### OPD-Scan II (ARK-10000) Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
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<tbody>
<tr>
<td><strong>Spherical power range</strong></td>
<td>-20.00 to +22.00 D</td>
</tr>
<tr>
<td><strong>Cylindrical power</strong></td>
<td>0.00 to 12.00 D</td>
</tr>
<tr>
<td><strong>Axis</strong></td>
<td>0 to 360°</td>
</tr>
<tr>
<td><strong>Measuring area</strong></td>
<td>2.0 to 0.0 mm diameter (4 zone measurement)</td>
</tr>
<tr>
<td><strong>Measuring points</strong></td>
<td>1,440 points (4 x 360)</td>
</tr>
<tr>
<td><strong>Measuring time</strong></td>
<td>&lt; 4 seconds</td>
</tr>
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<td><strong>Measuring method</strong></td>
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</tr>
<tr>
<td><strong>Mapping methods</strong></td>
<td>OPD, Internal OPD, Wavefront maps, Zernike graph, PSF</td>
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| **Corneal topography**         | Axial, Instantaneous, "Refractive", Elevation, Topochecker* |
| **OPD**                        | Wavefront, Zernike graph, PSF |
| **Wavefront**                  | MTF, MTF graph, Visual acuity |
| **Others**                     | Internal OPD, Target refractive, Differential, Eye image, Asphericity index (D, E, S) |

| **Measurement rings**          | 19 vertical, 23 horizontal         |
| **Dioptic range**              | 0 to 100 D                        |
| **Axis range**                 | 0 to 35°                          |
| **Measuring points**           | More than 6,800                   |
| **Mapping methods**            | Axial, Instantaneous, "Refractive", Elevation |

| **Working distance**           | 25 mm                              |
| **Auto tracking**              | 8.1° deflection                     |
| **Observation area**           | 14 x 8 mm                          |
| **Operating system**           | Windows XP embedded*               |
| **Display**                    | 16.4-inch color TFT touch panel    |
| **Printer**                    | Built-in thermal line printer for data print External color printer (optional) for map print |

| **Computer requirements**      | Pentium III 1200 MHz or higher |
| **Hard disk space**            | 30 GB or more                    |
| **Memory**                     | 256 MB or more (above 512 MB recommended) |
| **Graphic**                    | 1024 x 768 pixels, 32 bit true color or more |
| **LAN port**                   | CD-ROM drive                     |
| **USB port**                   | Windows XP*                      |

### OPD-Station Specifications

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<tr>
<td><strong>Power supply</strong></td>
<td>100 / 120, 200 / 240 Vac</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>50 / 60 Hz</td>
</tr>
<tr>
<td><strong>Dimensions / Weight</strong></td>
<td>30 x 12 x 28 cm / 2.85 kg / 6 lbs</td>
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### IOL-Station Specifications

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</tr>
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<tbody>
<tr>
<td><strong>Computer requirements</strong></td>
<td>Pentium 4 1.3GHz or higher</td>
</tr>
<tr>
<td><strong>Hard disk space</strong></td>
<td>1TB or more</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>512MB or more</td>
</tr>
<tr>
<td><strong>Graphic</strong></td>
<td>1024 x 768 pixels, 32 bit true color or more</td>
</tr>
<tr>
<td><strong>Monitor</strong></td>
<td>Compatible with graphic mode as specified above</td>
</tr>
<tr>
<td><strong>LAN port</strong></td>
<td>1 or more</td>
</tr>
<tr>
<td><strong>USB port</strong></td>
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<td><strong>OS</strong></td>
<td>Windows XP SP2 32bit English*</td>
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*Windows is a trademark of Microsoft Corporation U.S.A.
Optical Path Difference Scanning System
**OPD-Scan II ARK-10000**

### Accurate and Reliable Data for Optic Diagnostics

The OPD-Scan II provides information on corneal topography, wavefront, autorefraction, keratometry and pupillometry in one unit, utilizing state-of-the-art imaging and analysis technology developed specifically to measure normal to highly aberrated eyes. The system offers a variety of data maps to provide information on the total refractive error, wavefront, corneal shape, internal aberrations and visual quality of the eye, allowing highly accurate and reliable information for optic diagnostics.

The OPD-Scan II utilizes the principle of skiascopic phase difference for refractive error map measurement. The retina is scanned with an infrared light slit beam, and the reflected light is captured by an array of rotating photo detectors over a 360° area.

### Data Maps

#### OPD Map

The OPD (Optical Path Difference) map plots the refractive error distribution of total eye aberrations, lower and higher order, in Diopters. This map allows the clinician to easily determine the refractive status and visual quality of the eye with one quick look. This map is unique to the OPD-Scan II.

#### Wavefront High Order Aberration Map

This map shows specific high-order aberration components only, extracted from the total wavefront map. Plotted in microns, this map illustrates the location and degree of high-order aberrations in the eye.

#### Zernike Graph

This graph plots the magnitude of each aberration components such as spherical aberration, coma and trefoil that makes up the total aberration of the eye. The graph is used to determine which components (s) dominate the aberration structure of the eye and to what degree. This information may be connected to visual symptoms.

#### Internal OPD Map

This map shows the internal aberrations of the eye. It can be used to distinguish between the effects of internal aberrations and corneal or surface aberrations. For normal corneas, the map indicates the presence of internal astigmatism (especially, lenticular astigmatism), and shows the direct refractive effect of an IOL (such as tilt and haptic torque). This map is also unique to the OPD-Scan II.

#### Axial Map

This is a corneal topography map showing the general surface shape of the cornea. With this map, clinicians can easily recognize such conditions as keratoconus and an irregular astigmatism.

#### Eye Image

This is the actual image of the eye when the measurement is taken. By looking at the actual eye, conditions such as corneal or cataract opacity can be identified. Photopic and Mesopic images are displayed in addition to Placido Ring image.
Optical Path Difference Scanning System
OPD-Scan II ARK-10000

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Optional Software

**The IOL-Station for Wavefront Assisted Cataract Surgery**

The IOL-Station software is a powerful tool for cataract surgeons. The IOL-Station is software for Wavefront assisted Cataract Surgery, including multiple IOL calculations, average IOL calculation, aspheric IOL selection, post-operational vision simulation and surgical summary developed in cooperation with Dr. Paolo Vinciguerra.

The IOL-Station's features include:
- **Navigator Mode** for quick and accurate calculation
- **Advanced Mode** for more detailed information
- **Post-Op Vision Simulation** for selection of an Aspheric IOL
- **Flexible selection of IOL formula**
- **Post LASIK calculation available**
- **Formula Comparison Screen**
- **One-Click data import**

**Averaged Corneal Pupil Power (APP)**
By utilizing the IOL-Station’s Averaged Corneal Pupil Power (APP), calculation for selection of an IOL is now safer and more accurate.

**Post-Op Vision Simulation**
By selecting an IOL, Post-Op vision is simulated on screen with chart. The IOL-Station’s Post-Op Vision Simulation is a useful tool for selection of an Aspheric IOL, as well as informed consent.

**Flexible selection of IOL formula**
Popular IOL formulas such as BINKHORST, HOFFER Q or HOLLADAY formula are available.

**Post LASIK calculation available**
Camellini-Calossi IOL formula is applicable for a patient who underwent refractive surgery (RK, AR, CK, PRK, LASIK, PTK, LK, etc.). Also, Non-History method IOL formula is selectable for a patient with unknown history of refractive surgery.

**Formula Comparison Screen**
Up to six results of IOL calculation with different formulas can be compared or be averaged with Formula Comparison Screen. For a patient with unknown history of refractive surgery, comparing calculation result with Camellini-Calossi formulas and Non-History method is beneficial.

**Accommodation Measurement Function**
Accommodation Measurement Function is available as an add-on to the built-in function of the OPD-Scan II. The distribution of refractive power is measured on far vision and near vision with specific accommodation. The function benefits in confirming correct function of accommodative IOL. Accommodation amount is variable within the range of -10D to 0.0D.
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The IOL-Station features Navigator Mode for quick and accurate calculation, as well as detailed Advanced Mode, which provides much more detailed information for precise consideration of a surgery.

Selecting an aspheric IOL is now easy with the IOL-Station by utilizing the OPD-Scan II's data on aberration of the eye and appointing target spherical aberration of the eye after an IOL implantation.

The IOL-Station's Post-OpVision Simulation is a useful tool for selection of an Aspheric IOL, as well as informed consent.

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One-Click data import
Connecting the IOL-Station PC with the OPD-Scan II Optical Path Difference Scanning System and the US-4000 / US-500 Echoscan by network enables one-click import of such data like K-Value, Aberration, Corneal Topography, Axial Length, Anterior Chamber Depth, Lens Thickness, Corneal Thickness.

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Features of the OPD-Scan II

- **Measurement Selection for Improved Reliability**
  The OPD-Scan II offers increased reliability of examination by automatically selecting the best measurement from multiple measurements, allowing a more reliable clinical decision.

- **Fast Processing Speed**
  The OPD-Scan II offers fast processing speed, minimizing stress in daily clinical use.

- **Improved Accessibility to a Patient Eye**
  With the improved forehead rest, it is easier to reach and keep the patient’s eyelids open.

- **Wide Measurement Range**
  Has the ability to measure high power Cylinder providing accuracy in irregular aberration measurements. (Sphere -20.0 to +22.0D and Cylinder 0.0 to ±12.0D)

- **Easy Data Maintenance with a Detachable Hard Drive**
  Patient data is saved to a detachable Hard Drive, allowing quick and easy data transfer.

- **Network Capabilities**
  Data from the OPD-Scan II may also be analyzed at a remote location using the OPD-Station.

Optional Software

- **Corneal Navigator**
  Corneal Navigator can be used as an integrated function of the OPD-Station or be integrated separately into the OPD-Scan II. Utilizing various corneal parameters from topography, the Corneal Navigator automatically determines corneal features and shows by percentage the possibility of having a condition of normal (NRM), astigmatic (AST), keratoconus suspects (KCS), keratoconus (KC), pellucid marginal degeneration (PMD), myopic refractive surgery (MRS), hyperopic refractive surgery (HRS), and penetrating keratoplasty (PKP). Instant analysis by the Corneal Navigator helps improve the quality of examination / diagnosis.

*The Corneal Navigator is developed in collaboration with Stephen D. Klyce, PhD & Michael K. Smolek, PhD.

- **The OPD-Station Corneal / Refractive Analysis Software**
  The OPD-Station software makes a variety of corneal / refractive analysis possible using advanced, unique and intelligent functions including the Holladay Summary and Corneal Navigator (optional).

  The OPD-Station provides various maps such as the OPD HO Map, PSF, MTF, MTF Graph and Visual Acuity Chart in addition to the OPD-Scan II maps. For waveform maps such as the PSF and MTF, clinicians can select the target (OPD, Cornea, Internal) and also the type (Total, HO, Group) according to their needs.

  Holladay Summary*
  The “Holladay Summary” shows the patient where the aberrations are located and how they affect the quality of vision using the Wavefront, MTF, PSF and VA-chart simulations.

  *Developed in cooperation with Jack T. Holladay, MD.

- **PSF Simulation**
  Calculates the Point Spread Function (PSF) based on the OPD data, and displays in simulation the distribution of the point spread. The Strehl Ratio serving as a metric of the visual quality of the eye is also displayed.

- **Retinal Image Simulation**
  Calculates the distortion of incoming light based on the results of PSF analysis, and displays the simulated retinal image of the projected chart. This simulation can be used in explanations to patients for informed consent.

- **OPD HO Map**
  Displays in diopters the high order aberrations and shows the refractive errors which cannot be corrected with glasses.

- **Averaging Multiple Exams**
  The OPD-Station creates an exam data average from multiple exams. Noise components such as tear film and fixation disparity are excluded, providing more stable and reliable data.

*The OPD-Scan II is the only instrument that couples Wavefront, Topography and Refraction into one unit. This allows the isolation of any optical problem to cornea or crystalline lens making it easy to decide if lensectomy or corneal surgery is the procedure of choice. It also provides the best data for Customized Corneal Refractive Surgery.*

Jack T. Holladay, M.D., M.S.E.E., F.A.C.S.

* I see for the future the coupling of wavefront sensors with corneal topography devices for the optimal correction of aberrations in a patient’s eye.*

Stephen D. Klyce, Ph.D.
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**Corneal topography**
- 19 vertical, 23 horizontal

**Measuring area**
- 0.5 to 11.0 mm dia. (n=7.9)

**Dioptric range**
- 50 to 100° D

**Axis range**
- 0 to 355°

**Measuring points**
- More than 6,800

**Mapping methods**
- Axial, Instantaneous, "Refractive", Elevation

**Working distance**
- 25 mm

**Auto tracking**
- 90° directions

**Observation area**
- 14 x 8 mm

**Operating system**
- Windows XP embedded*

**Display**
- 10.4-inch color LCD touch panel

**Printer**
- Built-in thermal line printer for data print (optional) for map print

**Power supply**
- 100 / 120, 220 / 240 Vac

**Power consumption**
- 50 / 60 Hz
- 170 VA

**Dimensions / Weight**
- 290 (W) x 199 (D) x 260 (H) mm / 25 kg

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### OPD-Station Specifications

**Analysis and map display**
- Corneal topography: Axial, Instantaneous, "Refractive", Elevation, Topoasphere*
- OPD, Wavefront: Wavefront, Zernike graphs, PSF, MTF, MTF graph, Visual acuity
- Internal OPD, Target refraction: Differential, Eye image, Asphericity index (Q, e, S)

**Computer requirements**
- CPU: Pentium III 1200 Mhz or higher
- Free disk space: 30 GB or more
- Memory: 256 MB or more (above 512 MB recommended)
- Graphic: 1024 x 768 pixels, 32 bit true color or more
- LAN port: 1 or more
- USB port: 1 or more
- OS: Windows XP SP2 32bit English*

### IOL-Station Specifications

**Computer requirements**
- CPU: Pentium 4 1.3GHz or higher
- Hard disk space: 1GB or more
- Memory: 512MB or more
- Graphic: Compatible with graphic mode as specified above
- LAN port: 1 or more
- USB port: 1 or more
- OS: Windows XP SP2 32bit English*

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**Eye & Health Care**

**NIDEK CO., LTD.**

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**NIDEK TECHNOLOGIES SRL.**
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35020 Albignasego (Padova), Italy
Telephone: 39 049 8629200 / 8626399
Facsimile: 39 049 8626824
URL: http://www.nidektechnologies.it

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