



Product Guide






A Variety of Products for Comprehensive Solutions

Based on our long history of R&D, NIDEK has created a variety of products utilizing our advanced technology. A wide range of products provides solutions to your diverse needs at all stages of eye care.




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technology.

2010

Visual Prosthesis

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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.



Refractive Power / Corneal Analyzer

OPD-Scan III

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 / Simulation Report / Eye Diagram Image Report
- » Wide range of display patterns
- » Superior examination with NIDEK Refractor



Display of Eye Diagram Image Report



Basic Information Report

Simulation Report

Power supply: AC 100 to 240 V, 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
- » Gentle tonometry with APC (Auto Puff Control)
- » Accommodation measurement and opacity assessment

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



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

Power supply: AC 100 to 240 V, 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

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

Photo: ARK-1s



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

User friendly hand-held unit for easy portability

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

Power supply: AC 100 to 240 V, 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

Photo: HandyRef-K

Non Contact Tono/Pachymeter **TONOPACHY™ NT-530P**, Non Contact Tonometer **NT-530 / NT-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
- » Gentle tonometry with APC (Auto Puff Control)
- » Visual observation of angle image*1

*1 Available for TONOPACHY NT-530P.
 *2 Available for TONOPACHY NT-530P and NT-530

Power supply: AC 100 to 240 V, 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

Photo: TONOPACHY NT-530P

Optometric Workstation COS-5100

Efficient and comfortable work space for practitioner and patients

- » An advanced, space saving optometric workstation incorporating a refractor, auto ref/keratometer, slit lamp, space saving chart, lensmeter, etc.
- » Various system configurations to fit each the clinician's needs

Power supply: AC 100 to 240 V, 50 / 60 Hz
 Power consumption: 600 VA (including RT and other optometry equipment)
 Dimensions / Mass: 1,080 (W) x 1,542 (D) x 1,360 to 1,850 (H) mm / 160 kg
 Product / Model: SYSTEM TABLE ST-5100

Photo: RT-5100 Intelligent Refractor
 TONOREF III Auto Ref/Kerato/Tono/Pachymeter
 LM-1800PD Auto Lensmeter
 SSC-370 Space Saving Chart
 ST-5100 System Table
 * This configuration is just example.



Intelligent Refractor RT-5100

Ergonomically designed refractor with open-ended functionality

- » Smooth, rapid and silent lens change
- » Easy programming and on-screen assist function
- » Clear vision range check
- » Night mode

Power supply: AC 100 to 240 V, 50 / 60 Hz
 Power consumption: 80 VA
 Dimensions / Mass

Refractor head: 405 (W) x 102 (D) x 276 (H) mm / 3.5 kg
 Control box : 220 (W) x 206 (D) x 200 (H) mm / 1.9 kg
 Relay box : 194 (W) x 227 (D) x 72 (H) mm / 2.2 kg
 Printer : 102 (W) x 86 (D) x 121 (H) mm / 0.3 kg

Product / Model: Refractor RT-5100



Intelligent Refractor RT-3100

Streamlined refractor with multiple functions

- » Smooth, rapid and, silent lens selection
- » R/L independent PD adjustment for improved precision
- » Clear white LED illumination

Power supply: AC 100 to 240 V, 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 / 5.0 kg
 Product / Model: Refractor RT-600



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.



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

Versatile system chart suitable for every need

- » Polarized charts for binocular vision test*
- » Selectable working distance
- » Contrast test
- » Center display function

* Available for the SC-1600 ^(Pole)

Power supply: AC 100 to 240 V, 50 / 60 Hz
 Power consumption: 100 VA
 Dimensions / Mass: 520 (W) x 47 (D) x 455 (H) mm / 5.0 kg
 Product / Model: SYSTEM CHART SC-1600



Space Saving Chart **SSC-370**

Space saving system chart as low as 0.9 m

- » Combined with the optometry system
- » Night mode

Power supply: AC 100 to 240 V, 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-770**

Brighter and clearer chart display with white LED

- » Long-life for improved cost efficiency
- » Optical zoom for variable installation distance
- » Advanced design

Power supply: AC 100 to 240 V, 50 / 60 Hz
 Power consumption: 60 VA
 Dimensions / Mass
 Main body : 177 (W) x 278 (D) x 192 (H) mm / 3.5 kg
 Remote control: 66 (W) x 184 (D) x 21 (H) mm / 120 g
 Product / Model: CHART PROJECTOR CP-770



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

Multi-valued auto lensmeter for highly accurate measurements

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



reddot design award
winner 2011

* LM-1800PD won the "red dot design award 2011".

Power supply: AC 100 to 240 V, 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-1800PD

Auto Lensmeter **LM-600PD** ^(UV) / 600P ^(UV) / 600 ^(UV)

Fully featured auto lensmeter for simple and rapid measurement

- » Hartmann sensor with 108 multiple measurement points
- » UV transmittance measurement
- » Automatic lens type detection

Power supply: AC 100 to 240 V, 50 / 60 Hz
 Power consumption: 40 VA
 Dimensions / Mass
 LM-600PD ^(UV): 194 (W) x 210 (D) x 408 (H) mm / 4.0 kg
 LM-600P ^(UV): 194 (W) x 210 (D) x 408 (H) mm / 3.9 kg
 LM-600 ^(UV): 194 (W) x 210 (D) x 408 (H) mm / 3.6 kg
 Product / Model: Auto Lensmeter LM-600/LM-600P/LM-600PD



Photo: LM-600P ^(UV)

Auto Lensmeter **LM-500**

Compact design entry model auto lensmeter

- » Hartmann sensor with 108 multiple measurement points
- » 3.5-inch color and full graphic LCD

Power supply: AC 100 to 240 V, 50 / 60 Hz
 Power consumption: 40 VA
 Dimensions / Mass: 180 (W) x 185 (D) x 366 (H) mm / 3.5 kg
 Product / Model: Auto Lensmeter LM-500



Diagnostic Cornea & Cataract

Achieve excellent QOV in **Cataract & Refractive** 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.



Slit Lamp **SL-2000** new

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
 - Part design to the smallest detail

Power supply: AC 100 to 240 V, 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 3-D movement with joystick
- » Variable illumination allowing continuous change
- » Yellow filter for easy observation and evaluation of contact lens fit under fluorescent light

Power supply: AC 100 to 120, 230 to 240 V, 50 / 60 Hz
Power consumption: 40 VA
Dimensions / Mass: 500 (W) x 430 (D) x 662 (H) mm / 15.8 kg
Product / Model: SLIT LAMP SL-1800

Diagnostic Cornea & Cataract

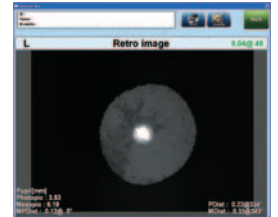
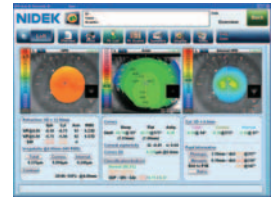


Refractive Power / Corneal Analyzer **OPD-Scan III**

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
- » Angle Kappa / α information to maximize the outcome of premium IOL surgery

Power supply: AC 100 to 240 V, 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

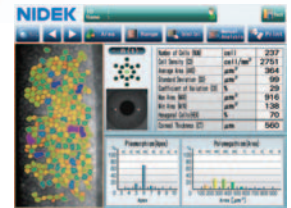
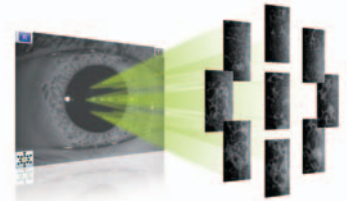


Specular Microscope **CEM-530**

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: AC 100 to 240 V, 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



Optical Biometer **AL-Scan**

Effortlessly measure 6 clinical parameters in 10 seconds

- » Axial length / Kerato (Keratometry) / Anterior chamber depth / Centralcorneal thickness / White-to-white distance / Pupil size
- » ACD observation with Scheimpflug imaging
- » The only unit to incorporate an optional built-in ultrasound*
- » Optional AL-Scan Viewer for NAVIS-EX for surgeon-specific IOL optimization

*As of April 2017.

Power supply: AC 100 to 240 V, 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



reddot design award
 winner 2012



Photo: US-4000

Echoscanner **US-4000 / US-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.

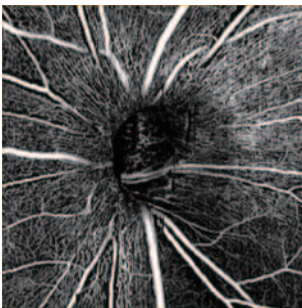
Power supply: AC 100 to 120, 230 V, 50 / 60 Hz
 Power consumption: 70 VA
 Dimensions / Mass: 300 (W) x 285 (D) x 330 (H) mm / 8.5 kg
 Product / Model: ECHOSCAN US-4000
 ECHOSCAN US-500

Diagnostic Retina & Glaucoma

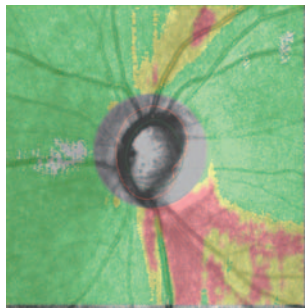
The multi-modality era is here for **Retina & Glaucoma** diagnosis

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 Camera", "OCT", "Angiography" and "Microperimetry", which can be managed with our NAVIS-EX software.

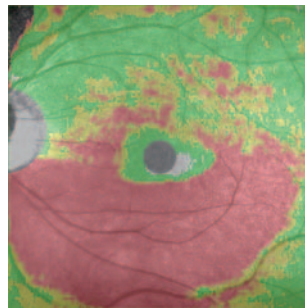
Glaucoma



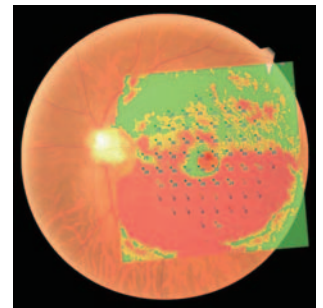
OCT-Angiography



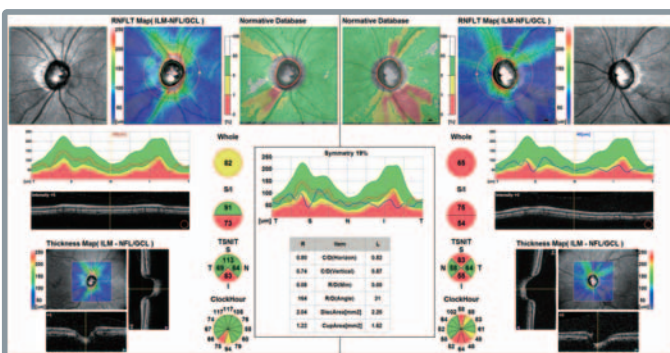
Disc Normative Database



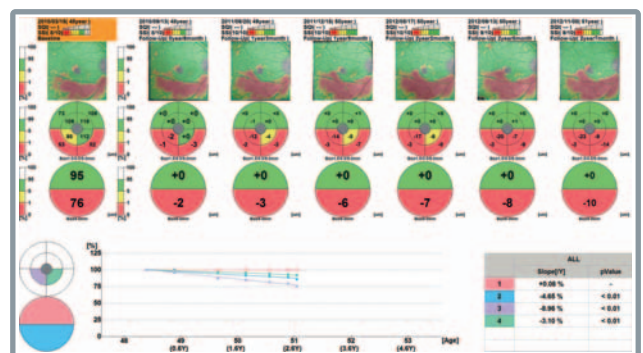
Macula Normative Database



Macula Normative Database + Microperimetry



Disc Map

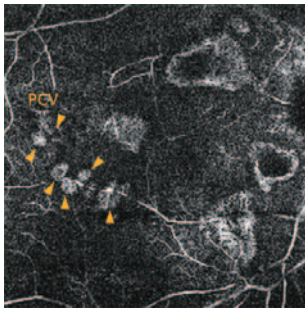


Glaucoma Progression

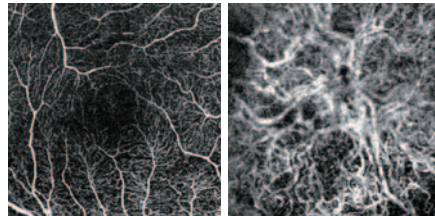
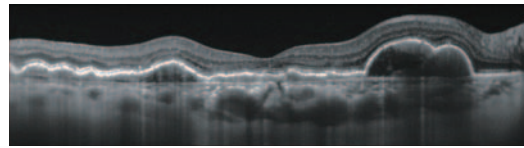
Diagnostic Retina & Glaucoma

Clinical Case

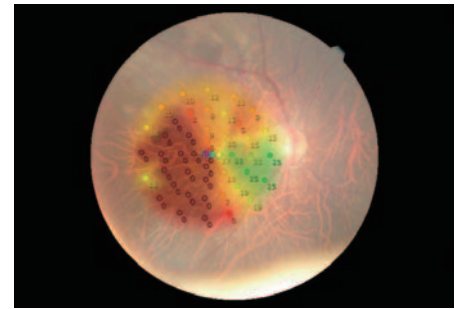
PCV (Polypoidal Choroidal Vasculopathy)



En face

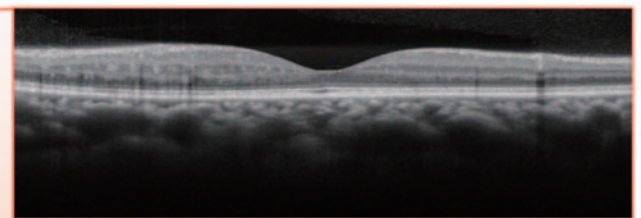
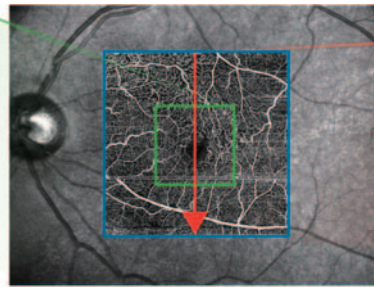
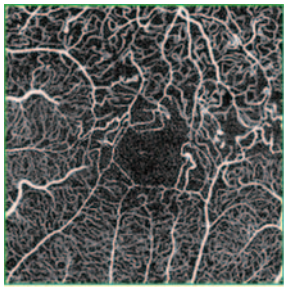


B-Scan and OCT-Angiography



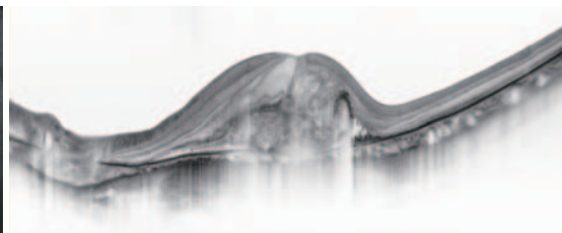
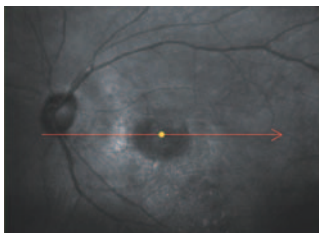
Microperimetry

BRVO (Branch Retinal Vein Occlusion)

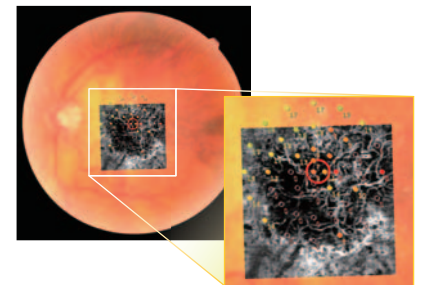


OCT-Angiography, SLO and B-Scan

AMD (Age-related Macular Degeneration)

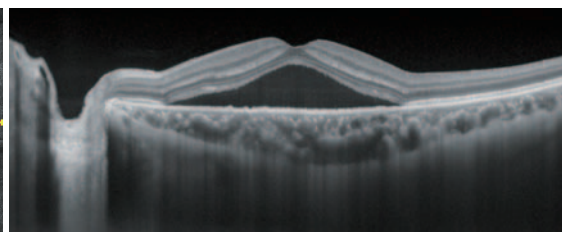
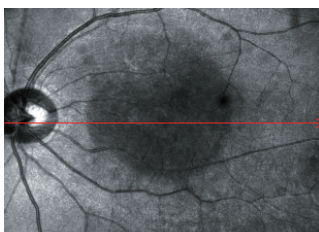


SLO and B-Scan

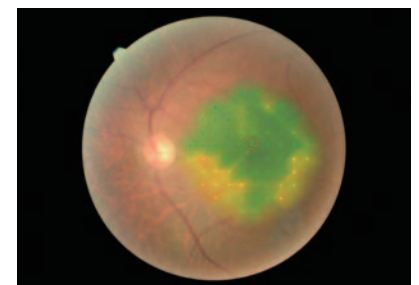


OCT-Angiography + Microperimetry

CSC (Central Serous Chorioretinopathy)



SLO and B-Scan



Microperimetry

Images courtesy of Chiba University Hospital / Hokkaido University Hospital / Kyoto University / Prof. S. Rizzo, MD and Dr. D. Bacherini, MD, University of Florence, Italy

Image
Gallery

Visit our website to see additional images taken by doctors using our products.
<http://www.nidek-intl.com/education/imagegallery/>





Photo: RS-3000 Advance

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

Power consumption: 300 VA

Dimensions / Mass

RS-3000 Advance: 380 (W) x 524 (D) x 515 (H) mm / 34 kg

RS-3000 Lite: 380 (W) x 524 (D) x 515 (H) mm / 33 kg

Product / Model: Optical Coherence Tomography RS-3000 Advance

Optical Coherence Tomography RS-3000 Lite

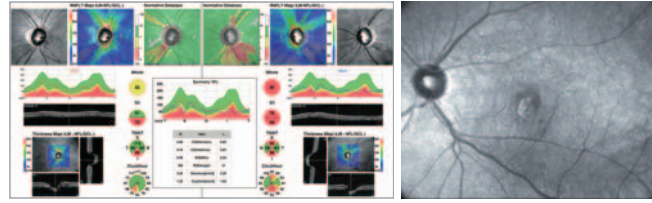
Optical Coherence Tomography **RS-3000 Advance / Lite**

OCT with SLO tracing captures high definition images of vitreous, retinal and choroidal pathology

- » Wide area scan 12 x 9 mm*1 / Wide area normative database 9 x 9 mm
- » Torsion Eye Tracer for accurate image capture by correcting ocular cyclotorsion and fundus tilt*1
- » Tracing HD for accurate averaging of up to 120 images*1
- » Selectable OCT sensitivity for image capture with higher definition or at high speed
- » Real time SLO image*1 / OCT phase fundus for fundus surface imaging*2

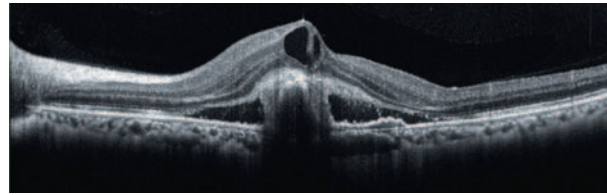
*1 Available for the RS-3000 Advance

*2 Available for the RS-3000 Lite



Analysis image

SLO image



B-scan image

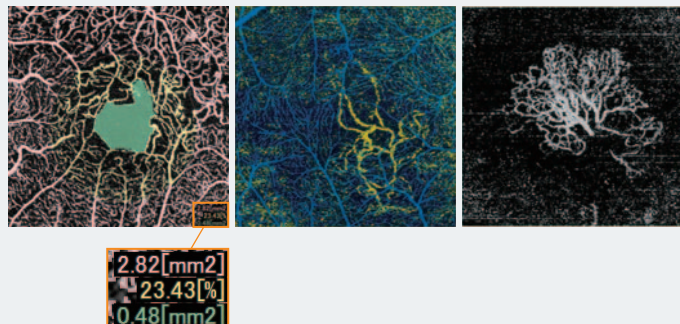
OCT-Angiography Software for RS-3000 Advance **AngioScan**

Non-invasive visualization of retinal microvasculature with OCT-Angiography

- » Tracing HD 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 9 mm auto panorama imaging
- » Adjustable scan size ranging from 3 mm up to 9 mm



Panorama image



Images courtesy of Eric Souied, MD, PhD, Centre Hospitalier Intercommunal de Creteil

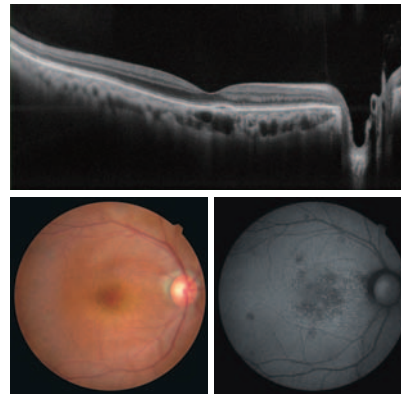
Diagnostic Retina & Glaucoma

Optical Coherence Tomography **Retina Scan Duo™**

High definition OCT & color fundus imaging in a compact system

- » Easy operation with 3-D auto tracking, auto shot, and user friendly interface
- » Wide area scan 12 x 9 mm / Wide area normative database 9 x 9 mm
- » Multiple OCT scan patterns
- » 12-megapixel color fundus camera
- » Fundus autofluorescence (FAF)*

* Available for the FAF model

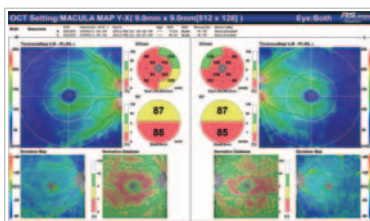


Power supply: AC 100 to 240 V, 50 / 60 Hz
 Power consumption: 350 VA
 Dimensions / Mass: 370 (W) x 536 (D) x 602 (H) mm / 38 kg (Standard model), 39 kg (FAF model)
 Product / Model: Optical Coherence Tomography RS-330

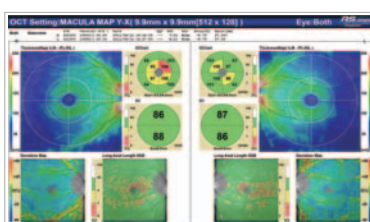
Software for RS series **Long Axial Length Normative Database**

Software that compensates for myopic eyes in glaucoma diagnosis

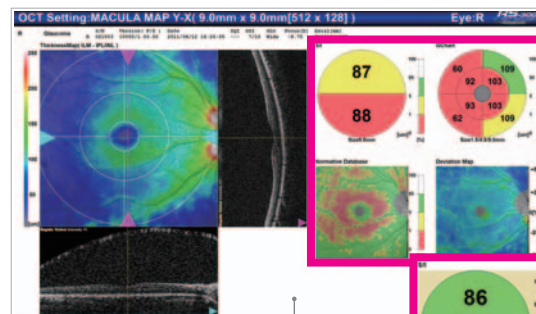
- » Optional software for use with the RS series
- » Based on data from normal eyes (free of ocular pathology) with long axial length
- » Data collected from Asian cases



N Normative database

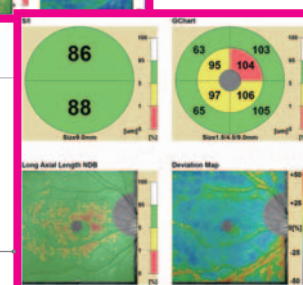


L Long axial length normative database



Normative database without axial length compensation

Long axial length normative database with axial length compensation



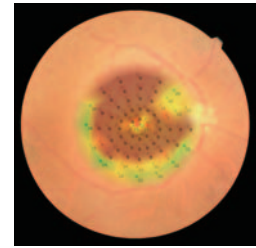


Microperimeter **MP-3**

Measurement of local retinal sensitivity to assess its functionality

- » High resolution non-mydiatic fundus camera
- » Display of measurement results overlaid on a color fundus image for assessment of correlation between retinal anatomy and retinal function
- » Wide range stimulus intensity
- » Auto tracking and auto alignment
- » Fixation test

Power supply: AC 100 to 240 V, 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

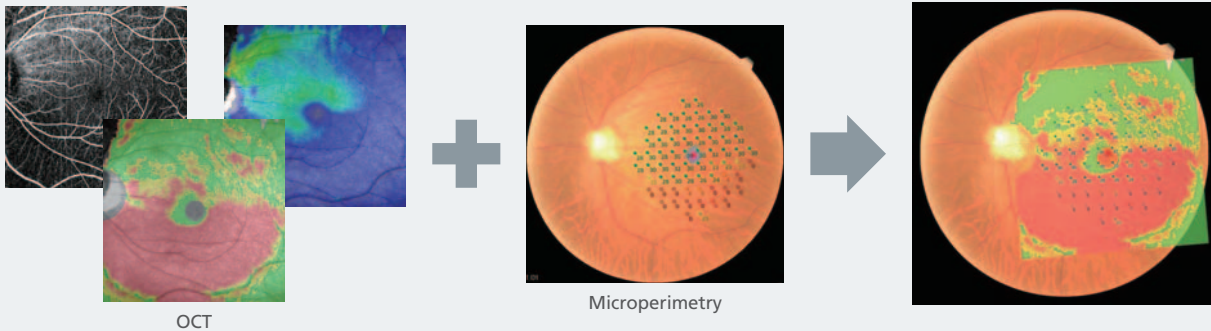


Multimodal Imaging with RS-3000 Advance and MP-3

Evaluate retinal structure and function simultaneously

- » The NAVIS-EX* registration function combines, registers and overlays the OCT and microperimetry into one display.

* NAVIS-EX is standard software included in the RS-3000 Advance and MP-3.



OCT

Microperimetry



Digital Ophthalmoscope **F-10**

High contrast angiography FA/IA images for extremely detailed evaluation of the retina and choroid

- » Exquisite images with four light sources (blue, green, red, IR) for each unique wavelength and SLO color image
- » Non-invasive imaging with retro mode and FAF
- » High frame rate for fluid motion images of FA and IA
- » Enhanced optical system (catadioptric system) for mitigating effects of aberrations

Power supply: AC 100 to 120, 220 to 240 V, 50 / 60 Hz
 Power consumption: 350 VA
 Dimensions / Mass: 450 (W) x 610 (D) x 590 to 630 (H) mm / 55 kg
 Product / Model: OPHTHALMOSCOPE F-10

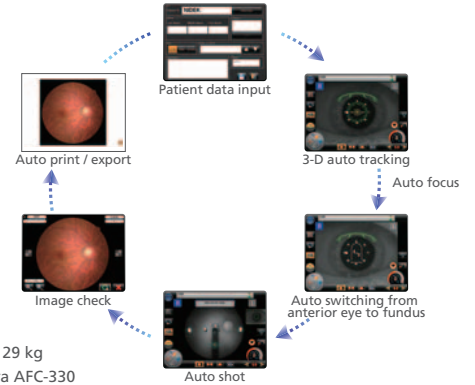
Diagnostic Retina & Glaucoma



Non-mydratric Auto Fundus Camera **AFC-330**

Five automated functions for enhanced ease-of-use

- » Built-in camera and computer
- » Monitor and indicator for operator assist
- » Navigation of stereo and panorama photography
- » Low flash intensity and quiet shutter sound



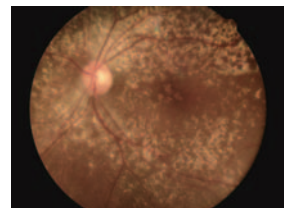
Power supply: AC 100 to 240 V, 50 / 60 Hz
 Power consumption: 150 VA
 Dimensions / Mass: 316 (W) x 518 (D) x 579 (H) mm / 29 kg
 Product / Model: Non-Mydratric Auto Fundus Camera AFC-330



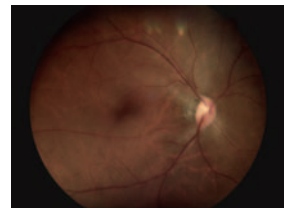
Digital Medical Scope **VersaCam™ α**

The versatile, portable fundus imaging unit

- » High quality imaging
- » Lightweight and compact design
- » Easy image capture with auto focus and internal fixation lamps
- » Simple data transfer and management with the NAVIS-EX, image filing software for NIDEK devices

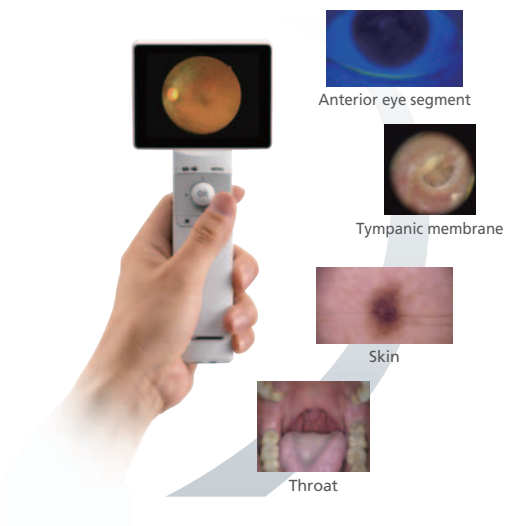


Age-related macular degeneration



Glaucoma

Power supply: Lithium-ion rechargeable battery,
 AC 100 to 240 V, 50 / 60 Hz
 Dimensions / Mass
 Main body: 89 (W) x 40 (D) x 203 (H) mm / 285 g
 Ophthalmoscope: 118 (L) x 43 (Dia.) mm / 160 g
 Product / Model: Digital Medical Scope DS-20



Digital Medical Scope **VersaCam™**

Digital solution for viewing, showing, and recording various clinical images

- » Wide range of interchangeable lenses
- » Improved informed consent
- » Easy and quick image filing with the NAVIS-EX, image filing software for NIDEK devices
- » Excellent portability
- » Easy one-handed operation

Power supply: Lithium-ion rechargeable battery, AC 100 to 240 V, 50 / 60 Hz
 Dimensions / Mass
 Main body: 89 (W) x 44 (D) x 205 (H) mm / 254 g
 Ophthalmoscope adapter (optional): 135 (L) x 44 (Dia.) mm / 140 g
 Product / Model: Digital Medical Scope DS-10F

Ophthalmic Laser

Tailor your **Laser** treatment to suit the patient

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

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

Multicolor for multiple applications

» Multicolor on modular architecture

	Green (532 nm)	Yellow (577 nm)	Red (647 nm)
Three-color selection	●	●	●
Two-color selection	●	●	●
One-color selection	●	●	●

» 22 preprogrammed scan patterns for varying retinal pathologies*



- » Auto forward function for automated positioning of the scan pattern
- » Intuitive graphic user interface and easy-to-read color LCD touch screen
- » Wide range of selectable delivery units

* Available for the MC-500 Vixi

Power supply: AC 115, 230 V, 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: MC-500 Vixi
 (Type: Scan slit lamp delivery unit)

Ophthalmic Laser

577 nm



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

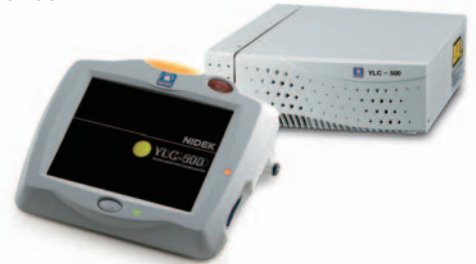
Yellow Scan Laser Photocoagulator **YLC-500 Vixi** new
Yellow Laser Photocoagulator **YLC-500** new

A 577 nm yellow laser with multiple scan patterns

- » OPSL method for stable and reliable laser delivery
- » The 577 nm yellow laser - the wavelength of choice for lesions close to the macula
- » 22 preprogrammed scan patterns for varying retinal pathologies*
- » 5.7-inch color LCD with touchscreen control box
- » Wide range of selectable delivery units

*Available for the YLC-500 Vixi

Power supply: AC 100 to 240 V, 50 / 60 Hz
Power consumption: 250 VA
Dimensions / Mass
YLC-500 Vixi: 276 (W) x 318 (D) x 90 (H) mm / 7.15 kg
YLC-500 : 237 (W) x 318 (D) x 90 (H) mm / 5.6 kg
Product / Model: Yellow Laser Photocoagulator YLC-500



532 nm



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
- » Integrates with the NIDEK CV-30000, ophthalmic surgical system
- » 5.7-inch color LCD with touchscreen control box
- » Stable and reliable green laser
- » 22 preprogrammed scan patterns for varying retinal pathologies*
- » Wide range of selectable delivery units

*Available for the GYC-500 Vixi

Power supply: AC 100 to 240 V, 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



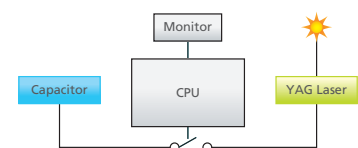
Ophthalmic YAG Laser System **YC-1800**

Reliable and versatile - proven by an installed base of more than 3000 units

- » S-switch for quick, easy change of settings during treatment
- » Reliable laser output with unique D-pulse control



- » Dual rotatable aiming beam for accurate alignment
- » Wide range of focus
- » Combination with the MC-500 and GYC-500



Power supply: AC 100 to 240 V, 50 / 60 Hz
Power consumption: 100 VA
Dimensions / Mass: 324 (W) x 407 (D) x 528.5 (H) mm / 16 kg
Product / Model: Ophthalmic YAG Laser System YC-1800

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.



Pre-loaded IOL Injection System

SZ-1 / SZ-1C

True 2.2 mm small incision*1

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*2

*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

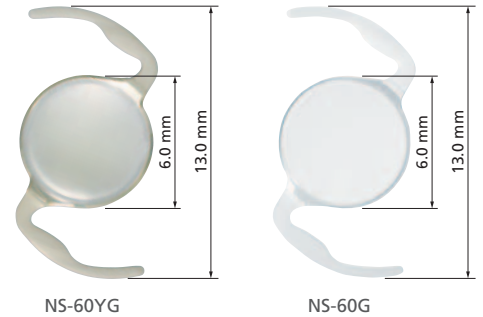
Aspheric Single-piece IOL Aktis SP

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
- » Asperitic optic side surface to reduce intraocular reflection
- » Yellow tinting for natural color perception*

* Available for the NS-60YG

Optic material	Diopter range: 1.0 to 10.0 D (1.0 D increments)
NS-60YG: Yellow tinted hydrophobic soft acrylic	10.0 to 27.0 D (0.5 D increments)
NS-60G : Hydrophobic soft acrylic	27.0 to 30.0 D (1.0 D increments)
Haptic material	Product / Model: Nex-Acri AA 1P NS-60YG
NS-60YG: Yellow tinted hydrophobic soft acrylic	Nex-Acri 1P NS-60G
NS-60G : Hydrophobic soft acrylic	



Pre-loaded IOL Injection System NZ-1

Push or screw - Operate your way

- » Three-piece pre-loaded model
- » Neutral spherical aberration
- » J-loop design for smooth injection with pre-loaded 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

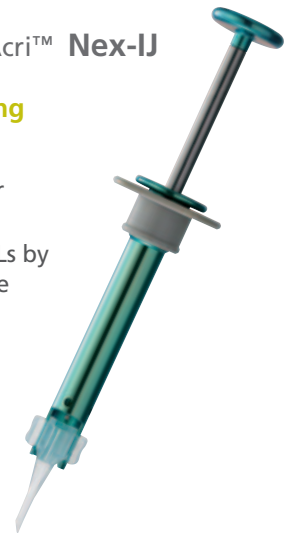


Injector for Aktis SP / Nex-Acri™ Nex-IJ

Easy, simple, fast lens setting

- » Reusable injector
- » Spring loaded mechanism for gentle lens delivery
- » Applicable with all NIDEK IOLs by simply changing the cartridge

Diopter range
 Type4C: 1.0 to 30.0 D (NS-60YG, NS-60G)
 Type3C: 1.0 to 30.0 D (N4-18YG)
 Type2C: 1.0 to 30.0 D (N4-18YG, N4-11YB)
 1.0 to 28.0 D (N4-18B)
 Product / Model
 Nex-IJ Handpiece: IJ-2
 Nex-IJ Cartridge: Type 2C / 3C / 4C

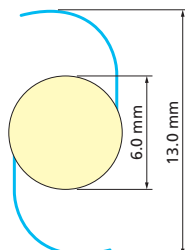


Tinted and Aspheric Hydrophobic Acrylic IOL Nex-Acri™ AA Aktis

1st generation enhanced monofocal IOL

- » Three-piece aspheric IOL
- » Yellow tinting for optimum color density
- » Aspherical IOL targeting for aberration free postoperative outcome

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

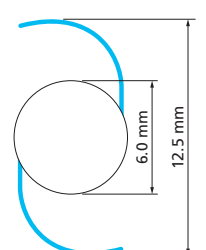


Hydrophobic Acrylic IOL Nex-Acri™

NIDEK standard IOL

- » Three-piece spherical IOL
- » Clear color lens

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



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
- » High speed vitreous cutter, maximum 8,000 cuts / min*
- » Navigation mode to guide the setup procedure
- » Integration with GYC-500 Green Laser Photocoagulator



* Available for the Type AP
(Maximum 5,000 cuts / min is available for the Type A)

Power supply: AC 115, 230 V, 50 / 60 Hz
 Power consumption: 650 VA (Type AP), 450 VA (Type A)
 Dimensions / Mass: 512 (W) x 555 (D) x 1,540 (H) mm / 115 kg (Type AP), 110 kg (Type A)
 Product / Model: Ophthalmic Surgical System CV-30000

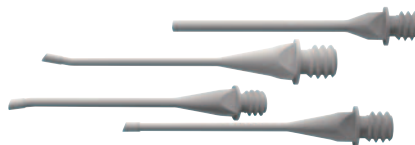


Photo: Type AP

Ophthalmic Surgical System **CV-9000 / CV-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: AC 100 to 230 V, 50 / 60 Hz
 Stand with motorized pole (optional): AC 115, 230 V, 50 / 60 Hz
 Power consumption: 240 VA (main body)
 300 VA (including optional stand with motorized pole)

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 with motorized pole (optional): 433 (W) x 567 (D) x 1,067 (H) mm / 38 Kg
 Product / Model: Ophthalmic Surgical System CV-9000
 Ophthalmic Surgical System CV-9000R



Photo: CV-9000

Refractive Surgery

Delivering to you the ultimate solutions for **Refractive Surgery**

NIDEK proposes an evolutionary customized refractive surgery platform, the NAVEX Quest M2, which is comprised of the Quest M2 excimer laser system, the OPD-Scan III refractive power / corneal analyzer and the Final Fit™ software. This platform offers advanced technologies with excellent workmanship and outstanding clinical outcomes. This platform provides all the tools needed for performing customized refractive surgical procedures.

Excimer Laser System **Quest M2** new

The proven excimer laser for refractive and therapeutic corneal corrections

- » 1 KHz Eye Tracking System (ETS) to follow the patient's eye for accurate and precise laser alignment and treatment
- » Torsion Error Correction (TEC) for cyclotorsion detection and compensation in order to improve cylinder correction accuracy and more precisely deliver MultiPoint™ ablation to correct specific high-order aberrations
- » Motorized magnification control allowing the surgeon to change the magnification easily with a switch on the controller
- » MultiPoint™ for a highly precise ablation of small area irregularities by using Super flex scan with a unique slit scanning ablation profile



Power supply: AC 200 to 240 V, 50 / 60 Hz

Power consumption: 3.3 kVA

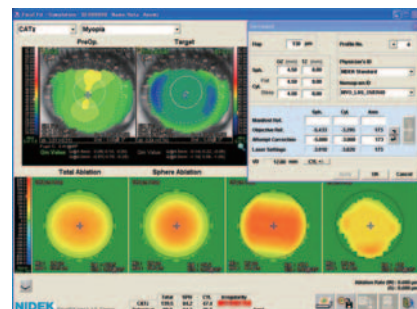
Dimensions / Mass: 1,442 (W) x 1,400 (D) x 1,400 (H) mm / 650 kg

Product / Model: Excimer Laser Corneal Surgery System EC-5000CXIII

Custom Ablation Software **Final Fit™**

Software for calculating the precise customized ablation parameters for the excimer laser system

- » Various simulations of postoperative corneal shapes and refractive powers
- » Generating excimer laser shot data using the measured data from the NIDEK OPD-Scan III, refractive power / corneal analyzer
- » Multiple ablation pattern options



Product / Model: Final Fit for Refractive Surgery Final Fit

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 unit, 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.



Multifunction Edger **Me 1200**

The high-end model of NIDEK lens edger sure to meet any lens finishing needs

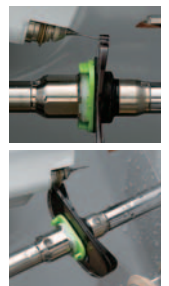


- » Automatic 3-D drilling and grooving
- » Step bevel / partial step edging
- » High-base curve lens processing
- » Design mode (advanced shape editor, partial grooving and beveling, design cut, facet)

Power supply: AC 100 to 120, 230 V, 50 / 60 Hz
Power consumption: 1.5 kVA
Dimensions / Mass: 600 (W) x 496 (D) x 355 (H) mm / 52 kg

Multifunction Edger **Me 900**

High quality lens edger with superior 3-D drilling accuracy



- » Automatic 3-D drilling and grooving
- » Safety beveling
- » Processing mode for various kinds of lens materials
- » Advanced shape editor
- » User-friendly LCD touch screen

Power supply: AC 100 to 120, 230 V, 50 / 60 Hz
Power consumption: 1.3 kVA
Dimensions / Mass: 600 (W) x 496 (D) x 355 (H) mm / 50 kg

Lens Edging



Photo: LEX-1200 with Lex Drill*

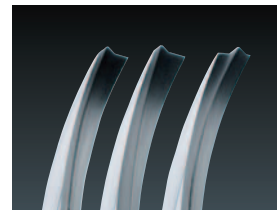
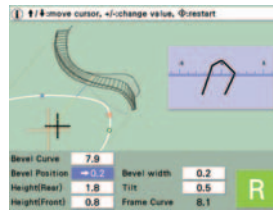
Power supply: AC 100 to 120 V, 230 V, 50 / 60 Hz
 Power consumption: 1.5 kVA
 Dimensions / Mass: 528 (W) x 493 (D) x 356 (H) mm / 45 kg

Patternless Edger LEX-1200

Versatile lens edger for the perfect curve for the perfect fit

- » Built-in high-wrap frame tracer
- » Advanced technology for roughing process control
- » Semi step / custom bevel edging modes
- » High-base curve bevel edging mode
- » Drilling function*

* Lex Drill is an optional auto drilling unit connectable with the LEX-1200.

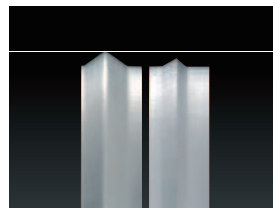


Power supply: AC 100 to 120 V, 230 V, 50 / 60 Hz
 Power consumption: 1.3 kVA
 Dimensions / Mass: 528 (W) x 493 (D) x 345 (H) mm / 41 kg

Patternless Edger LE-1200

Reliable standard edger offering faster processing with high luster finish

- » High speed / high quality edging
- » Built-in high-wrap frame tracer
- » Mini bevel edging mode
- » Chuck pressure stabilizer
- » Grooving / safety beveling



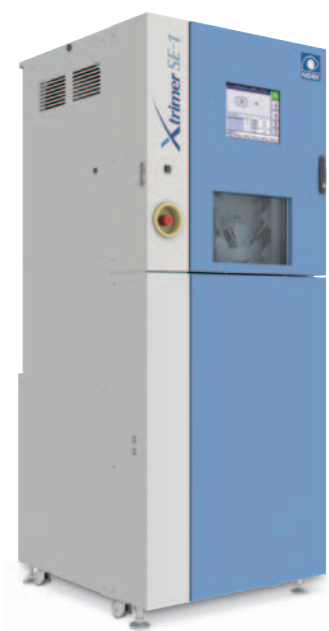
Power supply: AC 100 to 120, 230 V, 50 / 60 Hz
 Power consumption: AC 100 to 120 V: 1.0 kVA, AC 230 V: 1.3 kVA
 Dimensions / Mass: 543 (W) x 490 (D) x 345 (H) mm / 33 kg

Edging Station LE-700

All-in-one edger with integrated blocker and tracer

- » Innovative entry model
- » Simple, built-in intelligent blocker
- » "Tracer-free" tracing technology
- » Operator-oriented usability
- » 3-D edging for first-time-fit accuracy
- » Frame tracer (optional)





System Dry Edger **Xtrimmer SE-1**

Highly capable revolutionary dry edger

- » "V" design processing technology
- » Astonishing speed and "3D-fit"
- » Intuitive screen design and high resolution graphics



- » Small footprint for any installation location
- » Multiple-shape capability

Power supply: AC 230 V, 50 / 60 Hz
 Power consumption: 1.0 kVA
 Dimensions / Mass: 700 (W) x 750 (D) x 1,750 (H) mm / 420 kg



Photo: SE-9090 Supra

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

Advanced industrial edger with dual spindle system for high volume production

- » Auto grooving*
- » User-friendly 10.4-inch SAGA color LCD touch panel
- » Simultaneous dual-side lens measurement
- » High quality automatic polish safety beveling

*Available for the SE-9090 Supra

Power supply: AC 200 to 250 V, 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 3-D hole drilling and grooving for the SE-9090 Supra series

- » Automatic 3-D 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: AC 200 to 250 V, 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.

Auto Dry Edging System / Auto Edging System ADS-2200 / AES-2200

Full automation edging system with double arm mechanism

- ADS-2200: two units of the SE-1 with the RHU-2200D
 AES-2200: two units of the SE-9090 series with the RHU-2200
- » High-speed processing
 - » Easy setup of full automation

Power supply: AC 200 to 250 V, 50 / 60 Hz

Power consumption

ADS-2200: 2.3 kVA

AES-2200: 5.3 kVA

Dimensions / Mass

ADS-2200: 2,036 (W) x 1,285 (D) x 1,750 (H) mm / 1,010 kg

AES-2200: 2,036 (W) x 1,052 (D) x 1,461 (H) mm / 431 kg



Photo: ADS-2200 (RHU-2200D + two units of SE-1)
 AES-2200 (RHU-2200 + two units of SE-9090 Supra)

Auto Dry Edging System / Auto Edging System ADS-1000 / AES-1000 Series

High speed system edger with two types of conveyance system

- ADS-1000: the SE-1 with the RHU-1000D
 AES-1000: the SE-9090 series with the RHU-1000
- » A stacker type and a conveyor belt type in each model
 - » High base curve lens processing
 - » Easy operation and maintenance

Power supply: AC 200 to 250 V, 50 / 60 Hz

Power consumption

ADS-1000S / ADS-1000CB: 1.6 kVA

AES-1000S / AES-1000CB: 3.1 kVA

Dimensions / Mass

ADS-1000S : 960 (W) x 1,500 (D) x 1,750 (H) mm / 640 kg

ADS-1000CB: 1,392 (W) x 1,400 (D) x 1,750 (H) mm / 605 kg

AES-1000S : 800 (W) x 1,185 (D) x 1,472 (H) mm / 338 kg

AES-1000CB: 1,207 (W) x 1,128 (D) x 1,472 (H) mm / 303 kg



Photo: ADS-1000CB (RHU-1000DCB + SE-1)
 ADS-1000S (RHU-1000DS + SE-1)
 Photo: AES-1000S (RHU-1000S + SE-9090Supra)
 AES-1000CB (RHU-1000CB + SE-9090Supra)

Satellite Tracer LT-1200

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

- » Automatic dual 3-D tracing
- » Variable fulcrum stylus
- » Composite tracing
- » Advanced shape editor function
- » Multifunction lab and web tracer



Power supply: AC 100 to 120, 230 V, 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 dual 3-D tracing
- » Variable fulcrum stylus
- » Integrated debris protection
- » One-touch demo lens holder
- » Built-in accessory storage space



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

Power consumption: 70 VA

Dimensions / Mass: 315 (W) x 300 (D) x 155 (H) mm / 7 kg

Lens Edging

Intelligent Blocker **ICE-1200**

Top-tier auto blocker measuring the lens shape and hole position

- » New blocking mechanism
- » High-wrap curve frame tracer
- » Easy operation
- » Integrated shape imager (ISI)



Power supply: AC 100 to 120 V, 230 V, 50 / 60 Hz
Power consumption: 110 VA
Dimensions / Mass: 325 (W) x 510 (D) x 345 (H) mm / 21 kg

Intelligent Blocker **Ice 900**

Versatile superior blocker used in both retail and lab

- » Quick twin jog dials
- » Tiltable display
- » Integrated shape imager (ISI)
- » Partial step measurement (optional)



Power supply: AC 100 to 120, 230 V, 50 / 60 Hz
Power consumption: 50 VA
Dimensions / Mass: 256 (W) x 367 (D) x 352 (H) mm / 8 kg

Intelligent Blocker **ICE mini+**

A popular blocker with simple operability

- » User-friendly LCD touch panel
- » Versatile network capability
- » Hole edit function



Power supply: AC 100 to 120, 230 V, 50 / 60 Hz
Power consumption: 50 VA
Dimensions / Mass: 230 (W) x 367 (D) x 292 (H) mm / 6 kg

Centering Device **CE-9**

Compact manual blocker

- » Long-life LED
- » Light control for optimum visibility



Power supply: AC 100 to 240 V, 50 / 60 Hz
Power consumption: AC 100 to 120 V: 10 VA
AC 200 to 240 V: 22 VA
Dimensions / Mass: 113 (W) x 155 (D) x 214 (H) mm / 1.7 kg

Lens Dust Filtration Unit **Lfu 220**

Hybrid filtration system for lens edgers

- » Hybrid System
- » Easy operation
- » Compact design
- » Water temperature stability



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

Lens Edger Deodorizer **LED-200**

Advanced performance deodorization for lens edgers

- » Slim and compact design
- » Automatic start and stop
- » High-performance deodorization
- » Low-cost maintenance



Power supply: AC 115, 230 V, 50 / 60 Hz
Power consumption: 50 VA
Dimensions / Mass: 399 (W) x 91 (D) x 458 (H) mm / 10 kg

Visual Prosthesis

“Invisible to Visible”

Development of Visual Prostheses is the dream and goal of NIDEK.

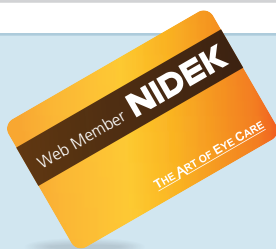
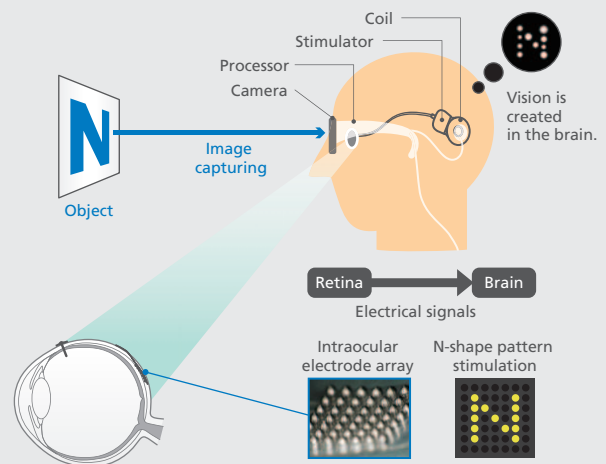
NIDEK has been conducting R&D on Visual Prostheses since 2001.

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.

NIDEK’s Approach to the Artificial Retina System*

NIDEK is developing an Artificial Retina System that electrically stimulates the retina. Our method of retinal stimulation is called suprachoroidal transretinal stimulation. This stimulation strategy has been developed in collaboration with a research group at Osaka University, which has been our R&D partner from the launch of this project. This original method gives top priority to safety and reliability.

* There are many types of visual prostheses for the reconstruction of vision. Among these, the one that stimulates the retina at the back of the eye is called an artificial retina system.



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What is NIDEK web member service?

NIDEK global website provides exclusive service to registered members. When you become a web member, you will gain access to a wealth of valuable content, such as product brochures, case reports, journal articles and lecture videos.



Brochures



Case Reports



Videos



E-mail newsletter service

Web members can subscribe to our informative email newsletter. NIDEK will send you useful information about new products, events and services.



Brochure and listed features of the device 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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