The RTVue system provides 5 micron depth and 15 micron transverse resolution allowing evaluation and quantification of fine detail in the retina layers.

The scan patterns for retina are designed to make advantage of the speed and resolution the technology offers. The RTVue systems provide cone-scane retinal metrics for thickness, volume and elevations, while removing or eliminating issues in accuracy resulting from the motion artifacts of previous technology.

With the 2 - 2.3mm scan depth, imaging and evaluation of the choroid layer provides information similar to pathologic, not available before.

- 3D Imaging access a new perspective on the pathology not available before. The RTVue 3D rendering presents a more realistic image than other systems. Fly through manually, or auto Playback with reference in the SLO and B-scan presentation windows.

The Normative Standard for the MM5 scan brings new clinical perspective. Bi-lateral and Progression reports along with significance from Normal mapping provide a valuable tool for detecting and monitoring change in retina thickness.

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Our mission is to apply our deep understanding and expertise with OCT to lead the commercialization of new imaging modalities that improve the diagnosis and treatment of ocular diseases.

RTVue Specifications

Scanner
OCT Image: 26,000 A-scan/second
Frame Rate: 256 to 4096 A-scan/Frame
Depth Resolution: (in tissue) 5.0µm
Transverse Resolution: 15µm
Scan Range: Depth: 2-2.3mm Transverse: 2mm to 12mm
Scan Beam Wavelength: ?=840 ± 10nm
Exposure Power at Pupil: 750µm

Fundus Imager
FOV: 32° (H) x 23° (V)
Minimum Pupil diameter: 3.0 mm
Illumination: Near IR

Bests Disease
Polypoidal Choroidal Vasculopathy
**GLAUCOMA**

A combination of unique scan patterns, serial registration capability, and an exclusive "Deviation" analysis makes the RTVue a powerful early glaucoma detection and management tool.

Specially introduced the NHM4 (Nerve Head Mapping) scan to provide clinicians with the equivalent analysis information produced by three popular glaucoma tools, all in one quick scan. The NHM4 goes beyond other retinal oscillometric measures with the aid of a novel "In the box" analysis and potential inspection. Serial registration allows real progression and trend analysis.

The earliest changes in the ganglion cell complex (GCC), occur in the area where they are most dense. The GCC (MM7) normal analysis output is unique to the RTVue system in detecting significant changes in the ganglion cells associated with glaucoma. The "Deviation from Normal" and "Significance" analysis offers detection with very high sensitivity and specificity.

The 3D optic disc scan is the compilation of a series of B-scans over a 4mm x 4mm area (default). This animated presentation of nearly 52,000 A-scans provides an interactive evaluation of the 3-dimensional data, and precise determination of the disc boundary. The Sum (C-Scan) option provides a new perspective on a "top down" view of the optic nerve, including visualization of the Lamina cribrosa. A full-screen "loop play" option provides a valuable clinical overview and patient or staff education tool.

**CORNEA ANTERIOR MODULE**

The new CAM option for the RTVue system offers 5 micron resolution OCT imaging of the cornea and anterior segment.

As an optional add-on to the RTVue FD-OCT retina scanning system, the CAM offers clinical utility at a fraction of the cost of stand-alone anterior imaging systems.

- **Pachymetry, angle measurement and epithelial/LASIK flap measurement** makes the CAM option a valuable imaging tool.
- The CAM option extends the RTVue clinical functionality to include:
  - **Pachymetry Map**
  - **Posterior corneal analysis**
  - **TISA 500 / AOD angle measurement**
  - **Peripheral / central flap measurement**
  - **Aniso / disc placement**
  - **Phakic / IOL vault measurement**
  - **Scleral / iridial imaging**
  - **Foreign Body Documentation**
  - **Surgical / pathology scar monitoring**

**CAM Options**
As the first Fourier/spectral-domain OCT system in the US, the RTVue FD-OCT set the standard for high-speed, high-resolution tomography scanning. Allowing discrete layers of the retina, as well as the layers of the choroid, to be visualized clinically for the first time, the 5 micron resolution images have ushered in a new era of retinal pathology documentation and diagnostic imaging. Comparative studies have demonstrated that the system offers earlier detection of minute changes in retinal pathology than time-domain based systems, allowing for earlier intervention and better outcomes for patients.

The RTVue system uses an IR "live view" alignment camera to allow for natural dilation of the patient’s pupil. Scans can be accomplished. The infra-red fundus image is acquired without a flash or visible light to irritate the patient’s eyes. All captured scans are posted immediately for individual review prior to saving the data set. Due to the absence of constriction causing illumination at any phase of the capture session, repeat scans can be imaged immediately.

The system provides a number of advanced features, designed by OCT thought leaders, allowing clinicians to explore new clinical methods.

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Pachymetry, angle measurement and epithelium/LASIK flap measurement makes the CAM option a valuable imaging tool. The CAM option extends the RTVue clinical functionality to include:

- Pachymetry Map
- Keratoconus Analysis
- TISA 500 / AOD Angle Measurement
- Epithelium / Lasik Flap Measurement
- Anterior Lens Assessment
- Phakic IOL Vault Measurement
- Shunt / Implant Imaging
- Foreign Body Documentation
- Surgical / Pathology Scar Monitoring

The CAM option offers high-resolution imaging of the cornea, for detailed documentation and precise measurement of the cornea and anterior segment.

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The 3D-optic disc scan is the compilation of a series of B-scans over a 4mm x 4mm area (default). This animated presentation of nearly 52,000 A-scans provides an interactive evaluation of the 3-dimensional disc, and precise determination of the disc boundary. The "loop play" option provides a "top down" view of the optic nerve, including visualization of the Lamina cribrosa. A full-screen "loop play" option provides a valuable clinical overview and patient or staff education tool.

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The CAM option offers high-resolution imaging of the cornea for detailed documentation and precise measurement of the cornea and anterior segment.

As an optional add-on to the RTVue-FD-OCT retina scanning system, the CAM offers clinical utility at a fraction of the cost of stand-alone anterior imaging systems.

- Pachymetry, angle measurement and epithelium/LASIK flap measurement makes the CAM option a valuable imaging tool.
- The CAM option extends the RTVue clinical functionality to include:
  - Pachymetry Map
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  - TISA 500 / AOD Angle Measurement
  - Anterior Chamber Depth
  - Phakic IOI Vault Measurement
  - Surgical / Pathology Scar Monitoring
  - Foreign Body Documentation

RTVue Fourier-Domain Optical Coherence Tomography System

GLAUCOMA

CORNEA ANTERIOR MODULE
RETINA
The RTVue system provides 5 micron depth and 15 micron transverse resolution allowing evaluation and quantification of fine detail in the retina layers.

The scan patterns for retina are designed to make advantage of the speed and resolution the technology offers. The RTVue systems provides cone-to-cone options for binocular, volume and elevations, while removing or eliminating issues in accuracy resulting from the motion artifacts of previous technology.

With the 2-2.3mm scan depth, imaging and evaluation of the choroid layer provides information useful to pathology, not available before.

3D Imaging allows a new perspective on the pathology not available before. The RTVue 3D rendering presents a more realistic image than other systems. Fly-through manually or Auto Play full screen with reference in the SLO and B-scan presentation windows.

The Normative Database for the MM5 scan brings new clinical perspective. Bi-lateral and Progression reports along with significance from normal mapping provide a valuable tool for detecting and monitoring change in retinal thickness.

OPTOVUE
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3D imaging access, a new perspective of the pathology not available before: The RTVue 3D rendering presents a novel realistic image than other systems. Fly through manually or auto Play full access with reference imaging in the SLO and B-scan presentation windows.

The Normative database for the MMS scan brings new clinical perspective. Bi-lateral and Progression reports along with Significance from Normal mapping provide a valuable tool for detecting and monitoring change in retina thickness.

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