## RS-3000 Advance 2 Specifications

### Optical Coherence Tomography (OCT) scanning
- **Principle:** Spectral domain OCT
- **Optical resolution:**
  - X: 0.7 μm, Y: 20 μm
  - Y: 0.7 to 9 mm
  - Z: 2.1 mm
- **Digital resolution:**
  - X: 4 μm, Y: 3 μm
  - Z: 880 nm
- **Scan range:**
  - X: 3 to 12 mm
  - Y: 3 to 9 mm
  - Z: 2.1 mm
- **Digital resolution:**
  - X: 3 to 12 mm
  - Y: 3 to 9 mm
  - Z: 880 nm
- **Scan speed:** Up to 85,000 A-scans/s
- **Image averaging:** Up to 100 images
- **Normative database area:** 9 x 9 mm (macula), 6 x 6 mm (disc)
- **Internal fixation lamp:** 637 nm
- **External fixation lamp:** 630/565 nm
- **Auto alignment:** Z-direction
- **Minimum pupil diameter:** 2.5 mm
- **Focus adjustment range:**
  - X: -15 to +10 D (VD=12 mm)
  - Y: 35.5 mm
- **Software analysis:** Segmentation of 6+1 retinal layers, Macular thickness map, RPL thickness map, [NFL+GCL+IPL] analysis, Optic nerve analysis, Follow-up analysis
- **Fundus surface imaging**
  - **Principle:** Confocal scanning laser ophthalmoscope (SLD, 880 nm)
  - **Angle of view:** 40º x 30º (zoom: 20º x 15º)
  - **PC networking:** Available
  - **Display:** 11.6-inch 8.4-inch color LED
  - **Power supply:** AC 100, 120, 230 V
  - **Power consumption:**
    - Transformer: 1,000 VA
    - (transformer): 50/60 Hz
    - (transformer): 150 W
    - (transformer): 300 VA
- **Dimensions/Mass:**
  - X: 380 (W) x 524 (D) x 600 to 850 (H) mm / 28 kg
  - Y: 25.2 (W) x 18.6 (D) x 23.6 to 33.5 (H)“ / 62 lbs.
- **Optional accessories:** Anterior segment module (optional), Motorized optical table (optional), PC rack, Motorized optical table (optional), Motorized optical table (optional)
  - **Dimensions/Mass:**
    - X: 369 (W) x 472 (D) x 600 to 850 (H) mm / 28 kg
    - Y: 25.2 (W) x 18.6 (D) x 23.6 to 33.5 (H)“ / 62 lbs.
- **Motorized optical table (optional)**
  - **Dimensions/Mass:**
    - X: 960 (W) x 700 (O) x 700 (O) mm / 28 kg
    - Y: 24.4 (W) x 17.7 (D) x 27.6 (H)” / 64 lbs.
- **Anterior segment module (optional)**
  - **Dimensions/Mass:**
    - X: 620 (W) x 450 (O) x 700 (O) mm / 29 kg
    - Y: 24.4 (W) x 17.7 (D) x 27.6 (H)” / 64 lbs.

### Confocal Scanning Laser Ophthalmoscope
- **Product/Model name:** Optical Coherence Tomography RS-3000 Advance
- **Specifications:**
  - **Principle:** Spectral domain OCT
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Premium OCT for your daily practice
-Providing a comprehensive solution for retina and glaucoma analysis-

Retina Analysis

Retinal mode

Choroidal mode

AngioScan

*AngioScan is optional software.

Deep capillary

Superficial capillary

Panorama image

SLO

SLO-based eye tracer
Real time compensation for eye movements, resulting in more accurate scans, ensuring higher image quality and maximum reproducibility

Glaucoma Analysis

9 x 9 mm
Normative database (macula)

6 x 6 mm
Normative database (disc)

Images courtesy of Hokkaido University Hospital

Images courtesy of Kagoshima University Hospital
Premium OCT for your daily practice
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## Retina Analysis

- **Choroidal mode**
  - Image courtesy of Hokkaido University Hospital

## AngioScan

- **AngioScan** is optional software.
- **Panorama Image**
- **Superficial capillary**
- **Deep capillary**
- **Outer retina**
- **Choroid**
  - Images courtesy of Kagoshima University Hospital

## Glaucoma Analysis

- **9 x 9 mm**
  - Normative database (macula)
- **6 x 6 mm**
  - Normative database (disc)

## SLO

- **SLO-based eye tracer**
- Real time compensation for eye movements, resulting in more accurate scans, ensuring higher image quality and maximum reproducibility
Retina Analysis

**Selectable OCT Sensitivity**
Selection of the appropriate OCT sensitivity allows acquisition of B-scan images through media opacities.

- Ultra fine
- Fine
- Regular

B-scan images in cataractous eye captured with ultra fine, fine and regular sensitivities

**Tracing HD Plus**
The tracing HD plus function traces involuntary eye movements to maintain the same scan location on the SLO image for accurate image capture. This function allows accurate averaging of up to 120 images. The tracing HD plus function combined with ultra fine sensitivity image capture results in high resolution and high contrast images of chorioretinal pathology.

**Enhanced Image**
Enhanced image function allows greater resolutions of vitreous retina images by adjusting brightness of weak OCT signals.

**Macula Multi and Macula Radial**
- Macula multi and macula radial scan patterns enable multiple raster scans simultaneously, decreasing rescans.
- The tracing HD function centers the scan on the fovea or on the region of interest.

**Macula Comparison**
- Users can select two images for comparison.
- Chronological change in retinal thickness can be analyzed with a graph indicating its trend by designating the area on the thickness graph based on user preference.

**En face OCT**
- En face view presents frontal sections of the retinal layers.
- Combined assessment of the B-scan and En face images defines the shape and the extension of lesions.

**AngioScan**
- AngioScan images illustrate retinal microvasculature using a non-invasive method.
- OCT Angiography allows segmentation of layers of interest in exquisite detail for greater in-depth evaluation.

**Select and Rescan Mode (SR Mode)**
The select and rescan mode allows capture of an entire image of the retina with the macula map scan pattern and select a cross-sectional OCT image with the location of lesion from up to 256 images based on user preference. Cross-sectional OCT images can be reacquired on the selected region with the tracing HD plus function. This mode is useful in efficiently obtaining a high-quality image of a region of interest.
Retina Analysis

**Selectable OCT Sensitivity**
Selection of the appropriate OCT sensitivity allows acquisition of B-scan images through media opacities.

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The tracing HD plus function traces involuntary eye movements to maintain the same scan location on the SLO image for accurate image capture. This function allows accurate averaging of up to 120 images. The tracing HD plus function combined with ultra fine sensitivity image capture results in high resolution and high contrast images of chorioretinal pathology.

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- Macula multi and macula radial scan patterns enable multiple raster scans simultaneously, decreasing rescans.
- The tracing HD function centers the scan on the fovea or on the region of interest.

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Glaucoma Analysis

**Macula Map**
- Wide area 9 x 9 mm normative database allows analysis of [NFL+GCL+INL] thinning from optic disc to macula in a single report.

**Glaucoma Comparison**
- User can select two images for comparison.
- The Torsion Eye Tracer (TET) ensures accurate image capture by correcting ocular cyclotorsion and fundus tilt.
- TET ensures high image reproducibility during image capture for follow-up examinations, enhancing the accuracy of comparative analysis.

**Anterior Chamber Angle**
- The optional anterior segment module captures images of the anterior segment for refractive and lens implant cases.
- ACA, ADD500 (ADD750), and TISA500 (TISA750) can be measured.
- Further details are available in the "Anterior Segment Analysis" section.

**Disc Map**
- Optic nerve head (ONH) and Retinal nerve fiber layer (RNFL) thickness can be examined.
- Optic shape editor function allows greater accuracy of C/D ratio analysis by editing optic cup and disc segmentation in detail.

**Glaucoma Progression**
- Data from 50 different visits can be analyzed.
- The chronological change is presented for retinal thickness with various maps, charts, and graphs for trend analysis.
- Trend analysis allows long-term follow-up examination. It is available for user designated scan patterns.

**AngioScan**
- AngioScan image allows assessment of the structural vasculature of the optic disc.
- OCT-Angiography scanning of the optic disc is available for 3 x 3 mm up to 9 x 9 mm.
Glaucoma Analysis

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**Optic Map**
- Optic nerve head (ONH) and retinal nerve fiber layer (RNFL) thickness can be examined.
- Optic shape editor function allows greater accuracy of C/D ratio analysis by editing optic cup and disc segmentation in detail.
AngioScan

OCT-Angiography
This non-invasive method does not require contrast dye injection for examination of the layer-by-layer microvasculature within the retina and choroid. Radial peripapillary capillary plexus (RPCP), superficial capillary plexus (SCP), internal capillary plexus (ICP) and deep capillary plexus (DCP) can be analyzed. Images of the superficial capillary, deep capillary, outer retina and choroid can be displayed for clinical evaluation.

Flexible Functions
Tracing HD Plus
- The tracing HD function tracks eye movements to maintain the same scan location on the SLO image for accurate image capture.
- Based on the clinical requirement, the tracing function can be set for high definition and high contrast imaging. Images can also be captured within seconds without the tracing function.

Selectable Definition
Two-, four- or eight-scan per line (2 HD, 4 HD, 8 HD) can be selected.
8 HD provides high quality images combined with the tracing HD function.

Fine Mode
Fine mode OCT angiography results in high-resolution images to enhance diagnosis.

Wide Area Image
Wide Area Scan
Scan size can range from 3 mm to maximum of 9 mm in 0.3 mm increment.
3 x 3 mm
4.5 x 4.5 mm
6 x 6 mm
Wide area scan 9 x 9 mm

Auto Panorama Imaging
During the panorama acquisition, the tracing HD plus is activated and multiple, consecutive image captures are performed automatically without moving the fixation target. The tracing HD plus feature reduces image overlap and/or gaps between images. Panoramas up to 12 x 12 mm can be automatically composed.
6 x 6 mm
(5 images: 3.6 x 3.6 mm each)
9 x 9 mm
(5 images: 4.5 x 4.5 mm each)
9 x 9 mm
(5 images: 4.5 x 4.5 mm each)
12 x 9 mm
(6 images: 4.5 x 6.0 mm each)
12 x 9 mm
(6 images: 4.5 x 6.0 mm each)
12 x 12 mm
(5 images: 6.0 x 6.0 mm each)

Analytics
Area Analysis
This function pictorially represents the foveal avascular zone (FAZ) and the density, size and area of retinal vasculature.

Depth Color
Layer-by-layer color representation for visualization of the depth of retinal vasculature.

CNV Flow
This function allows for easy, rapid assessment of abnormal vessels in the outer retina.

Projection Artifact Removal
Shadows from the inner retina are removed enhancing the details of the outer retinal vasculature.

Clinical Case
BRVO
DR
CNV
DME

Images courtesy of Kagoshima University Hospital
Prof. Manish Nagpal, Retina Foundation & Eye Research Centre
Prof. Giovanni Staurenghi, Sacco Hospital, University of Milan
Prof. Stanislao Rizzo, Careggi University Hospital, University of Florence
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<table>
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<tr>
<th>Panorama Image</th>
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<td>Width: 12 mm</td>
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**Analytics**

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- This function pictorially represents the foveal avascular zone (FAZ) and the density, size and area of retinal vasculature.

**Depth Color**
- Layer-by-layer color representation for visualization of the depth of retinal vasculature.

**CNV Flow**
- This function allows for easy, rapid assessment of abnormal vessels in the outer retina.

**Projection Artifact Removal**
- Shadows from the inner retina are removed enhancing the details of the outer retinal vasculature.

**Clinical Case**

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Images courtesy of Kagoshima University Hospital
Dr. Manish Nagpal, Retina Foundation & Eye Research Centre
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Prof. Stanislao Rizzo, Careggi University Hospital, University of Florence
Anterior segment adaptor

Angle measurement

Cornea measurement

The optional anterior segment module enables observation and analyses of the anterior segment.

- ACA
  Angle between posterior corneal surface and iris surface
- AOD500 (AOD750)
  Distance between iris and a point 500 µm (or 750 µm) away from scleral spur on posterior corneal surface
- TISA500 (TISA750)
  Area circumscribed with AOD500 (or AOD750) line, posterior corneal surface, line drawn from scleral spur in parallel with AOD line, and iris surface

- Corneal thickness
  Corneal thickness of apex and user's preferred sites
- Corneal thickness map
  Map indicating corneal thickness measured in radial directions

Long Axial Length Normative Database

The long axial length normative database is optional software for use with the RS series designed to assist clinicians in diagnosing macular diseases and glaucoma. This normative database was developed based on data from normal eyes (free of ocular pathology) with long axial length. Data was collected from Asian cases by measuring the macular area in 3-D to obtain retinal thickness values, such as full retinal and [NFL+GCL+IPL] thickness, which is important for the diagnosis of macular diseases and glaucoma.

Sample analysis of a patient with long axial length

Anterior Segment Analysis

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Clinical Case

- Age-related Macular Degeneration (AMD)
- Diabetic Macular Edema (DME)

Multimodal Imaging

Evaluate retinal structure and function simultaneously using combined OCT and Microperimetry images.

Various OCT modalities can be registered with Microperimetry.

- OCT-Angiography + Microperimetry (Outer retina)
- OCT-Angiography + Microperimetry (Deep capillary)
**Anterior Segment Analysis**

The optional anterior segment module enables observation and analyses of the anterior segment.

- **ACA**
  - Angle between posterior corneal surface and iris surface

- **AOD500 (AOD750)**
  - Distance between iris and a point 500 µm (or 750 µm) away from scleral spur on posterior corneal surface

- **TISA500 (TISA750)**
  - Area circumscribed with AOD500 (or AOD750) line, posterior corneal surface, line drawn from scleral spur in parallel with AOD line, and iris surface

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**Clinical Case**

*Age-related Macular Degeneration (AMD)*

*Diabetic Macular Edema (DME)*

Images courtesy of Prof. S. Rizzo, MD and Dr. D. Bacherini, MD, University of Florence
### Specifications

**RS-3000 Advance 2 Specifications**

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<td>Working distance</td>
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<td><strong>Software analysis</strong></td>
<td>Segmentation of ELM, internal layers</td>
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<tr>
<td></td>
<td>Macular thickness map</td>
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<td>RNFL thickness map (MFL+GCL+IPL) analysis</td>
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<td>Power consumption</td>
<td>300 VA</td>
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<tr>
<td>Maximum power output</td>
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</tr>
<tr>
<td>(transformer)</td>
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<tr>
<td><strong>Dimensions/Mass</strong></td>
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<td>15.0 (W) x 19.6 (D) x 19.9 (H) lbs.</td>
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**Product/Model name:** Optical Coherence Tomography RS-3000 Advance 2

**Brochure and listed features of the device are intended for non-US practitioners.**

**Specifications may vary depending on circumstances in each country.**

**Specifications and design are subject to change without notice.**