







The imaging microscope for the living retina



The rtx1 is the world's first imaging microscope for the living retina. Its unprecedented image resolution enables tracking diseases at the cellular and micro-vascular levels. The rtx1 provides crisp and clear images of previously invisible retinal microstructures including cone photoreceptors, thin borders of atrophic lesions, lamina cribrosa pores, micro-hemorrhages, micro-aneurisms and arteriolar walls. For further detail visit www.imagine-eyes.com



¹ CE marked ARTG and Shonin approved. Not cleared by the FDA.



Specifications

Imaging	
Imaging type	En face reflectance imaging
Illumination type	Flashed non-coherent near-infrared illumination
Detection type	Low-noise CCD camera
Camera pixel pitch on the fundus	1.6 μm ²
Optical resolving power on the fundus	250 line pairs per millimeter (Ippmm) ^{2, 3}
Imaging field of view	4° x 4° ²
Image file format	PNG (Portable Network Graphic), DICOM
System	
Range of focus adjustment for compensation of patient's refractive error	-15 to +15 D
Pupil diameter range	4 to 10 mm
Working distance	50 mm
Focusing range (retinal equivalent)	800 µm ²
Internal fixation target type	Miniature OLED display
Internal fixation target gaze angle (max)	H ±10° / V ±8°
Internal fixation target range of focus	-12D to +6D
External fixation target type	LED attached to chinrest
Adaptive optics control	Fully automated, highly-resistant to blinking



2 Some specifications are dependent on ocular biometry, pupil diameter, optical defects, ocular media transparency as well as other factors. 3.

System can image line pairs of 2 µm in line width.

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