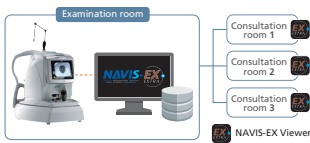


## NAVIS-EX

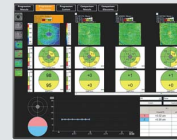
NAVIS-EX is an image filing software, which networks the RS-3000 Advance / Lite and other NIDEK diagnostic devices. This functionality enhances the capability of the diagnostic device with additional features and increases clinical efficiency.

- Analysis and report
- Normative database
- Long axial length normative database (optional software)
- DICOM connectivity

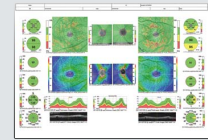


## The OCT for general screening

Providing the high resolution OCT images and clinically useful analyses, the RS-3000 Lite achieves the optimum balance between cost and performance with its fundus surface imaging system. The RS-3000 Lite has been developed for screening in general eye clinics.



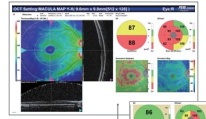
Multifunctional follow-up



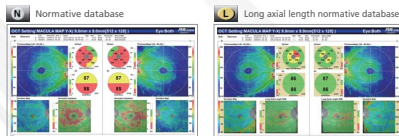
Customized report

## 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 were 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



Long axial length normative database with axial length compensation

## Anterior Segment Analysis

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

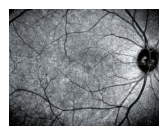
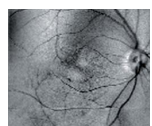
**Angle measurement**

- 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

**Cornea measurement**

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

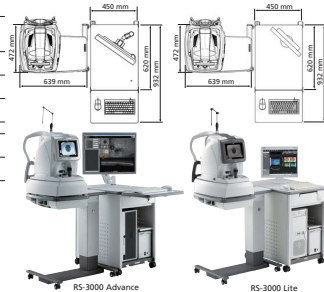
Anterior segment adaptor

Model	RS-3000 Advance	RS-3000 Lite
Fundus surface imaging	 SLO (12 fps frame rate) 40° x 30° angle of view	 OCT phase fundus (1.8 fps frame rate) 30° x 30° angle of view
Scan speed	Up to 53,000 A-scans / s	---
OCT sensitivity	Regular, Fine, Ultra fine	Regular, Fine
Normative database area	9 x 9 mm (macula), 6 x 6 mm (disc)	---
Long axial length normative database	9 x 9 mm (macula)	---
OCT-Angiography (optional)	Available	Not available
Scan pattern (retina)	Macula line (scan angle changeable by 1°) Macula cross Macula map (with cross scan / without cross scan) Macula multi (X-Y: 5 x 5) Macula radial (6 lines / 12 lines) Disc circle Disc map Disc radial (6 lines / 12 lines)	Macula line (scan angle changeable by 15°) Macula map (with cross scan / without cross scan) Macula multi (X-Y: 5 x 5) Disc map
Scan pattern (cornea) with optional anterior segment module	Cornea line Cornea cross Cornea radial (6 lines / 12 lines) ACA line	Cornea radial (6 lines / 12 lines) ACA line
Image averaging	Up to 120 images	Up to 50 images
Choroid mode	Available	Not available
Torsion eye-tracker	Available	Not available
Follow-up tracing	Available	Not available
Follow-up analysis	Available	---
Tracing HD	Available	Not available
HD checker	Available	Not Available
Flattable cross scan	Available	Not Available
Select and rescan mode	Available	Not Available
Auto shot (for follow-up image capture)	Available	Not available
Internal fixation target	Cross shape (laser)	Circle shape (LED)
PC monitor	21"	17"

### RS-3000 Advance / Lite Specifications

Model	RS-3000 Advance	RS-3000 Lite
OCT scanning	Spectral domain OCT	
Principle	Z: 7 µm, X-Y: 20 µm	←
Optical resolution	X: 3 to 12 mm	X: 3 to 9 mm
Scan range	Y: 3 to 9 mm	Y: 3 to 9 mm
	Z: 2.1 mm	Z: 2.1 mm
Digital resolution	Z: 4 µm, X-Y: 3 µm	←
OCT light source	SLD, 880 nm	←
Scan speed	Up to 53,000 A-scans / s	←
Internal fixation lamp	637 nm	660 nm
External fixation lamp	630 / 565 nm	←
Auto alignment	Z direction	←
Minimum pupil diameter	42.5 mm	←
Focus adjustment range	-15 to +10 D (VD=12 mm)	←
Working distance	35.5 mm	←
Software analysis	Segmentation of 6+1 retinal layers Macular thickness map RNFL thickness map [NFL+GCL+PL] analysis Optic nerve analysis Follow-up analysis	←
Fundus surface imaging	OCT phase fundus	
Principle	Confocal scanning laser ophthalmoscope (SLO light source: 785 nm)	
Angle of view	40° x 30° (zoom: 20° x 15°)	36° x 30°
PC networking	Available	←
Display	Tilttable 8.4 inch color LCD	←
Power supply	AC 100, 120, 230 V	←
Power consumption	300 VA	←
Maximum power output (transformer)	1,000 VA	←
Dimensions / Mass	380 (W) x 524 (D) x 511 (H) mm / 34 kg 15.0 (W) x 20.6 (D) x 20.1 (H)" / 75 lbs	380 (W) x 524 (D) x 511 (H) mm / 33 kg 15.0 (W) x 20.6 (D) x 20.1 (H)" / 73 lbs
Optional accessories	Anterior segment module, motorized optical table, PC rack, long axial length normative database, OCT-Angiography	Anterior segment module, motorized optical table, PC rack, long axial length normative database

Anterior segment module (optional)	
Software analysis	Corneal thickness measurement Corneal thickness map Angle measurement
Motorized optical table (optional)	
Dimensions / Mass	639 (W) x 472 (D) x 600 (H) mm / 28 kg 25.2 (W) x 18.6 (D) x 23.6 to 23.5 (H)" / 62 lbs
Power supply	AC 100 V (available from the transformer)
Power consumption	50 / 60 Hz 150 W
PC rack (optional)	
Dimensions / Mass	620 (W) x 450 (D) x 700 (H) mm / 29 kg 24.4 (W) x 17.7 (D) x 27.6 (H)" / 64 lbs



Product / Model name: Optical Coherence Tomography RS-3000 Advance  
 Specifications may vary depending on circumstances in each country.  
 Specifications and design are subject to change without notice.

**Eye & Health Care**  
**NIDEK CO., LTD.**

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## Optical Coherence Tomography RS-3000 Advance / Lite



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