

# HOCT-1 (OCT) HOCT-1F (OCT + Fundus) Optical Coherence Tomography



## Specification

### OCT

Resolution(in tissue)	Z:6um, XY:20um
A scan rate	68kHz
Scan range	[Fundus] X:3-12mm, Y:3-9mm, Z: 2.1mm [Cornea] X,Y:3-6mm
3-D Acquisition Time	1.1s (Fastest mode, A512 x B96)
Min. pupil diameter	ø 2.5mm
Light source	SLD 840nm
Optical power at cornea	< 750uW
Scan Pattern	Macular Line, Macular Cross, Macular Radial, Macular 3D, Disc Circle, Disc Radial, Disc 3D

### FUNDUS

Camera	Color, Resolution 12MP
FOV	45°
Min.pupil diameter	Normal:Ø4mm Small pupil:Ø3.3mm
Flash	LED
Resolution	(on fundus) Center : 60 lines/mm or more Middle (r/2) : 40 lines/mm or more Middle (r) : 25 lines/mm or more
Dioptric compensation	Full range: -33 to +35D / -13 to +13D with no compensation lens -33 to -12D with minus compensation lens +9 to +35D with plus compensation lens

### COMMON

Working distance	33 mm
LCD Size	12.1", Resolution 1280x800
Fundus surface imaging	NIR/phase fundus, FOV : 40° x 30°
Internal Fixation lamp	LED
Horizontal movement	70mm (back and forth) / 100mm (left and right)
Vertical movement	30 mm
Chinrest movement	60mm, motorized
Auto alignment	X,Y for positioning, Z for working distance
Auto focusing	Diopter Adjustment for focusing
Network	DICOM file support
Progression analysis	O
Normative database	will be constructed after a release
Built in computer	O
Power supply	AC 100 to 240V $\hat{A}\pm 10\%$
Power supply	330(W)x542(D)x521(H) mm / 30kg
Optional accessories	Anterior segment adapter, external fixation lamp, PC viewer
PC Viewer(optional)	Web-Based, Multi users can be accessible
Anterior segment module (optional) Scan patterns	Anterior Line, Anterior Radial, Anterior 3D
Anterior segment module (optional) Software Analysis	Corneal Layers, Thickness map, Thickness & Angle