



# Product Guide

THE ART OF EYE CARE



# Provide the joy of vision and health care through our technology, and deliver unwavering commitment to people all over the world

Our dream “Delivering the joy of vision” - In 1971, NIDEK was born from one engineer’s passion. NIDEK has since been developing various products and services that provide people with healthy and comfortable lives, and our creation of the joy of vision now spreads to more than 100 countries globally. Through half a century of passion for each product, each eye, and the health of every person with unchanging determination, NIDEK will continue to take on the challenge.

## “Invisible to Visible”

Development of visual prostheses is the dream and goal of NIDEK.

NIDEK has been conducting research and development on effective visual prostheses since 2001. Our mission is to create a medical implant system that reconstructs vision by electrically stimulating the retinal neurons with multiple points of light that the brain of a blind person recognizes as images.



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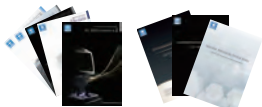
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Visit the Product page on the NIDEK website for further information

<https://www.nidek-intl.com/product/>



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Ophthalmic Laser

Surgical & IOL

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# Refraction

Exceptionally reliable Refraction system achieved by continued pursuit of quality

NIDEK provides the best solution to realize high-standard eye examination according to a variety of customers' needs. Our extensive product lineup makes your examination room more efficient and more comfortable. The superior quality and user-friendliness of NIDEK refraction products have earned the deep trust of our customers all over the world for many years.

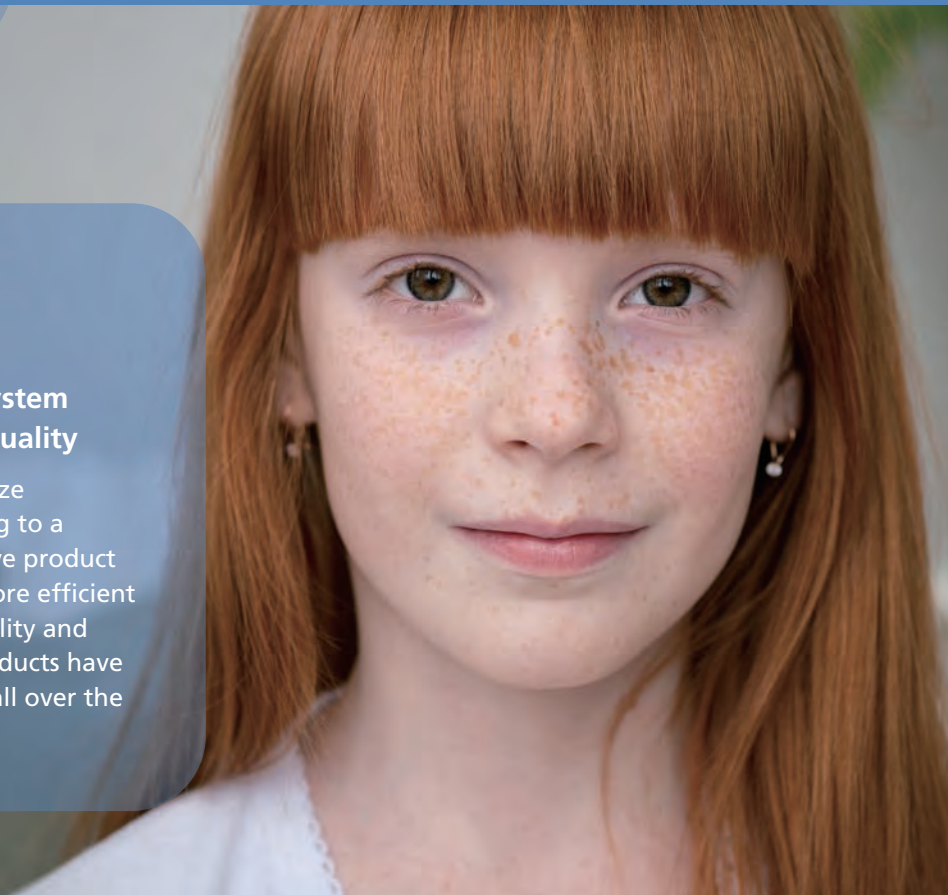


Photo: ARK-1s

- Auto Ref/Keratometer **ARK-1s/1a/1**
- Auto Refractometer **AR-1s/1a/1**

**Highly accurate refractions with functionality that meets a variety of needs**

- » Accurate refraction measurement
- » Easy VA measurement with glare test\*1
- » Keratometry measurement with mire ring\*2
- » Accommodation measurement and opacity assessment\*3

\*1 Available for the ARK-1s and AR-1s

\*2 Available for the ARK-1s/1a/1

\*3 Available for the ARK-1s/1a and AR-1s/1a

Power supply: 100 to 240 V AC, 50/60 Hz

Power consumption: 100 VA

Dimensions/mass: 260 (W) x 495 (D) x 457 (H) mm / 20 kg

Product/model: AUTO REF/KERATOMETER ARK-1/ARK-1a/ARK-1s

AUTO REFRACTOMETER AR-1/AR-1a/AR-1s

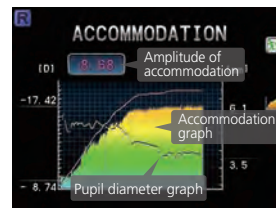




Photo: ARK-F

- Auto Ref/Keratometer **ARK-F**
- Auto Refractometer **AR-F**

**A more seamless workflow through fully-automatic measurement or intuitive manual operation with a selectable interface**

- » Advanced operation
- » Accurate measurement
- » Flexible and space-saving design
- » Practical and user-friendly features
- » Network configuration with high flexibility



Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 100 VA  
 Dimensions/mass: 305 (W) x 492 (D) x 488 (H) mm / 20 kg  
 Product/model: AUTO REF/KERATOMETER ARK-F  
 AUTO REFRACTOMETER AR-F



Photo: HandyRef-K

- Handheld Ref/Keratometer **HandyRef-K**
- Handheld Refractometer **HandyRef**

**User-friendly hand-held unit for easy portability**

- » Full graphic LCD with 3.5-inch color screen
- » Supine position mode
- » Pupil zone imaging method
- » SynchroScan Technology
- » Melody function
- » Auto shot mode



Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 60 VA  
 Dimensions/mass  
   Main body: 206 (W) x 181 (D) x 224 (H) mm (including occluders)  
                   998 g (including battery pack)  
   Station: 224 (W) x 283 (D) x 147 (H) mm  
                   2.7 kg (printer-equipped model), 2.5 kg (model without printer)  
 Product/model: HANDHELD REF/KERATOMETER HandyRef-K  
 HANDHELD REFRACTOMETER HandyRef





Display of eye diagram image report

Refractive Power / Corneal Analyzer **OPD-Scan III** *VS*

**Enhanced face-to-face consulting for optimal eyeglass prescription**

- » Comprehensive vision analysis
  - Wavefront aberrometer / Topographer / Auto refractometer
  - Auto keratometer / Pupillometer
- » Easy-to-understand reports presented with tablet viewer
  - Basic information report / Topography report / Simulation report / Eye diagram image report
- » Wide range of display patterns
- » Superior examination with NIDEK Refractor



Basic information report



Topography report



Simulation report

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 110 VA  
 Dimensions/mass: 284 (W) x 525 (D) x 533 (H) mm / 23 kg  
 Product/model: REFRACTIVE POWER / CORNEAL ANALYZER OPD-Scan III



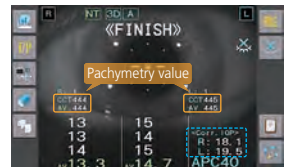
Auto Ref/Kerato/Tono/Pachymeter **TONOREF™ III**

**Patient friendly unit with high efficiency**

- » Accurate refraction measurement
- » Accurate keratometry with double mire ring
- » Automatic calculation of corrected IOP based on central corneal thickness
- » Accommodation measurement and opacity assessment
- » Gentle tonometry with APC (Auto Puff Control)



Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 100 VA  
 Dimensions/mass  
 ARK standard mode: 260 (W) x 495 (D) x 505 (H) mm / 22 kg  
 NT standard mode: 260 (W) x 495 (D) x 460 (H) mm / 22 kg  
 Product/model: AUTO REF/KERATO/TONO/PACHYMETER TONOREF III



Corrected IOP



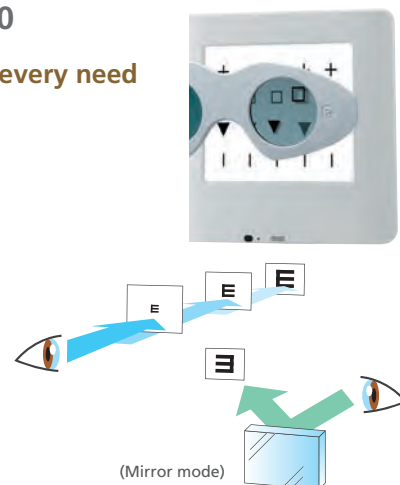
### System Chart **SC-1600 (Pole)/1600**

#### Versatile system chart suitable for every need

- » Polarized charts for binocular test\*
- » Selectable refraction distance
- » Contrast test
- » Center display function

\*Available for the SC-1600 (Pole)

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 100 VA  
 Dimensions/mass: 520 (W) x 47 (D) x 455 (H) mm / 5 kg  
 Product/model: SYSTEM CHART SC-1600

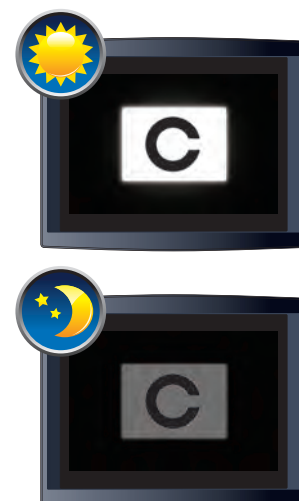


### Space Saving Chart **SSC-370**

#### Equivalent accuracy as actual refraction distances

- » Night vision test
- » Chart position adjustment
- » White LED background
- » Combined with the optometry system

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 60 VA  
 Dimensions/mass: 396 (W) x 268 (D) x 560 (H) mm / 18.5 kg  
 Product/model: SPACE SAVING CHART SSC-370



### Chart Projector **CP-9**

#### Brighter and clearer chart display with white LED

- » Long-life light source for improved cost efficiency
- » Brighter and clearer chart display with white LED
- » Optical zoom for a variable installation distance
- » Sophisticated design
- » Easy focus adjustment by rotational LED aperture\*

\*Available for the CP-9 EF

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 60 VA  
 Dimensions/mass  
 Main body: 188 (W) x 300 (D) x 192 (H) mm / 3.1 kg  
 Remote control: 66 (W) x 184 (D) x 21 (H) mm / 150 g (including batteries)  
 Product/model: CHART PROJECTOR CP-9



## Intelligent Refractor RT-6100

### Breakthrough refractor for precise and efficient examinations

- » Streamlined refractor head
- » Selectable user interface
  - User-friendly control console
  - Empowered Refraction Solution new
- » Binocular open refraction
- » Program edit function
- » Simplified data transfer



Programms 5															
No.	Order	Subj	Par	R	L	S	AC	ADD	ADD	ADD	ADD	ADD	ADD	ADD	ADD
01		Subj	Par	R	L	S									
02		Subj	Par	R	L	S									
03		Subj	Par	R	L	S									
04		Subj	Par	R	L	S									
05		Subj	Par	R	L	S									
06		Subj	Par	R	L	S									
07		Subj	Par	R	L	S									
08		Subj	Par	R	L	S									

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 90 VA

Dimensions/mass:

Refractor head: 408 (W) x 107 (D) x 277 (H) mm / 3.2 kg

Control console: 260 (W) x 230 (D) x 207 (H) mm / 2.1 kg

Relay box: 189 (W) x 221 (D) x 73 (H) mm / 1.4 kg

Printer: 101 (W) x 86 (D) x 121 (H) mm / 0.6 kg

Product/model: REFRACTOR RT-6100



## Empowered Refraction Solution new

### Expanding possibilities, enhancing refractions

- » NIDEK offers Empowered Refraction Solution as a new option to empower people involved with eye examination. RT-6100 CB for Windows is optional software for the RT-6100 and TS-610, that enables control using a Windows computer/tablet. This software delivers the comprehensive examination capabilities of the existing control console.

The computer and tablet are not included or sold with RT-6100 CB for Windows.

Control console and Windows computer/tablet cannot be used/connected simultaneously.

Microsoft and Windows are registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.





■ Intelligent Refractor **RT-3100**

**Streamlined refractor with multiple functions**

- » Smooth, quick, silent lens selection
- » R/L independent PD adjustment for improved precision
- » Clear white LED illumination
- » High quality near point card



Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 80 VA  
 Dimensions/mass  
 Refractor head: 355 (W) x 100 (D) x 276 (H) mm / 3.5 kg  
 Control box: 160 (W) x 209 (D) x 165 (H) mm / 1.7 kg  
 Relay box: 194 (W) x 227 (D) x 61 (H) mm / 2.0 kg  
 Product/model: REFRACTOR RT-3100



■ Refractor **RT-600**

**Manual refractor for pursuing minute power change**

- » Smooth and accurate measurement of spherical and cylindrical powers
- » Multiple auxiliary lenses
- » Convergence system for accurate near vision measurement

Dimensions/mass: 338 (W) x 99 (D) x 292 (H) mm / 5 kg  
 Product/model: REFRACTOR RT-600

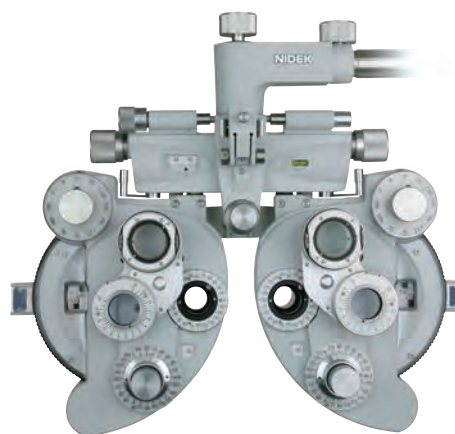


■ Refractor **SLY-100**

**Accurate measurement with simple and comfortable operation**

- » Multiple auxiliary lenses
- » High-quality coated lenses

Dimensions/mass: 335 (W) x 90 (D) x 320 (H) mm / 4.5 kg  
 Product/model: Vision Tester SLY-100





## ■ Refraction Workstation COS-6100/3100

### Complete performance packages

- » Optimized combinations
- » Motorized table with safety mechanism
- » Proven durable construction
- » Customizable optional accessories
  - Side table for space saving chart and lensmeter
  - Two-unit mounting tray for objective device and slit lamp

Power supply: 100 to 120 V AC / 220 to 240 V AC, 50/60 Hz  
 Power consumption: 600 VA (max, including RT and other optometry devices)  
 Dimensions/mass:  
 COS-6100 with side table and two-unit mounting tray: 204.6 kg  
 COS-6100: 127.3 kg  
 Product/model: System Table ST-6100  
                   REFRACTOR RT-6100  
                   REFRACTOR RT-3100

Photo: COS-6100 with side table and two-unit mounting tray  
 RT-6100 Intelligent Refractor  
 OPD-Scan III VS Refractive Power / Corneal Analyzer  
 SL-1800 Slit Lamp  
 LM-1800PD Auto Lensmeter  
 SSC-370 Space Saving Chart  
 ST-6100 System Table

Photo: COS-6100  
 RT-6100 Intelligent Refractor  
 ARK-1s Auto Ref/Keratometer  
 ST-6100 System Table

These configurations are just examples.

Dimensions/mass:  
 COS-6100 with side table and two-unit mounting tray: 1,540 (W) x 1,553 (D) x 1,440 to 1,930 (H) mm / 170 kg  
 COS-6100: 990 (W) x 733 (D) x 1,440 to 1,930 (H) mm / 120 kg



## ■ Refraction Workstation COS-610/310

### Workspace simplified

- » Compact design to fit any facility
- » Easy-to-transport, wheeled table
- » Safety one-touch lock arm
- » Drawers for trial lenses

Power supply: 120 V AC / 230 V AC, 50/60 Hz  
 Power consumption: 500 VA (max, including RT and other optometry devices)  
 Dimensions/mass:  
 COS-610: 714 (W) x 510 (D) x 1,307 to 1,507 (H) mm / 67.3 kg  
 Product/model: System Table ST-600  
                   REFRACTOR RT-6100  
                   REFRACTOR RT-3100

Photo: COS-610  
 RT-6100 Intelligent Refractor  
 ST-600 System Table

Photo: COS-310  
 RT-3100 Intelligent Refractor  
 ST-600 System Table



### ■ Tabletop Refraction System TS-610

#### Advanced space-saving refraction for efficient workflow

- » Selectable user interface
  - User-friendly control console
  - Empowered Refraction Solution (page 8) **new**
- » Streamlined refractor head
- » Reliable chart unit
- » Seamless data connectivity
- » Flexible measurement options

Power supply: 100 to 240 V AC, 50/60 Hz

Power consumption: 200 VA

Dimensions/mass:

The refractor head vertical motion unit is at the bottom.

446 (W) x 520 (D) x 763 (H) mm / 34.3 kg

The refractor head vertical motion unit is at the top.

446 (W) x 487 (D) x 907 (H) mm / 34.3 kg

Product/model: REFRACTOR RT-6100



### ■ Tabletop Refraction System TS-310

#### Simple and reliable refraction in an attractive design

- » Operation-rich control box
- » Sophisticated refractor head
- » Reliable chart unit
- » Flexible measurement options
- » Easy installation

Power supply 100 to 240 V AC, 50/60 Hz

Power consumption: 130 VA

Dimensions/mass:

The refractor head vertical motion unit is at the bottom.

446 (W) x 519 (D) x 763 (H) mm / 32.0 kg

The refractor head vertical motion unit is at the top.

446 (W) x 487 (D) x 907 (H) mm / 32.0 kg

Product/model: Tabletop Refraction System TS-310





Photo: LM-1800PD

### ■ Auto Lensmeter **LM-1800PD/1800P**

#### **Multi-valued auto lensmeter for highly accurate measurements**

- » Hartmann sensor with 108 multiple measurement points
- » Unique lens table expanding measurement range
- » Distortion check
- » Green light / UV transmittance measurement

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 60 VA  
 Dimensions/mass: 220 (W) x 252 (D) x 430 (H) mm / 5.0 kg  
 Product/model: Auto Lensmeter LM-1800P/1800PD



Photo: LM-7P

### ■ Auto Lensmeter **LM-7P/7**

#### **A standard auto lensmeter with dependable functions and a beauty of its own**

- » Hartmann sensor with 108 measurement points
- » Automatic lens type detection
- » Scale mode function
- » UV transmittance measurement
- » Full graphic vertical 5.7-inch color LCD with touch screen

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 50 VA  
 Dimensions/mass:  
 200 (W) x 240 (D) x 410 (H) mm / 4.0 kg  
 Product/model: AUTO LENS METER LM-7/LM-7P



### ■ PD Meter **PM-700**

#### **Intuitive design and refine accuracy**

- » More precise hairline setting
- » Stability as standard
- » Long life power
- » Auto PD calculation with one measurement

Power source: AA alkaline battery\* LR6 (x 2)  
 Dimensions/mass: 147 (W) x 235 (D) x 60 (H) mm (excluding forehead arm) / 560 g (excluding batteries and strap)  
 Product/model: PD Meter PM-700  
 Rechargeable Ni-MH batteries are also available.



# Diagnostic Slit Lamp

Visualize ocular details with  
a technologically advanced Slit Lamp



## ■ Slit Lamp SL-2000

**Exceeds your expectations in more ways than you can possibly imagine**

- » Crisp and clear view in near-natural color
  - High resolution optical system
  - LED light source for excellent brightness
  - Exclusive optical lens to reduce uneven lighting and compensate for aberrations
- » Superior experience
  - Remarkably smooth motorized joystick
  - Parts designed with meticulous attention to detail

Power supply:  
100 to 240 V AC, 50/60 Hz  
Power consumption: 75 VA  
Dimensions/mass:  
346 (W) x 433 (D) x 567 (H) mm / 12 kg  
Product/model: SLIT LAMP SL-2000



## ■ Slit Lamp SL-1800

**User-friendly microscope with stereoscopic vision**

- » Converging binocular microscope for stereo vision
- » User-friendly ergonomic design
- » Smooth 3D movement with joystick
- » Variable illumination allowing continuous change
- » Yellow filter for easy observation and evaluation of contact lens fit under fluorescent light

Power supply:  
100 V AC / 120 V AC / 230 V AC / 240 V AC, 50/60 Hz  
Power consumption: 40 VA  
Dimensions/mass:  
500 (W) x 459 (D) x 662 (H) mm / 15.8 kg  
Product/model: SLIT LAMP SL-1800



## ■ Slit Lamp SL-450/250

**Light-weight and robust slit lamp**

- » Converging binocular microscope
- » User-friendly design with smooth operability
- » Tilting mechanism\*

\*Available for the SL-450

Power supply:  
100 V AC / 120 V AC / 220 V AC / 230 V AC, 50/60 Hz  
Power consumption: 45 VA  
Dimensions/mass:  
450 (W) x 410 (D) x 670 (H) mm / 16.5 kg  
Product/model: SLIT LAMP SL-450  
SLIT LAMP SL-250

Photo: SL-450

# Diagnostic Cornea & Cataract

Achieve excellent QOV in  
Cornea & Cataract diagnostics

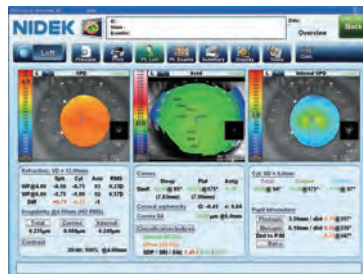
NIDEK Quality of Vision diagnostic system supports clinicians in achieving superior QOV for their patients. The benefits to your practice include space-saving, easy-to-use, ergonomic devices that incorporate innovative technology and increase clinic efficiency.



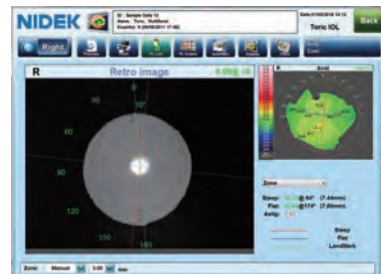
## ■ Refractive Power / Corneal Analyzer **OPD-Scan III**

### Maximizing potential QOV

- » Wavefront aberrometer / Topographer / Auto refractometer / Auto keratometer / Pupillometer and pupillographer
- » Multiple map summaries to suit your practice or clinical requirements
- » Patient view simulation for informed consent
- » Estimation of angle Kappa/ $\alpha$  to enhance outcomes of premium IOL surgery



Overview summary



Toric IOL summary

Power supply: 100 to 240 V AC, 50/60 Hz

Power consumption: 110 VA

Dimensions/mass: 284 (W) x 525 (D) x 533 (H) mm / 23 kg

Product/model: REFRACTIVE POWER / CORNEAL ANALYZER OPD-Scan III

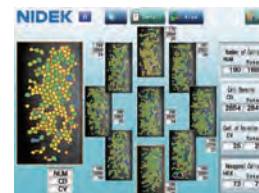


■ Specular Microscope **CEM-530**

**The Gold Standard for paracentral imaging**

- » Paracentral specular microscopy allowing detailed evaluation of endothelium
- » Comprehensive analysis with color-coding
- » Combined auto and manual analysis for more accurate cell detection
- » Optional CEM Viewer for NAVIS-EX for follow-up

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 100 VA  
 Dimensions/mass: 291 (W) x 495 (D) x 457 (H) mm / 20 kg  
 Product/model: SPECULAR MICROSCOPE CEM-530



Paracentral image



Follow-up on CEM Viewer



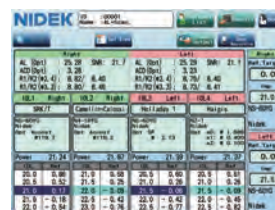
■ Optical Biometer **AL-Scan**

**Effortless measurement of 6 clinical parameters in 10 seconds**

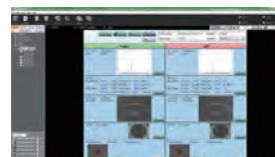
- » Axial length, kerato (keratometry), anterior chamber depth, central corneal thickness, white-to-white distance, pupil size
- » ACD observation with Scheimpflug imaging
- » The only unit to incorporate an optional built-in ultrasound biometer\*
- » Optional AL-Scan Viewer for NAVIS-EX for surgeon-specific IOL optimization

\*As of September 2021.

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 100 VA  
 Dimensions/mass: 283 (W) x 504 (D) x 457 (H) mm / 21 kg  
 Product/model: OPTICAL BIOMETER AL-Scan



IOL power calculation on AL-Scan



Confirmation of measured values on the AL-Scan Viewer



■ Echoscanner **US-4000/500**

**Versatility for your practice**

- » B-scan\*, biometer, pachymeter
- » Compact unit with simple mechanism
- » USB and LAN interfaces for easy data storage

\*Available for the US-4000.

Power supply: 100 to 120 V AC / 230 V AC, 50/60 Hz  
 Power consumption: 70 VA  
 Dimensions/mass: 300 (W) x 285 (D) x 330 (H) mm / 8.5 kg  
 Product/model: ECHOSCAN US-4000  
 ECHOSCAN US-500



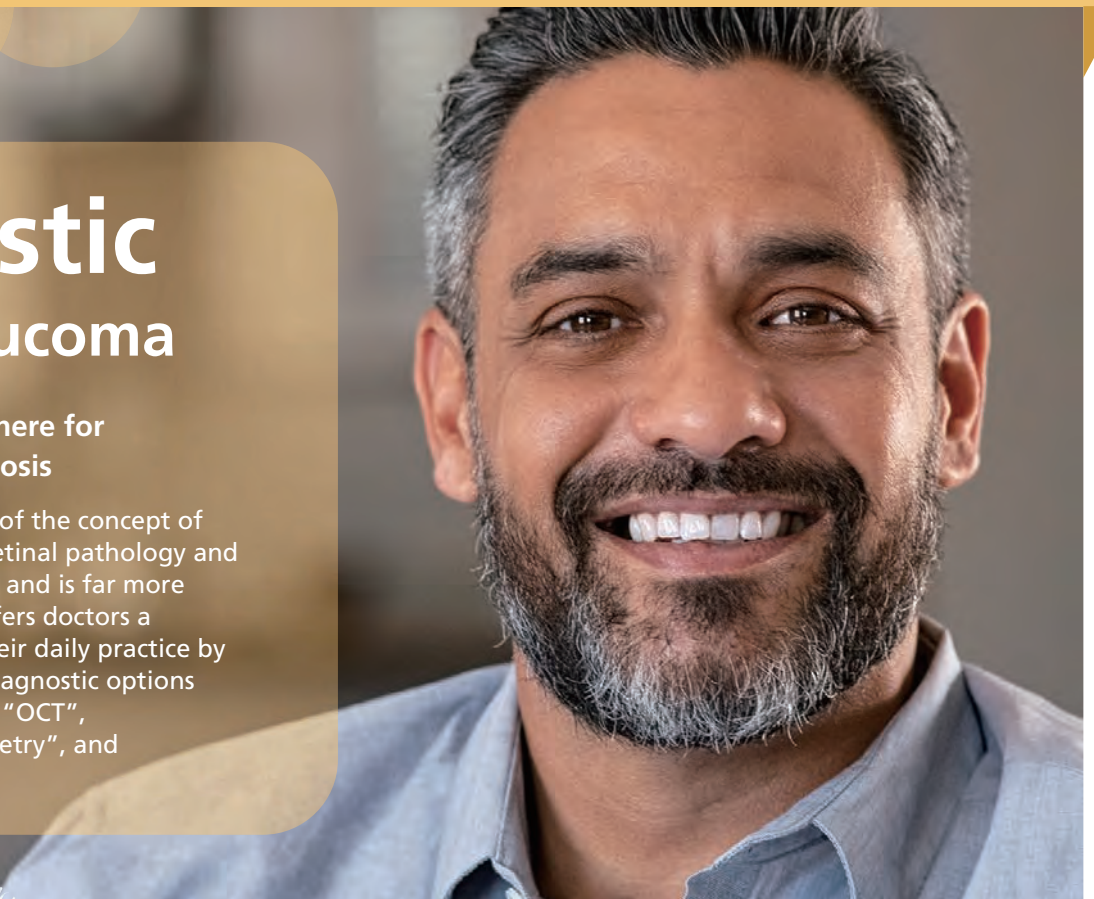
Cross vector mode

Photo: US-4000

# Diagnostic Retina & Glaucoma

The multimodality era is here for  
Retina & Glaucoma diagnosis

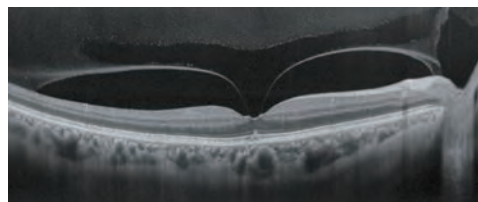
With the recent introduction of the concept of multimodality, diagnosis of retinal pathology and glaucoma has been improved and is far more accurate than ever. NIDEK offers doctors a comprehensive solution to their daily practice by providing a wide variety of diagnostic options including "Fundus Cameras", "OCT", "Angiography", "Microperimetry", and "Automated Gonioscopy".



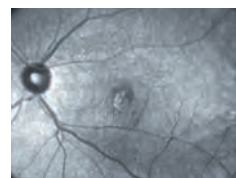
## Optical Coherence Tomography **RS-3000 Advance 2**

Providing a comprehensive solution for retina and glaucoma analysis

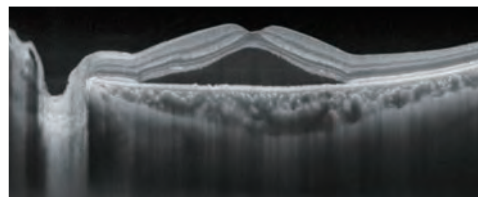
- » Accurate image capture with a SLO-based eye tracer
- » Selectable OCT sensitivity that allows acquisition of B-scan images through media opacities
- » Tracing HD plus for accurate averaging of up to 120 images
- » Glaucoma analysis with wide-area normative database 9 x 9 mm



B-scan: Retinal mode



SLO image



B-scan: Choroidal mode\*

\*Image courtesy of Hokkaido University Hospital

Power supply: 100 V AC / 120 V AC / 230 V AC, 50/60 Hz

Power consumption: 300 VA

Dimensions/mass: 380 (W) x 524 (D) x 515 (H) mm / 34 kg

Product/model: Optical Coherence Tomography RS-3000 Advance





## ■ Scanning Laser Ophthalmoscope **Mirante**

### The ultimate multimodal imaging platform

- » For the SLO/OCT model
  - Color / FA / ICG / Blue-FAF / Green-FAF / Retro mode
  - OCT / OCT-Angiography\*1
- » For the SLO model
  - Color / FA\*1 / ICG\*1 / Blue-FAF / Green-FAF / Retro mode
- » 163° ultra wide field\*2 / 89° standard image (central angle of view)
- » Ultra 4K HD image by FlexTrack

\*1 Optional

\*2 Ultra wide field imaging is available with the optional wide-field adapter.

Power supply: 100 to 240 V AC, 50/60 Hz

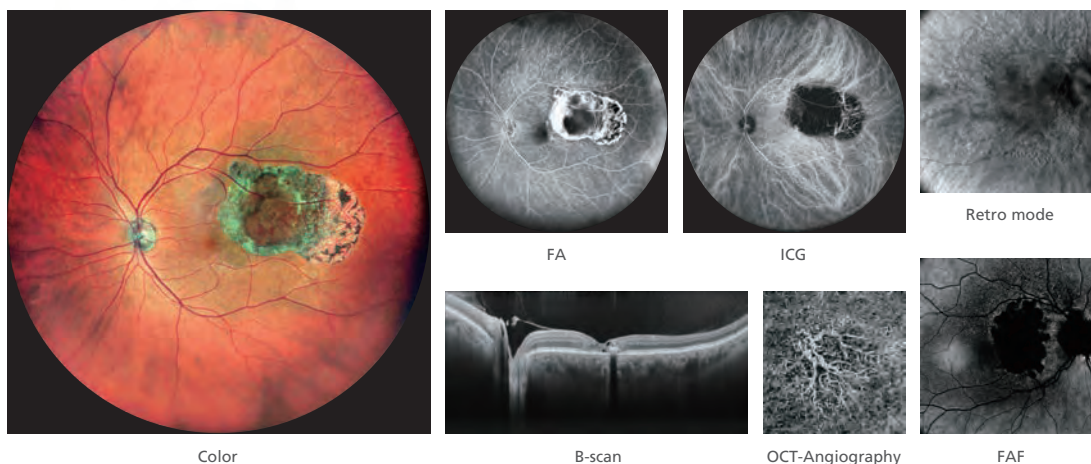
Power consumption: 150 VA (device main body)

Dimensions/mass

SLO/OCT model: 345 (W) x 548 (D) x 527 to 557 (H) mm / 23 kg

SLO model: 345 (W) x 548 (D) x 527 to 557 (H) mm / 22 kg

Product/model: Scanning Laser Ophthalmoscope Mirante

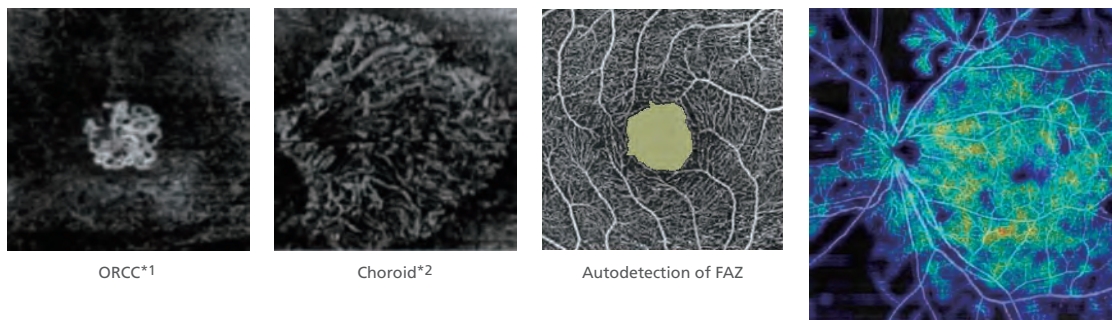


Images courtesy of Luigi Sacco Hospital, University of Milan

## ■ OCT-Angiography option for the Mirante SLO/OCT and RS-3000 Advance 2 **AngioScan**

### Non-invasive visualization of retinal microvasculature with OCT-Angiography

- » Tracing HD plus for accurate image capture by tracking the eye movement on the SLO image
- » Selectable definition by choosing the number of scans per line
- » Up to 12 x 12 mm imaging
- » Quantitative analysis with two density maps on seven slabs (macula) / four slabs (disc)
- » Autodetection of FAZ and shape analysis



\*1 Image courtesy of Prof. Stanislao Rizzo, Careggi University Hospital, University of Florence

\*2 Image courtesy of Dr. Alejandro Villalobos



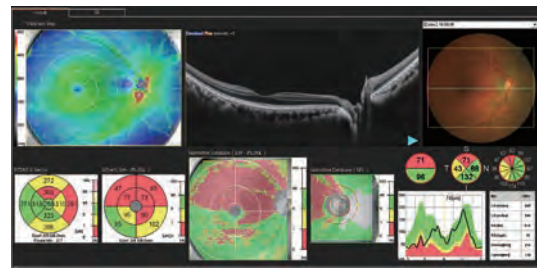
Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 350 VA  
 Dimensions/mass  
 Standard model: 370 (W) x 536 (D) x 602 (H) mm / 38 kg  
 FAF model: 370 (W) x 536 (D) x 602 (H) mm / 39 kg  
 Product/model: Optical Coherence Tomography RS-330

Optical Coherence Tomography / Fundus Camera  
**Retina Scan Duo™ 2** new

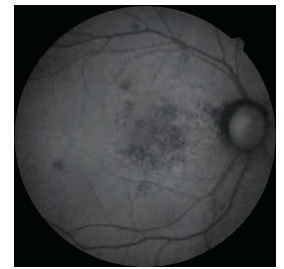
**Next Gen dual mode retinal imaging**

- » Fundus image acquisition with macula and disc capture in one image on OCT
- » Combined diagnosis of macular and disc pathologies
- » Denoising technique with deep learning
- » Quick acquisition of high definition B-scan images from a single-frame image
- » Fundus autofluorescence (FAF)\*

\*Available for the FAF model



Retina map



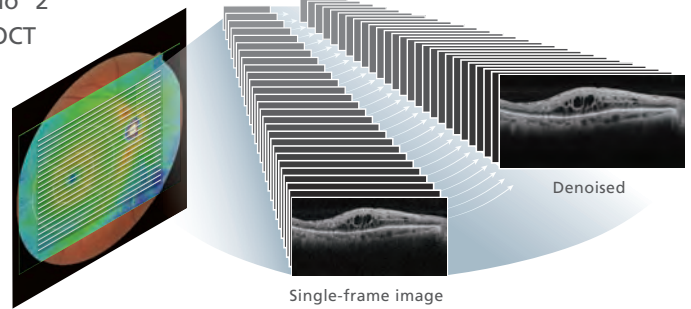
FAF\*

\*Image courtesy of Kariya Toyota General Hospital

Software for the NIDEK OCT series **B-scan Denoising Software**

**Deep learning allows rapid acquisition of high definition B-scan OCT images**

- » Standard software included in the Retina Scan Duo™2
- » Optional software for use with the Mirante SLO/OCT and RS-3000 Advance 2
- » Denoising using deep learning technique
- » High definition images comparable to multiple image averaging
- » Faster acquisition of high definition B-scan images for better workflow and increased patient comfort

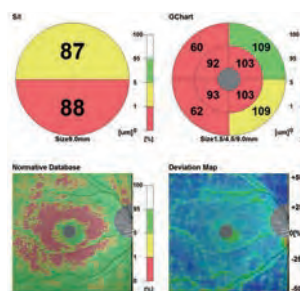
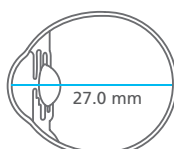


Software for the NIDEK OCT series **Long Axial Length Normative Database**

**Software that compensates for myopic eyes in glaucoma diagnosis**

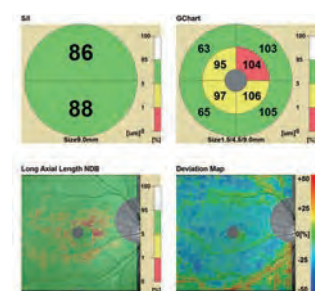
- » Optional software for use with the NIDEK OCT series
- » Based on data from normal eyes (free of ocular pathology) with long axial length
- » Data collected from Asian cases

Sample analysis of a patient with long axial length (27.0 mm)



Normative database

Axial length compensation



Long axial length normative database

■ Microperimeter **MP-3**

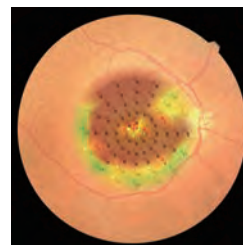
**Measurement of local retinal sensitivity to assess its functionality**



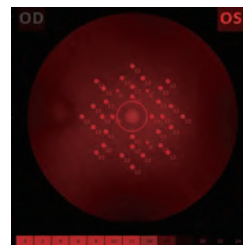
- » Better relationship of structure and function than conventional autoperimetry\*
- » Wide measurement range
- » Auto tracking and auto alignment for accurate follow up
- » Feedback exam for visual rehabilitation
- » Added scotopic microperimetry function in the MP-3 type S

\* Evaluating the Usefulness of MP-3 Microperimetry in Glaucoma Patients. Matsuura M, et al. American Journal of Ophthalmology. doi.org/10.1016/j.ajo.2017.12.002

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 160 VA  
 Dimensions/mass: 334 (W) x 562 (D) x 560 (H) mm / 36 kg  
 Product/model: Microperimeter MP-3



Microperimetry



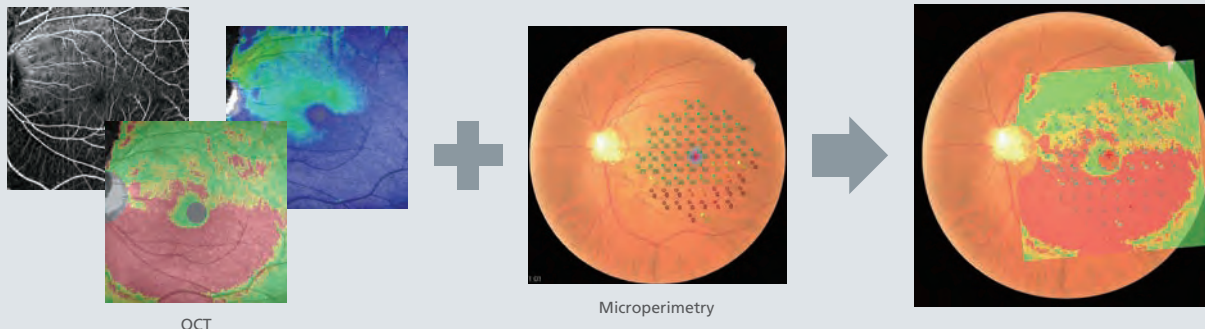
Scotopic microperimetry

Multimodal Imaging with the NIDEK OCT series and MP-3

**Evaluate retinal structure and function simultaneously**

» The NAVIS-EX\* registration function combines, registers, and overlays the OCT image onto microperimetry for one display.

\* NAVIS-EX comes as standard software for the Mirante SLO/OCT, RS-3000 Advance 2, and MP-3.



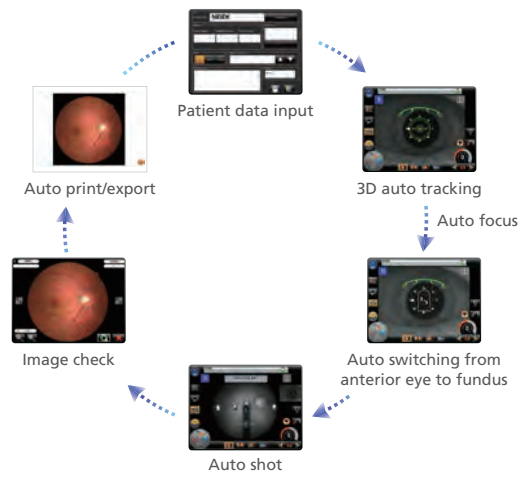


Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 150 VA  
 Dimensions/mass: 316 (W) x 518 (D) x 579 (H) mm / 29 kg  
 Product/model: Non-Mydriatic Auto Fundus Camera AFC-330

### ■ Non-mydriatic Auto Fundus Camera **AFC-330**

#### Five automated functions for enhanced ease-of-use

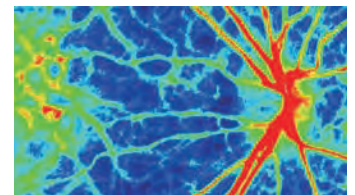
- » 3D auto tracking, auto focus, auto switching from anterior eye to fundus, auto shot, and auto print/export
- » Built-in camera and computer
- » Monitor and indicator for operator assist
- » Navigation of stereo and panorama photography
- » Low flash intensity and quiet shutter sound



### ■ Laser Speckle Flowgraphy **LSFG-RetFlow**

#### Non-invasive, real-time imaging and quantitative assessment of retinochoroidal blood flow

- » Color coded display of blood flow for easy clinical evaluation and analysis
- » 16 different indices to evaluate retinochoroidal circulation
- » Easy operation
- » Follow-up assessment with auto tracking function



Color blood flow image

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 40 VA  
 Dimensions/mass: 359 (W) x 390 (D) x 490 (H) mm / 13 kg  
 Product/model: LASER SPECKLE FLOWGRAPHY LSFG-RetFlow

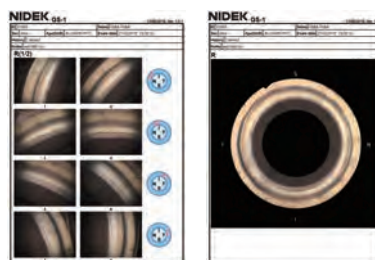


Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 100 VA  
 Dimensions/mass: 280 (W) x 504 (D) x 460 (H) mm / 15 kg  
 Product/model: GONIOSCOPE GS-1

### Gonioscope GS-1

#### Document. Assess. Plan.

- » Instant documentation of the iridocorneal angle in real-color photographs
- » Freeing up time for the clinicians to assess and plan treatment
- » Automated circumferential goniophotography



Report image



Neo-vessels: Baseline\*



Neo-vessels: Progression\*

\*Images courtesy of Assist. Prof. Luis Abegão Pinto, MD, PhD, University of Lisbon, Portugal



Photo: TONOPACHY NT-530P

### Non Contact Tono/Pachymeter TONOPACHY™ NT-530P

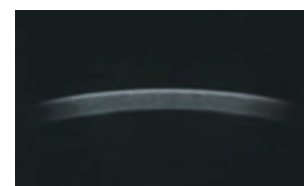
#### Non Contact Tonometer NT-530/510

#### State-of-the-art technology for corrected IOP values

- » Accurate measurement of central corneal thickness with Scheimpflug imaging\*1
- » Calculation of corrected IOP based on central corneal thickness\*2

\*1 Available for the TONOPACHY NT-530P

\*2 Available for the TONOPACHY NT-530P and NT-530



Scheimpflug image

Power supply: 100 to 240 V AC, 50/60 Hz

Power consumption: 100 VA

Dimensions/mass

TONOPACHY NT-530P: 260 (W) x 481 (D) x 474 (H) mm / 20 kg

NT-530/NT-510: 260 (W) x 481 (D) x 457 (H) mm / 19 kg

Product/model: NON CONTACT TONO/PACHYMETER NT-530P

NON CONTACT TONOMETER NT-530

NON CONTACT TONOMETER NT-510



Corrected IOP

# Ophthalmic Laser

## Tailor your laser treatment to suit the patient

NIDEK offers a variety of laser instruments from YAG/SLT lasers to Multicolor laser photocoagulators including single color Green or Yellow lasers. These options allow delivery of any laser therapy. The multiple choices of delivery systems allow efficient tailored treatment sequence throughout the surgical day.



Photo: YC-200 S plus

- Ophthalmic YAG and SLT Laser System **YC-200 S plus**
- Ophthalmic YAG Laser System **YC-200**

### Precision treatments with the YAG/SLT laser

- » Refined YAG laser delivery with lower plasma threshold
- » Unique SLT assist function SLT-NAVI\*
- » Optics that enhance clarity and contrast
- » Precise aiming beam
  - Motorized rotatable aiming beam (YAG mode)
  - Precise edge aiming beam (SLT mode\*)
- » Utility S-switch and remarkably smooth motorized joystick

\*Available for the YC-200 S plus

Power supply: 100 to 240 V AC, 50/60 Hz

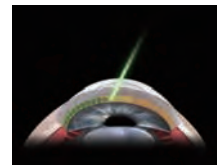
Power consumption: 100 VA

Dimensions/mass

YC-200 S plus: 346 (W) x 422 (D) x 577 (H) mm / 18 kg

YC-200: 346 (W) x 422 (D) x 577 (H) mm / 17 kg

Product/model: Ophthalmic YAG Laser System YC-200



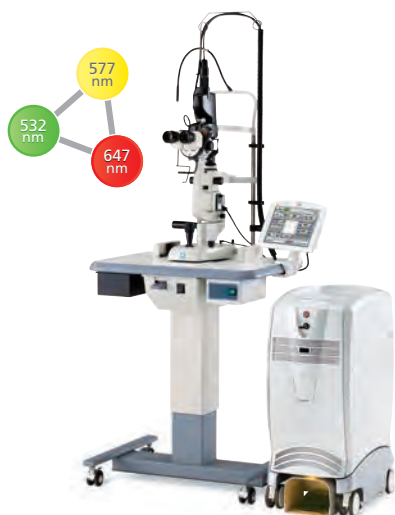


Photo: MC-500 Vixi  
(Type: Scan slit lamp delivery unit)

■ Multicolor Scan Laser Photocoagulator **MC-500 Vixi**  
 ■ Multicolor Laser Photocoagulator **MC-500**

**Multicolor for multiple applications**

- » LPM (Low Power Mode) for minimally invasive photocoagulation\*<sup>1</sup>
- » Multicolor on modular architecture

Three-color selection	● ● ●		
Two-color selection	● ●	● ●	● ●
One-color selection	●	●	●

● Green (532 nm) ● Yellow (577 nm) ● Red (647 nm)

- » 22 preprogrammed scan patterns for varying retinal pathologies\*<sup>2</sup>



- » Auto forward function for automated positioning of the scan pattern\*<sup>2</sup>
- » Wide range of selectable delivery units

\*1 Available for the MC-500 Vixi equipped with the yellow laser  
 \*2 Available for the MC-500 Vixi

Power supply: 115 to 230 V AC, 50/60 Hz  
 Power consumption: 400 VA  
 Dimensions/mass: 300 (W) x 480 (D) x 670 (H) mm / 35 kg  
 Product/model: Multicolor Laser Photocoagulator MC-500



Photo: YLC-500 Vixi  
(Type: Scan slit lamp delivery unit)

■ Yellow Scan Laser Photocoagulator **YLC-500 Vixi**  
 ■ Yellow Laser Photocoagulator **YLC-500**

**A 577 nm yellow laser with multiple scan patterns**

- » LPM\* (Low Power Mode) for minimally invasive photocoagulation
- » The 577 nm yellow laser - the wavelength of choice for lesions close to the macula
- » 22 preprogrammed scan patterns for varying retinal pathologies\*
- » Wide range of selectable delivery units

\*Available for the YLC-500 Vixi

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 250 VA  
 Dimensions/mass  
 YLC-500 Vixi: 276 (W) x 318 (D) x 90 (H) mm / 6.55 kg  
 YLC-500: 237 (W) x 318 (D) x 90 (H) mm / 5.6 kg  
 Product/model: YELLOW LASER PHOTOCOAGULATOR YLC-500



Photo: GYC-500 Vixi  
(Type: Scan slit lamp delivery unit)

■ Green Scan Laser Photocoagulator **GYC-500 Vixi**  
 ■ Green Laser Photocoagulator **GYC-500**

**Standardized state-of-the-art green laser photocoagulator**

- » Lightweight and compact design
- » Endophotocoagulation with the CV-30000 Ophthalmic Surgical System
- » 5.7-inch color LCD with touchscreen control box
- » 22 preprogrammed scan patterns for varying retinal pathologies\*
- » Wide range of selectable delivery units

\*Available for the GYC-500 Vixi

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 250 VA  
 Dimensions/mass  
 GYC-500 Vixi: 276 (W) x 318 (D) x 90 (H) mm / 7.15 kg  
 GYC-500: 237 (W) x 318 (D) x 90 (H) mm / 6.2 kg  
 Product/model: GREEN LASER PHOTOCOAGULATOR GYC-500



# Surgical & IOL

Optimize your surgical outcomes with state-of-the-art devices

NIDEK offers a variety of surgical devices to meet every surgical need. Numerous anterior segment devices and dual surgical devices allow treatments for the anterior and posterior segments. Additionally, we offer hydrophobic soft acrylic intraocular lenses which have been implanted in over 1 million eyes worldwide.



## ■ Ophthalmic Surgical System **Fortas™ CV-30000**

### Cataract and vitreoretinal surgery in a single surgical system

- » Fortas pump, refined peristaltic pump, for quick vacuum rise
- » VIS (Variable Intervals and Strokes) with dual-oscillation for easy nucleus emulsification using less energy
- » APS-Plus (Auto Pulse System-Plus) for optimal control of ultrasound and aspiration pump
- » Bi-Blade™ cutter (27G/25G)
- » Navigation mode to guide the setup procedure
- » Space available for the GYC-500 Green Laser Photocoagulator

Power supply: 115 to 230 V AC, 50/60 Hz  
Power consumption: 650 VA  
Dimensions/mass: 512 (W) x 555 (D) x 1,540 (H) mm / 115 kg  
Product/model: Ophthalmic Surgical System CV-30000

GYC-500 placed  
in the Fortas CV-30000



## ■ Ophthalmic Surgical System **CV-9000/9000R**

### Small yet fully functional cataract surgical device

- » Refined peristaltic pump for quick vacuum rise
- » Nine languages for universal ease of use
- » High-speed cutter for anterior vitrectomy (1,000 cpm)
- » 1.8 mm microincision cataract surgery capability
- » Reusable irrigation and aspiration (I/A) tube\*

\*Available for the CV-9000R

Power supply  
Main body: 100 to 230 V AC, 50/60 Hz  
Stand\*: 115 V AC / 230 V AC, 50/60 Hz  
Power consumption: 240 VA (main body)  
300 VA (including stand\*)

Dimensions/mass  
CV-9000: 310 (W) x 457 (D) x 295 (H) mm / 16 Kg  
CV-9000R: 318 (W) x 457 (D) x 295 (H) mm / 17 Kg  
Stand\*: 433 (W) x 567 (D) x 1,067 (H) mm / 38 Kg  
Product/model: Ophthalmic Surgical System CV-9000  
Ophthalmic Surgical System CV-9000R

\* Stand with motorized pole (optional)

Photo: CV-9000



## ■ Preloaded IOL Injection System **SZ-1/1C**

### True 2.2 mm small incision\*<sup>1</sup>

Injection System - SZ-1/SZ-1C

» Simple two-step operation

Loaded Lens - Aktis SP

» Hydrophobic IOL

» Advanced aspheric optic

» Yellow tinting for natural color perception\*<sup>2</sup>

\*1 The SZ-1/SZ-1C needs only a 2.2 mm incision through the sclerocornea.

\*2 Available for the SZ-1

Loaded Lens

SZ-1: Aktis SP (NS-60YG)

SZ-1C: Aktis SP (NS-60G)

Optic material

SZ-1: Yellow tinted hydrophobic soft acrylic

SZ-1C: Hydrophobic soft acrylic

Haptic material

SZ-1: Yellow tinted hydrophobic soft acrylic

SZ-1C: Hydrophobic soft acrylic

Diopter range: 11.0 to 27.0 D (0.5 D increments)

27.0 to 30.0 D (1.0 D increments)

Product/model: Nex-Load System SP SZ-1

Nex-Load System SP Clear SZ-1C



## ■ Aspheric Single-piece IOL **Aktis SP**

### Minimized risk of post-op complications through enhanced lens design

» Stable lens material with unique double-polymerization

» 360° square edge to reduce PCO

» Anchor wing loop to secure intracapsular fixation

» Blast finishing on the haptic surface reducing adherence to the optic surface

» Aspheric optic side surface to reduce intraocular reflection

» Yellow tinting for natural color perception\*

\*Available for the NS-60YG

Optic material

NS-60YG: Yellow tinted hydrophobic soft acrylic

NS-60G: Hydrophobic soft acrylic

Haptic material

NS-60YG: Yellow tinted hydrophobic soft acrylic

NS-60G: Hydrophobic soft acrylic

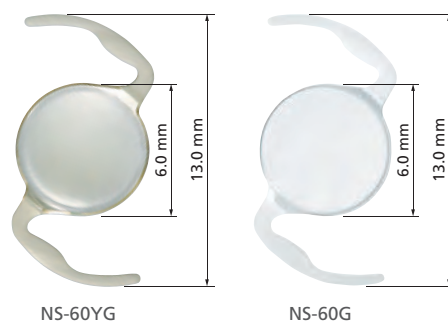
Diopter range: 1.0 to 10.0 D (1.0 D increments)

10.0 to 27.0 D (0.5 D increments)

27.0 to 30.0 D (1.0 D increments)

Product/model: Nex-Acri AA 1P NS-60YG

Nex-Acri 1P NS-60G



NS-60YG

NS-60G



Nex-IJ, Injector for Aktis SP / Nex-Acri™

## ■ Tinted and Aspheric Hydrophobic Acrylic IOL

### Nex-Acri™ AA Aktis

#### Yellow-tinted three-piece aspheric IOL

Optic material: Yellow tinted hydrophobic soft acrylic

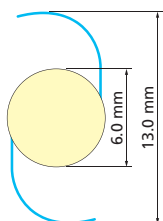
Haptic material: PMMA

Diopter range: 1.0 to 10.0 D (1.0 D increments)

10.0 to 27.0 D (0.5 D increments)

27.0 to 30.0 D (1.0 D increments)

Product/model: Nex-Acri AA N4-18YG



## ■ Hydrophobic Acrylic IOL

### Nex-Acri™

#### Clear three-piece spherical IOL

Optic material: Hydrophobic soft acrylic

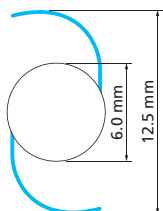
Haptic material: PMMA

Diopter range: 1.0 to 10.0 D (1.0 D increments)

10.0 to 27.0 D (0.5 D increments)

27.0 to 30.0 D (1.0 D increments)

Product/model: Nex-Acri N4-18B



## ■ Preloaded IOL Injection System **NZ-1**

### Push or screw - Operate your way

» Three-piece preloaded IOL

» Neutral spherical aberration

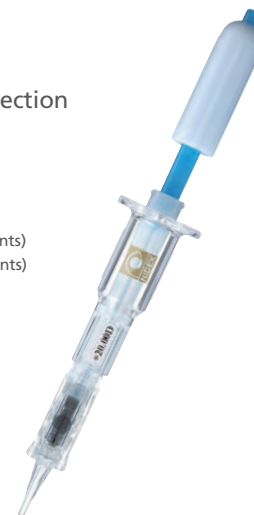
» J-loop design for smooth injection with preloaded injector

Loaded lens: N4-11B

Diopter range: 10.0 to 27.0 D (0.5 D increments)

27.0 to 28.0 D (1.0 D increments)

Product/model: Nex-Load System NZ-1



# Lens Edging

Combination of dynamic ideas and stable performance provides superb Lens Edging

With continuously progressing technologies and innovative ideas, NIDEK responds to the ever changing eyewear market and customers' needs. From desktop models to industrial-size units, you can find the best lens edging system for you from our abundant product portfolio which has the right fit for a variety of installation conditions and requirements.



Power supply: 100 to 120 V AC / 200 to 240 V AC, 50/60 Hz  
Power consumption: 1.5 kVA  
Dimensions/mass: 600 (W) x 496 (D) x 355 (H) mm / 52 kg

## ■ Multifunction Edger **ME-1500**

**Comprehensive technology to deliver expert lens edging**

- » Automatic 3D drilling
- » High base curve processing
- » Multi/mini beveling
- » Step beveling / partial step processing
- » Design cut
- » User-friendly





Photo: LEXCE Trend Type DBT

Power supply: 100 to 120 V AC / 240 V AC, 50/60 Hz

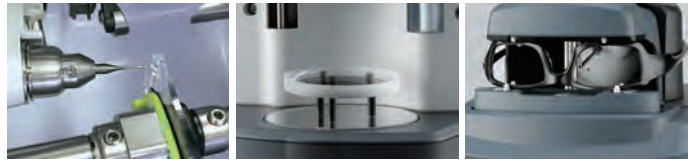
Power consumption: 1.3 kVA

Dimensions/mass Type DBT: 545 (W) x 530 (D) x 460\*2 (H) mm / 40 kg

## Patternless Edger LEXCE Trend8/Trend

### One-stop lens making

- » Exceptional processing unit with integrated drill
- » Several configurations depending on individual needs
- » Intelligent blocker with integrated shape imager
- » Precise tracing for all types of shapes
- » Selectable user interface designed for intuitive operation
- » High base curve lens processing, multi bevel function, and mini step bevel function\*1



\*1 Available for the LEXCE Trend8

\*2 344 mm height for the model without frame tracer



Power supply: 100 to 120 V AC / 230 V AC, 50/60 Hz

Power consumption: 1.3 kVA

Dimensions/mass: 528 (W) x 493 (D) x 345 (H) mm / 41 kg

## Patternless Edger LE-1200

### Reliable standard edger offering faster processing with high luster finish

- » Shorter cycle time
- » Mini bevel edging mode
- » Built-in high-wrap frame tracer
- » Grooving and safety beveling
- » Chuck pressure stabilizer



Power supply: 100 to 120 V AC / 230 V AC, 50/60 Hz

Power consumption: 1.0 kVA (100 to 120 V AC), 1.3 kVA (230 V AC)

Dimensions/mass: 543 (W) x 490 (D) x 345 (H) mm / 33 kg

## Edging Station LE-800

### Easy to operate, all-in-one capability

- » Built-in intelligent blocker
- » Precise shape recognition
- » Consistent, beautiful finishing
- » Well-organized user functions
- » Custom-designed frame tracer (optional)





Photo: SE-9090 Supra

■ System Edger **SE-9090 Supra / Supra L**

**Advanced industrial edger with dual spindle system for high volume production**

- » Simultaneous dual-surface lens measurement
- » Faster grinding with dual spindle system
- » High quality automatic polish safety beveling
- » User-friendly 10.4-inch SVGA color LCD touch panel

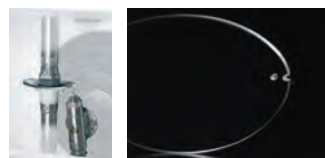
Power supply: 200 to 250 V AC, 50/60 Hz  
 Power consumption: 2.5 kVA  
 Dimensions/mass: 600 (W) x 517 (D) x 611 (H) mm / 118 kg



■ Auto Drilling Unit **AHM-1000 Supra**

**Automatic 3D hole drilling and grooving for the SE-9090 Supra series**

- » Automatic 3D hole drilling according to the spherical surface curve of the lens
- » Remarkable grooving with tilt function for rimless jobs
- » 10.4-inch LCD touch panel for easy operation



Power supply: 200 to 240 V AC, 50/60 Hz  
 Power consumption: 300 VA (excluding the pump and tank)  
 420 VA (including the pump and tank)  
 Dimensions/mass: 440 (W) x 520 (D) x 611 (H) mm / 64 kg

Various configurations are available according to each lab's specific needs.



Photo: AES-2200 (RHU-2200 + two units of SE-9090 Supra)

## Auto Edging System **AES-2200**

### Full automation edging system with double arm mechanism

AES-2200: two units of SE-9090 series with RHU-2200 robotic handling unit

- » High speed processing
- » Double arm mechanism
- » Easy setup of full automation

Power supply: 200 to 250 V AC, 50/60 Hz  
 Power consumption: 5.3 kVA  
 Dimensions/mass: 2,036 (W) x 1,052 (D) x 1,714 (H) mm / 431 kg



Photo  
 Left: AES-1000CB (RHU-1000CB + SE-9090 Supra)  
 Right: AES-1000S (RHU-1000S + SE-9090 Supra)

## Auto Edging System **AES-1000 Series**

### High speed system edger with two types of conveyance system

AES-1000: SE-9090 series with RHU-1000 robotic handling unit

- » High speed conveyance
- » High base curve lens processing
- » Easy operation and maintenance

Power supply: 200 to 250 V AC, 50/60 Hz  
 Power consumption: 3.1 kVA  
 Dimensions/mass  
 AES-1000S: 800 (W) x 1,185 (D) x 1,683 (H) mm / 338 kg  
 AES-1000CB: 1,207 (W) x 1,128 (D) x 1,683 (H) mm / 303 kg



**Satellite Tracer LT-1200**

**Multiple high-wrap frame tracer with LCD color touch screen for laboratory**

- » Automatic 3D binocular tracing
- » Composite tracing
- » LCD color touch screen
- » Multifunction lab and web tracer
- » Advanced shape editor function

Power supply: 100 to 120 V AC / 230 V AC, 50/60 Hz  
 Power consumption: 70 VA  
 Dimensions/mass: 320 (W) x 320 (D) x 480 (H) mm / 14 kg



**Satellite Tracer LT-980**

**High measurement accuracy and low measurement pressure tracer**

- » Automatic 3D binocular tracing
- » Variable fulcrum stylus
- » One-touch demo lens holder
- » Built-in accessory storage space
- » Integrated debris protection

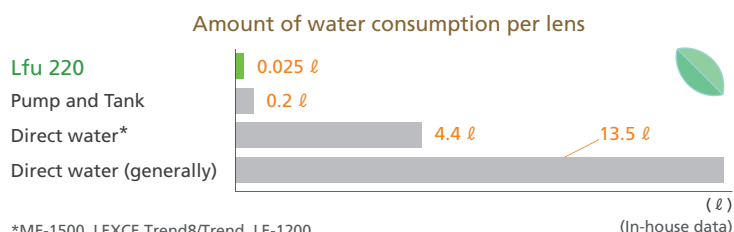
Power supply: 100 to 120 V AC / 230 V AC, 50/60 Hz  
 Power consumption: 70 VA  
 Dimensions/mass: 315 (W) x 300 (D) x 155 (H) mm / 7 kg



**Lens Dust Filtration Unit Lfu 220**

**Hybrid filtration system**

- » Hybrid system
- » Easy and comfortable disposal of processing waste
- » Water conservation
- » Water temperature stability



\*ME-1500, LEXCE Trend8/Trend, LE-1200

Power supply: 100 to 120 V AC / 230 V AC, 50/60 Hz  
 Power consumption: 400 VA  
 Dimensions/mass: 444 (W) x 357 (D) x 464 (H) mm / 24 kg

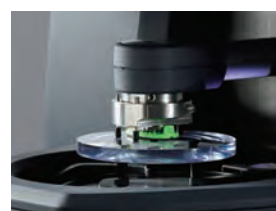


**Intelligent Blocker ICE-1500**

**Born from the pursuit of precision - A masterpiece in blocking**

- » Automatic lens measurement and blocking
- » Lens clamp with multifunction mechanism
- » Shape imager measurement
- » High resolution, multicolor LCD touch panel
- » Easy-design functionality with stylus pen
- » High-wrap curve frame tracer

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 110 VA  
 Dimensions/mass: 325 (W) x 510 (D) x 345 (H) mm / 21 kg



**Intelligent Blocker ICE-1**

**Multifunctional blocker, with the pursuit of user-friendliness**

- » Sensible mechanical design
- » One touch blocking
- » Flexible lens stage (optional)
- » Data management function
- » Shape imager function
- » Hole & design edit function

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 60 VA  
 Dimensions/mass: 225 (W) x 411 (D) x 439 (H) mm / 7.5 kg



**Centering Device CE-9**

**Compact manual blocker**

- » Long-life LED
- » Light control for optimum visibility
- » Compact and stylish design

Power supply: 100 to 240 V AC, 50/60 Hz  
 Power consumption: 2.5 W  
 Dimensions/mass: 113 (W) x 155 (D) x 214 (H) mm / 1.7 kg



**Lens Edger Deodorizer LED-200 Plus**

**Advanced performance deodorization**

- » Slim and compact design
- » Power saving function to automatically start and stop with lens edger operation
- » High-performance deodorization
- » Simple cartridge replacement

Power supply: 115 V AC / 230 V AC, 50/60 Hz  
 Power consumption: 70 VA  
 Dimensions/mass: 399 (W) x 91 (D) x 458 (H) mm / 9.7 kg



Brochure and listed features of the products are intended for non-US practitioners.  
The availability of the products differs from country to country depending on the status of regulatory approval in each country.  
Specifications may vary depending on circumstances in each country.  
Specifications and design are subject to change without notice.



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