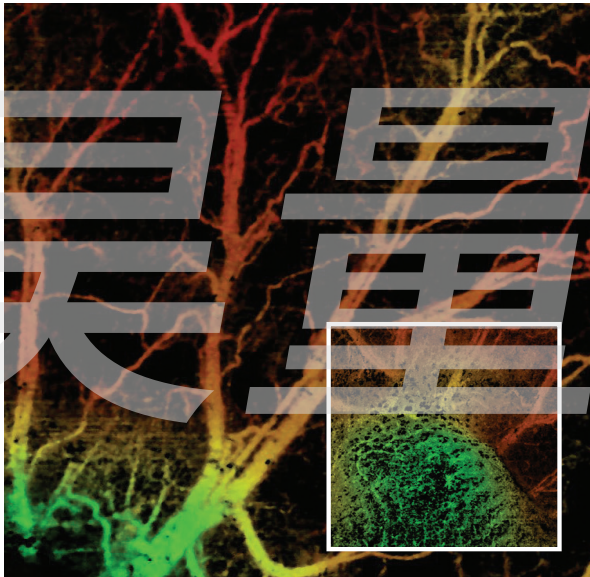


Cobra 1300 OCT Spectrometer Series

Uncover new depths with greater clarity



OCT angiography is a powerful technique for assessing tumor margins, as shown in comparing a healthy mouse ear to one in which a tumor has been implanted (inset).

MAXIMIZE IMAGING DEPTH

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

10 unique models for the exact range, resolution, speed & depth you need

Near diffraction-limited optics minimize roll-off

Proprietary VPH gratings for low polarization dependence & highest efficiency

Ability to collect large angle scatters and depths of view up to 11.5 mm

OEM ready: robust, compact & athermal

The Cobra 1300 provides exquisite detail at depths where other SD-OCT spectrometers struggle.

Our industry leading Cobra spectrometer reduces the tradeoff between imaging depth and clarity using a proprietary high throughput design, thus maximizing the quality of data from features at greater depths and larger scattering angles. The deep tissue penetration achieved is optimal for fundamental research, pharmaceutical testing, and treatment and diagnosis in ophthalmology, dermatology, and angiography, as well as for intravascular imaging.

DERMATOLOGY | ANTERIOR SEGMENT IMAGING | SUB-SURFACE MATERIAL INSPECTION

Go you deeper than you thought possible.

Wasatch Photonics' high throughput design extends depth of view further at 1300 nm by providing high sensitivity and excellent SNR for scattered light from deep tissues. This translates into superior clarity at greater imaging depths for applications like anterior segment imaging.

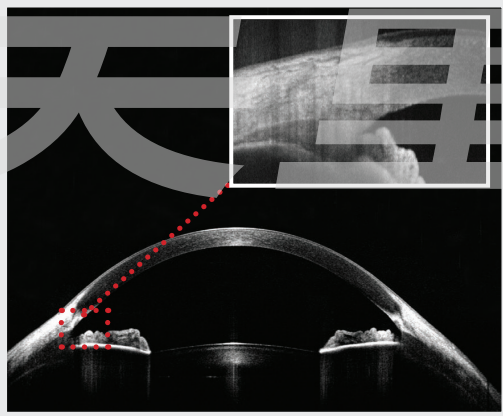
WAVELENGTH RANGE	BANDWIDTH	CAMERA OPTIONS	
		76 kHz	147 kHz
		2048 px	
1262-1335 nm	73 nm	11.5 mm*	11.5 mm*
1235-1385 nm	150 nm	5.8 mm*	5.8 mm*
1175-1420 nm	245 nm	3.5 mm*	3.5 mm*
1100-1500 nm	400 nm	2.0 mm*	2.0 mm*
950-1450 nm	500 nm	1.4 mm*	1.4 mm*
CAMERA		Sensors Unlimited GL2048 (SG)	

INCREASING AXIAL RESOLUTION

*Note: Imaging depth in air

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.



Hard-to-image structures like the ciliary muscle in the scleral region can easily be seen with the Cobra 1300, facilitating studies of its structure, function, and treatments for presbyopia.

Contact us for greater clarity

WP-PS_Cobra-1300_10Sep18

