NIDEK
Optical Biometer
AL-Scan



## 3-D Auto Tracking and Auto Shot

The AL-Scan incorporates NIDEK's much acclaimed 3-D auto tracking and auto shot, enabling accurate measurement with ease and comfort. The 3-D auto tracking follows eye movements along the $\mathrm{X}-\mathrm{Y}-\mathrm{Z}$ directions to ensure accurate alignment of the eye. Once correct alignment is completed, the auto shot immediately captures the image and data.

## Anterior Segment Observation with Scheimpflug Imaging and Double Mire Ring Keratometry

The AL-Scan provides sectional lens image, pupil image, and reflected image of double mire rings projected onto the cornea.
The sectional lens image assists in the evaluation of the severity of the cataract. The pupil image assists in the assessment for multifocal IOL. The reflected image of mire rings assists in detecting an irregular corneal surface.


Sectional lens image (Scheimpflug image)


Pupil image


Reflected image of double mire rings

## Optional Built-in Ultrasound Biometer

In cases where the optical biometer cannot measure an eye with an extremely dense cataract, the AL-Scan provides an optional built-in ultrasound biometer, allowing measurement of virtually any cataractous eye with a combined model.
The AL-Scan requires no connection with an external ultrasound unit.


Ultrasound biometry


## IOL Power Calculation and IOL Constants Optimization

The IOL power is automatically calculated after measurement.
Calculation of a personalized IOL constant improves postoperative accuracy.


## IOL power calculation formula on AL-Scan

SRK, SRK II, SRK/T, Binkhorst, Hoffer Q, Holladay 1, Haigis, Camellin-Calossi, Shammas-PL

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Additional Barrett formulas available for the NAVIS-EX AL-Scan Viewer Barrett Universal II, Barrett True-K, Barrett Toric Calculator

## AL-Scan Viewer for NAVIS-EX

AL-Scan Viewer is software used for viewing and working with AL-Scan data via NAVIS-EX. This function enhances the capability of the AL-Scan with additional features and increases the efficiency of any clinic.


NAVIS-EX is an image filing software that enables data from the NIDEK diagnostic devices to be centralized in the NAVIS-EX database. It was initially developed for NIDEK's retinal products and has been expanded to network with the AL-Scan.

* NAVIS-EX is optional software and is required for use of the AL-Scan Viewer.


## Data Management and IOL Power Calculations

The large storage capacity of the NAVIS-EX database is available for review on the AL-Scan Viewer. The basic functions of the AL-Scan can also be performed with the AL-Scan Viewer including IOL power calculations and optimization of IOL constants.


## Toric Lens Assist Function

Acquisition of multiple toric lens assist images allows selection of the optimal image for digitally marking the astigmatic axis. These images allow better surgical planning for accurate toric IOL alignment.

## Recalculation of Measured Values

The AL-Scan Viewer allows recalculation of modified axial length, white-to-white, and pupil size data for accurate calculations.


## AL-Scan Specifications



| AL-Scan Viewer for NAVIS-EX* |  |
| :--- | :--- |
| IOL calculation formula |  |
| $\quad$ Conventional | SRK, SRK II, SRK/T, Binkhorst, Hoffer Q, Holladay 1, Haigis, <br> Camellin-Calossi, Barrett Universal II |
| Post-LASIK Camellin-Calossi, Shammas-PL, Barrett True-K <br> Toric calculator Barrett Toric Calculator |  |
| Additional features | Maximum data entry for 100 IOLs |
| IOL registration <br> Surgeon registration <br> Surgeon-specific constant <br> optimization | Available |

* NAVIS-EX is optional software and is required for use of the AL-Scan Viewer.

Product/Model name: OPTICAL BIOMETER AL-Scan
Brochure and listed features of the device are intended for non-US practitioners.
Specifications may vary depending on circumstances in each country.
Specifications and design are subject to change without notice.

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