Canon
SEE IMPOSSIBLE

Xephilio OCT-A1

## OPTICAL COHERENCE TOMOGRAPHY SYSTEM

Shown with optional External Fixation Light, sold separately.

OUTSTANDING IMAGING WITH AUTOMATED OPERATION

Thanks to Canon's optical expertise, the Xephilio OCT-A1 Optical Coherence Tomography device, together with the required RX Capture software, computer, and LCD monitor (collectively, the "Xephilio OCT-A1 System"), offers superb image quality. With an Axial digital resolution of 1.6 µm and a high scanning speed of 70,000 A-scans per second, the System enables excellent differentiation of structures and individual layers of the retina and can help with patient comfort.
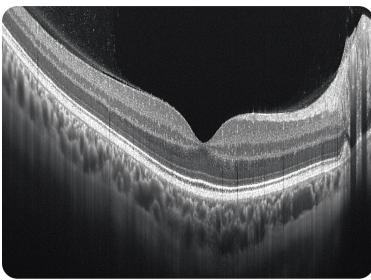
HIGH-DEFINITION IMAGING

The Xephilio OCT-A1 System, which offers 1.6 µm Axial digital resolution in combination with the ability to average multiple scans, can help provide excellent image quality with detailed resolution.
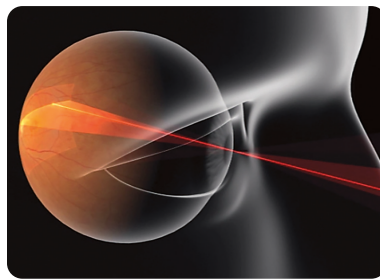
ACCURATE SCANNING, OUTSTANDING EASE OF USE

The System's integrated Scanning Laser Ophthalmoscope (SLO) contributes significantly to scan quality and ease of use. By providing real-time retinal tracking, it makes monitoring of the examination easy.

FAST AND PRECISE FOLLOW-UP

The SLO also assists with follow-up examinations by automatically adjusting to the same scan position as used in the previous exam. To ease comparison, the software automatically selects identical scan parameters.
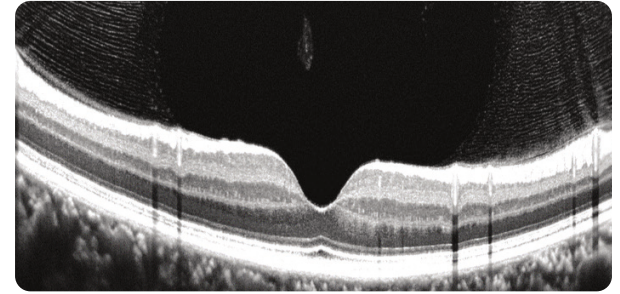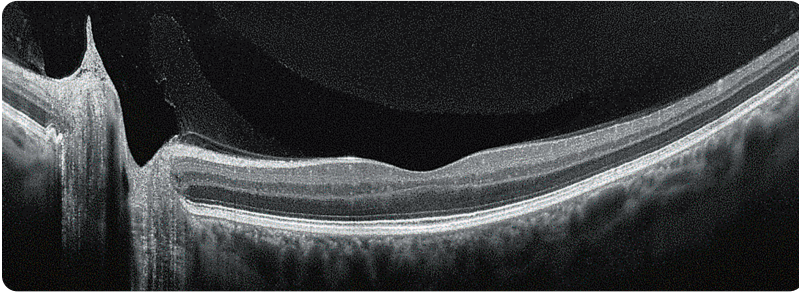
High-Resolution Tomography

1.6 µm Axial Digital Resolution

70,000 A-scans per Second

HIGH DEFINITION, ENHANCED DEPTH, WIDE FIELD OF VIEW

With the Xephilio OCT-A1 System, you can average up to 50 cross scans* to achieve an image resolution that allows impressive detail of both the layer and the vitreous pleated structures. For optimal imaging, the System offers special scan modes for vitreous and choroid imaging in addition to a wide scan width of up to 13 mm.

RELIABLE 10-LAYER RECOGNITION

The Xephilio OCT-A1 System can automatically detect and distinguish 10 layers of the retina—including Bruch's membrane (BM)—thanks to its excellent image quality and resolution.

Specifications (Subject To Change)

General

Scan Rate: 70,000 A-scan per second

Axial Resolution
Digital/Optical: 1.6/3.4 µm

Transversal Resolution: 20 µm

Wave Length: 855 nm**

Minimum Pupil Diameter: 3.0 mm

Working Distance: 35 mm

Fundus Imaging Method
Scanning Laser Ophthalmoscope (SLO)

> **SLO Size (H x V):** 13 mm x 10 mm
> **OCT Width:** 3-13 mm
> **OCT Depth:** 2.0 mm

Internal Fixation Light: 1 mm x 1 mm or 6 mm x 6 mm

External Fixation Light: EL-1 (optional, sold separately)

Dimension and Weight
OCT-A1 Device (without EL-1)

> **Dimension (W x D x H)**
> 387 mm x 499 mm x 474 mm

> **Weight:** 64 lb./29 kg

 * 1 (no averaging), 5, 10, 20, or 50 scans.
** Output on cornea < 2.67 mW (scanning beam controlled by the laser safety system).

OCT Scan Parameters

Retina Scan Mode

Vitreous and Choroidal Modes Available C-gate
Direction: Normal/Inverse

Imaging Position (fixation light position)
Macular/Disc/Posterior

> **Macula 3D**
> 1024 A-scan (H) x 128 B-scan
> Scanning Area: 10 mm x 10 mm

> **Glaucoma 3D:** 1024 A-scan (V) x 128 B-scan
> Scanning Area: 10 mm x 10 mm

> **Disc 3D:** 512 A-scan (H) x 256 B-scan
> Scanning Area: 6 mm x 6 mm

> **Custom 3D:** 1024 A-scan (H/V) x 128 B-scan
> Scanning Area: 3 mm to 10 mm (adjustable range)

Multi Cross
Horizontal: 1024 A-scan (H) x 5 B-scan
Vertical: 1024 A-scan (V) x 5 B-scan

Scanning Area
Horizontal: 3 to 13 (adjustable range)
Vertical: 3 to 10 (adjustable range)
Number of Averaging: 1 (no averaging), 5, 10

Cross
Horizontal: 1024 A-scan (H) x 1 B-scan
Vertical: 1024 A-scan (V) x 1 B-scan

Scanning Area
Horizontal: 3 to 13 (adjustable range)
Vertical: 3 to 10 (adjustable range)
Number of Averaging: 1 (no averaging), 5, 10, 20, 50

Radial: 1024 A-scan x 12 B-scan
Scanning Area: 3 to 10 mm (adjustable range)
Number of Averaging: 1 (no averaging), 5, 10

Software: Canon RX Capture Software

Computer
> **CPU:** Intel Core i7 (3.3GHz or more, 6 core or more)
> **GPU**
> > Using 3D: NVIDIA Video Card (Quadro 4000 or better) memory 1GB or larger
> > Using 3D: Full-HD, 24/32-bit color-compatible GPU

> **Memory:** Basic 6GB or larger
> **HDD**
> > Local: 2TB or larger (RAID-1 mirroring)
> > Remote: 100GB or larger

> **USB Port:** 4 port or more
> **LAN:** 1000Base-T or more
> **OS:** Windows 10 Pro (x64, Version1607-) English/Japanese

Monitor
> **Display:** Size: 21.5" or larger
> 1920 x 1080 (24 or 32 bit color)

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