Humphrey® ATLAS™ Model 995 Corneal Topography System

A VISX® CAP Method™ Technology Partner

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Humphrey ATLAS Corneal Topography System

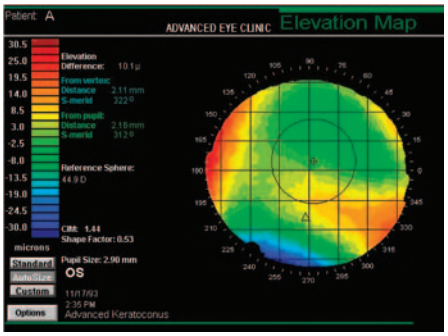
Highly intuitive and user-friendly, the Humphrey ATLAS Corneal Topography System is ideal for primary care, computerized contact lens fitting, pathology detection, and corneal refractive surgery management.

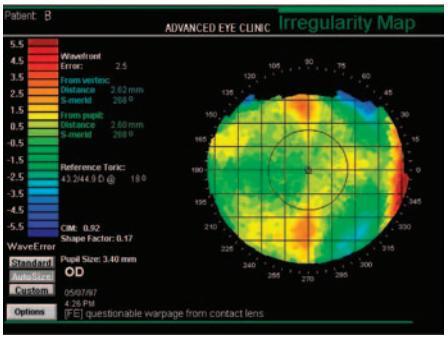
The ATLAS System combines comprehensive software with advanced imaging and analysis technology and has established itself as the world's most popular corneal topography system. It sets the standard of care, incorporating many exclusive features and capabilities, such as an advanced Arc-Step Algorithm, true elevation data and aspheric surface reconstruction.

The 22-ring Placido Cone presents a larger limbus-to-limbus field of view and its ideal spacing avoids ring crossover. The patented Cone-of-Focus™ technology enables superior electronic alignment for greater repeatability and accuracy. Also patented is the ATLAS Patient Interface, which positions the patient for wide peripheral coverage and automatically detects OS/OD. The ATLAS System also features Automatic Pupil Measurement and has USB and Ethernet capabilities to support network data storage and printing.

Included with the ATLAS System are the Advanced Refractive Diagnostic and Healing Trend/STARS software modules, which provide true elevation, irregularity and trending tools for today's practice in a managed care environment.

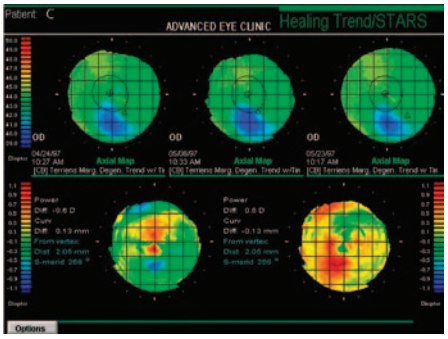
Value-Enhancing Data Analysis Software Modules





Advanced Refractive Diagnostics

The Advanced Refractive Diagnostics module adds true elevation and wavefront irregularity maps to enhance surgical and diagnostic decision-making. True elevation (vs. "height" maps from conventional topographers) is made possible by the patented Cone-of-Focus, which uses a unique extended Placido ring to establish a reference for highly accurate, true surface elevation. The irregularity map displays residual surface features that contribute to higher order aberrations and may limit best-corrected visual acuity.

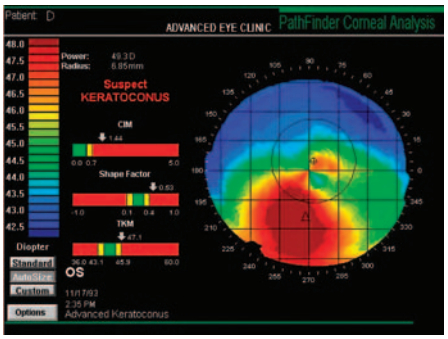


Healing Trend/STARS

This module documents corneal shape changes over time.

- Track corneal stability after cessation of contact lens wear for keratometric-based IOL power calculation
- Monitor the effects of contact lens wear on the cornea
- Monitor the results of ortho-keratology or CRT therapy
- Monitor healing and stability after corneal refractive surgery (e.g., CK, LASIK, etc...)

Optional Software Modules

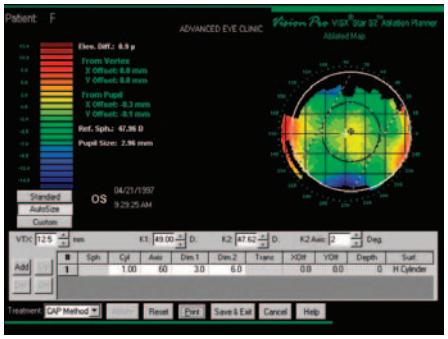


Pathfinder™ Corneal Analysis

Pathfinder helps take the guesswork and subjective assessment out of color topography map interpretation to aid the practitioner in his/her medical judgment of a patient's corneal health by presenting three indices derived from corneal topography data in a practice-friendly format, including comparison to a statistical population distribution. When used in conjunction with other clinical information sources, Pathfinder provides a key tool for a practitioner to use when screening patients and managing pathologies.

MasterFit™ Contact Lens Fitting Module

Rigid Gas Permeable contact lens fitting is facilitated with this powerful practitioner's tool. Individually defined fitting preferences and open architecture allow input of virtually any contact lens parameters for total flexibility to minimize fitting time and maximize patient satisfaction. Users can select a topographic or keratometric fitting approach to best match their own methodology.



VisionPro™ Ablation Simulator (VISX C-CAP Program)

VisionPro is an interactive treatment planning tool for the VISX® STAR™ laser for the correction of previously decentered ablations resulting from treatment on any brand of laser. It is used in conjunction with the VISX Custom-CAP™ method. Several views provide visualization of the corneal shape, refractive power and tissue volume changes based on the surgeon's ablation simulations.

Use of this program requires certification through VISX, and it is currently approved by the FDA under a Humanitarian Device Exemption (HDE).

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System Specifications

Working Distance:	70mm
Field of view:	12.5mm
Placido Rings:	22 (18 superiorly), near-infrared
Range:	x to y mm, 15 to 95 D (n=1.3375)
Repeatability:	+ 0.10 D on test sphere
Archive/Backup:	Floppy, network, or external hard drive
Printing:	USB, Serial Port, Ethernet
Electrical Requirements:	115V~,2A, 50-60 Hz
Dimensions LxWxH:	18.3" x 12.3" x 18.0"; 466mm x 313mm x 457mm
Weight:	Approx. 43 lbs. (20kg)
Standard Views:	Axial (Sagittal) Curvature Tangential (Instantaneous) Curvature Refractive Power Elevation (difference from best-fit sphere) Simulated Keratometry (SimK) Healing Trend/STARS™
Standard Hardware:	Intel Pentium processor 128 MB RAM 3.5" floppy drive 40 GB hard drive USB, RS-232 and Ethernet ports 10.4" TFT LCD Display Glide Pad pointing device

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