

General Information

Cone	Sharp angle
Analysed rings	60
Weight	15 Kg – 29 lbs
Analysed points	Up to 21,600
Camera resolution	768 x 576 pixels
Joystick	3-axes of motion control
Software	NAVIS, contact-lens fitting**, Corneal Navigator*, Corneal Aberrometry*, Orthokeratology*
Minimum PC requirements	Pentium III – OS: Windows 2000/XP HD: 40 GB RAM:256 MB
Storage	Automatic backup on HD/CD
Class	1B (according to IEC 601-1)
Power	100 to 240 VAC 50/60 Hz
Laser	1x laser Class 1 Max output 0.8 mW at 635-670 nm electronic limitations at 6 uW

* Included in MM-1 Professional

** Not available in U.S. market

Features

- **Corneal Navigator™:** Automatically determines corneal features and shows, by percentage, the state of the cornea: 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) — gives more objective data for the practitioner, increasing predictive capabilities and diagnostic acumen — especially in borderline cases
- **Highest Industry Resolution & Accuracy:** Placido based low-light-level cone works in conjunction with a dual border detection algorithm, leading to the highest resolution in the topographic field — up to 21,600 measured data points
- **Innovative Software:** Innovative corneal topography software leads to a fast and easy evaluation of the maps
- **Ergonomic Design:** Unique design increases performance and patient comfort — fixation target and laser spot allow easy alignment, reduce examination time, and require minimum patient cooperation
- **Contact Lens Fitting:** Fit contact lenses accurately by simulating the real visco-elastic dynamics of the lens on the tear film — adjust fits fast and easily with an up-to-date lens database of the main contact lens manufacturers

Medical Device Directive 93/42/EEC

Caution: U.S. federal law restricts the device to sale by or on the order of a physician or other licensed practitioner. The process of making a diagnosis shall involve an eye doctor.

Manufactured by Nidek Technologies Srl, Albignasego (Padova), Italy.

Specifications are subject to change for improvement without notice.



Corneal Topographer



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UNSURPASSED ACCURACY



The Art of Eye Care

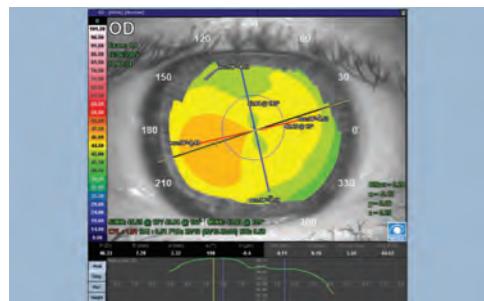
THE STATE-OF-THE-ART Topographer

Based on its unsurpassed accuracy and reliability, together with proper powerful software, *Magellan Mapper* is the world's first corneal topographer that screens eight different corneal disorders — one step beyond the market standard.



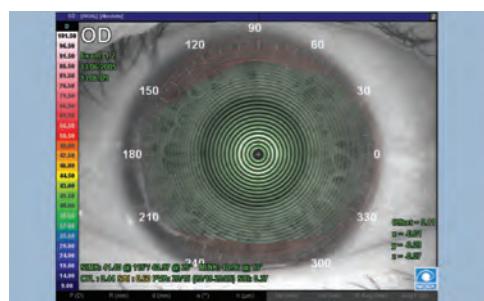
Highest Resolution & Accuracy

The *Magellan Mapper* has the highest resolution of any placido topographer, with 60 rings and the industry's best distribution of 21,600 measured real data points. And the *Magellan Mapper* accurately tracks without "ring lock," so highly irregular corneas provide meaningful data.



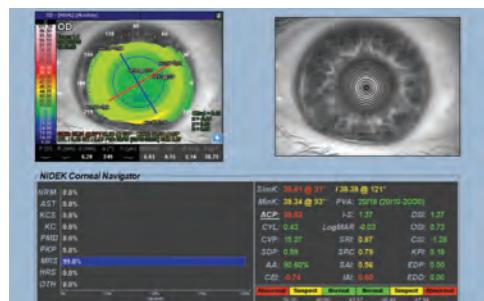
Ergonomic Interface

The advanced low-light cone makes exams comfortable for light-sensitive patients. The easy-to-use one-page interface allows the operator to easily and quickly access all data. The availability of different maps, scales, and analysis tools gives the clinician a complete solution through user-friendly software.



Clear & Concise Data

The *Magellan Mapper* is a clinician's topographer. Unlike many topographers, the *Magellan Mapper* clearly labels the difference between real and interpolated data. It exclusively uses color-coded offset indices to inform the practitioner of the exam reliability.



CORNEAL NAVIGATOR™ SOFTWARE

Through a neural network software and by utilizing the latest updated corneal statistics developed by Dr. Klyce, the Corneal Navigator™ is used by the *Magellan Mapper* to screen for eight different corneal conditions, including Pellucid Marginal Degeneration and Keratoconus. The statistics analysis consists of 21 different indexes with normality range for each one including Simulated Keratometry (SimK), Minimum Keratometry (MinK), Surface Regularity Index (SRI), Surface Asymmetry Index (SAI) and Average Corneal Value (ACP) extremely helpful for IOL calculation.



Diagnosis & Follow-Up

- Automatic assessment of normal and abnormal corneal states
- Corneal Navigator™ displays percentage similarities of disorders, increasing awareness of borderline diseases such as: Keratoconus (KC), Keratoconus Suspect (KCS), Pellucid Marginal Degeneration (PMD), Astigmatism (AST), Myopic Refractive Surgery (MRS), Hyperopic Refractive Surgery (HRS), and Penetrating Keratoplasty (PKP)
- Document and track disease progression over time with the advanced, Keratoconus Severity Index (KSI)
- Measurement of pupil diameter

Pre- & Post-Surgery

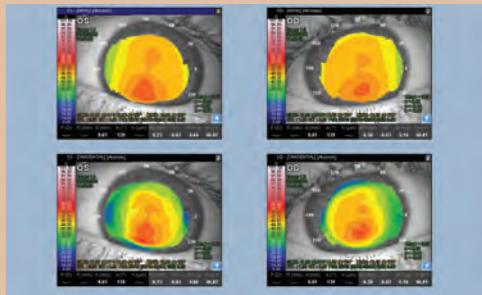
- Analyse corneal aberrometry through the Zernike decomposition software
- Fine tune surgical planning and predict outcomes
- Detect main vision defects
- Analyse the PSF (Point Spread Function)
- Evaluate over corrections
- Simulated eye-chart displays corneal aberration

Innovative Software

- Maps Available: axial, tangential, refractive, height
- Scales Available: absolute, Waring/Maguire, Smolek/Klyce, adjustable, normalized
- Advanced user interface with specific items: rings, eye bitmap, pupil, profile, etc.
- Fine-astigmatism calculation: orthogonal, zonal, and instantaneous
- From one to four different maps available on a single interface

Contact Lens Fitting & Management

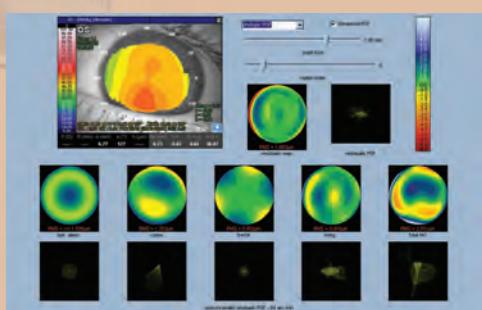
- Fit contact lenses accurately by simulating the real visco-elastic dynamics of the lens on the tear film to correct irregular astigmatism, high regular astigmatism, anisometropia, abnormal aniseikonia, and normal ametropia
- Adjust fits fast and easily with an up-to-date lens database of the main contact lens manufacturers



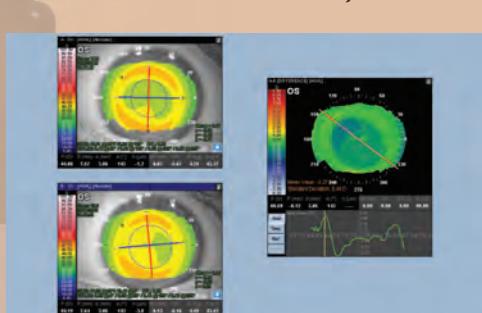
User-friendly Interface



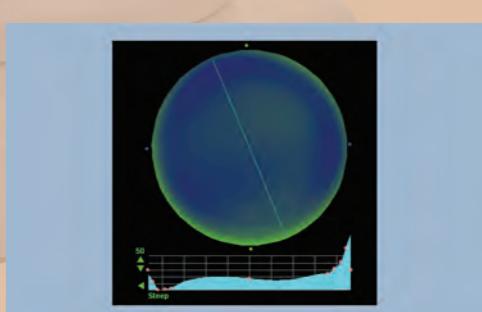
NAVIS



Corneal Aberrometry



Orthokeratology



Contact Lens Fitting

