



CIRRUS™ HD-OCT 5000 and 500

Technical Specifications



CIRRUS™ HD-OCT Technical Specifications

OCT Imaging	Model 5000	Model 500
Methodology	Spectral domain OCT	Spectral domain OCT
Optical source	Superluminescent diode (SLD), 840 nm	Superluminescent diode (SLD), 840 nm
Scan speed	27,000 - 68,000 A-scans per second ¹	27,000 - 68,000 A-scans per second ¹
A-scan depth	2.0 mm (in tissue), 1024 points	2.0 mm (in tissue), 1024 points
Axial resolution	5 µm (in tissue)	5 µm (in tissue)
Transverse resolution	15 µm (in tissue)	15 µm (in tissue)
Fundus Imaging	Model 5000	Model 500
Methodology	Line scanning ophthalmoscope (LSO)	Live OCT Fundus™
Live fundus image	During alignment and during OCT scan	During alignment
Optical source	Superluminescent diode (SLD), 750 nm	Superluminescent diode (SLD), 840 nm
Field of view	36 degrees W x 30 degrees H	36 degrees W x 22 degrees H
Frame rate	> 20 Hz	> 1.7 Hz
Transverse resolution	25 µm (in tissue)	45 µm (in tissue)
Iris Imaging	Model 5000	Model 500
Methodology	CCD camera	CCD camera
Resolution	1280 x 1024	1280 x 1024
Live iris image	During alignment	During alignment
Electrical and Physical	Model 5000	Model 500
Weight	80 lbs (36 kg)	76 lbs (34 kg)
Dimensions of instrument	26L x 18W x 21H (in) 65L x 46W x 53H (cm)	26L x 18W x 21H (in) 65L x 46W x 53H (cm)
Dimensions of table	39L x 22W (in) 99L x 56W (cm)	39L x 22W (in) 99L x 56W (cm)
Fixation	Internal, external	Internal, external
Internal fixation focus adjustment	-20D to +20D (diopters)	-20D to +20D (diopters)
Electrical rating (115V)	Single Phase, 100–120V~ systems: 50/60Hz, 5A	Single Phase, 100–120V~ systems: 50/60Hz, 5A
Electrical rating (230V)	Single Phase, 220–240V~ systems: 50/60Hz, 2.5A	Single Phase, 220–240V~ systems: 50/60Hz, 2.5A
Internal Computer	Model 5000	Model 500
Operating system/processor	Windows® 7, 4 th generation i7 Intel® processor	Windows® 7, 4 th generation i7 Intel® processor
Memory	16 GB	16 GB
Hard drive/internal storage	≥ 2 T > 200,000 scans	≥ 2 T > 200,000 scans
Display	Integrated 19" color flat panel display	Integrated 19" color flat panel display
USB ports	6 ports	6 ports

Technical specifications subject to change.

¹. All existing scan patterns in version 6.5 software run at 27,000 A-scans per second.
The fundus image acquired with the Model 500 will be captured at 68,000 A-scans per second.

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