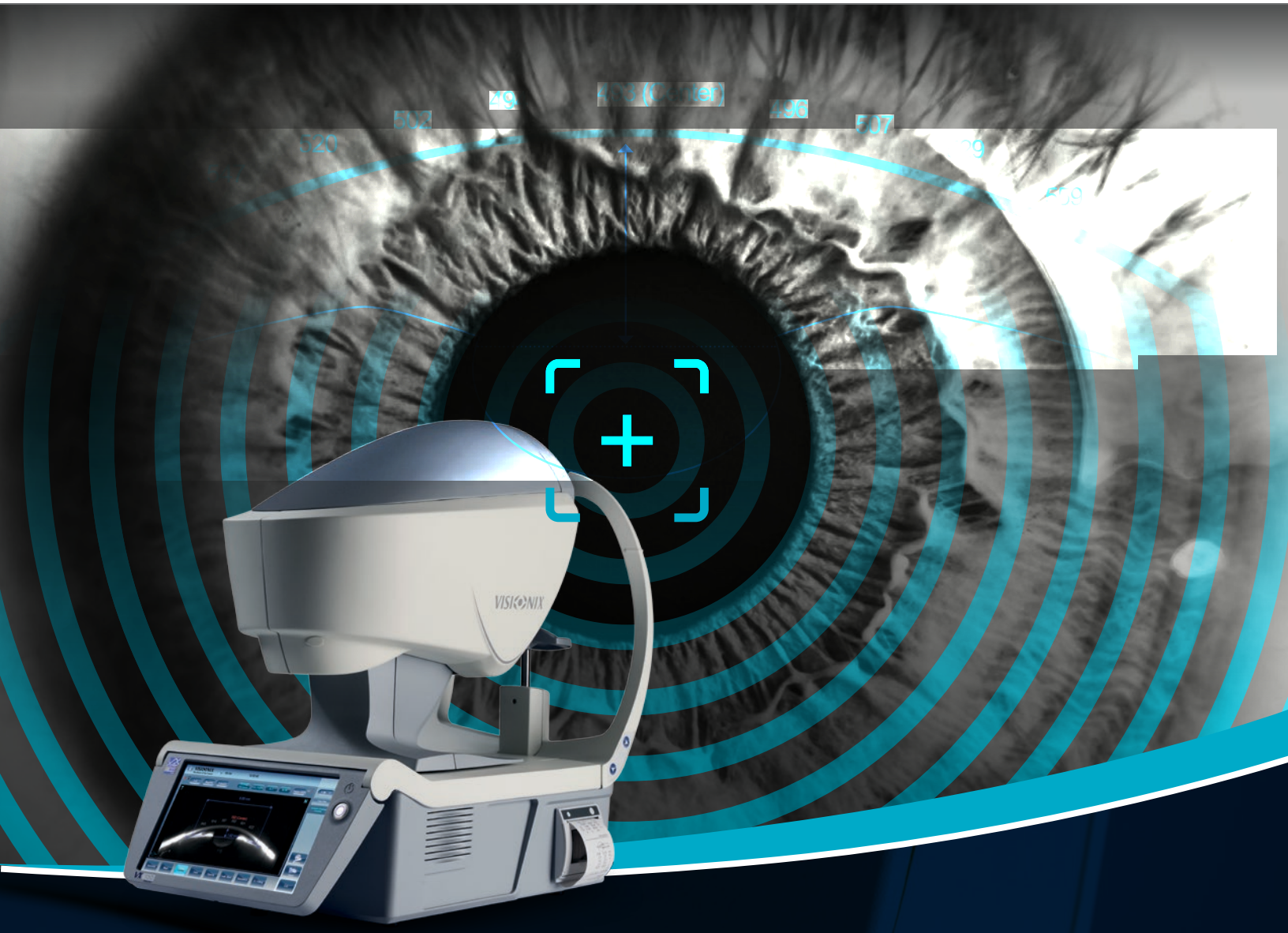
VX 130

Wavefront Diagnostic



EMPOWER YOUR PRACTICE

WITH COMPREHENSIVE COMPLETE ANTERIOR SEGMENT ANALYSIS

VISIONIX

The Vision of the Future

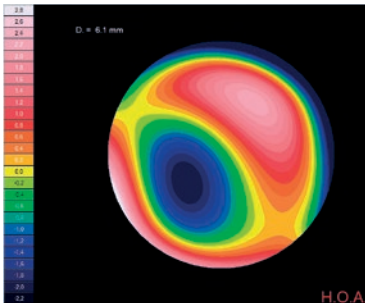
THE POWER OF THREE

THE VX130 IS THE ONLY INSTRUMENT WHICH FEATURES SHACK-HARTMANN WAVEFRONT ABERROMETRY, SCHEIMPFLUG CORNEAL TOMOGRAPHY, AND PLACIDO RING CORNEAL TOPOGRAPHY COMBINED IN A SINGLE INSTRUMENT, GIVING YOU THE MOST COMPREHENSIVE AND ACCURATE ANTERIOR SEGMENT ANALYSIS AVAILABLE TODAY. ALONG WITH PATENTED POWERMAP® WAVEFRONT TECHNOLOGY AND A FULLY AUTOMATED OPERATOR INTERFACE, THE VX130 WILL TRANSFORM YOUR CLINICAL MANAGEMENT AND PATIENT EXPERIENCE.

COMPLETE VISUAL ASSESSMENT AT YOUR FINGERTIPS

OBJECTIVE REFRACTION WITH WAVEFRONT ABERRATION ANALYSIS

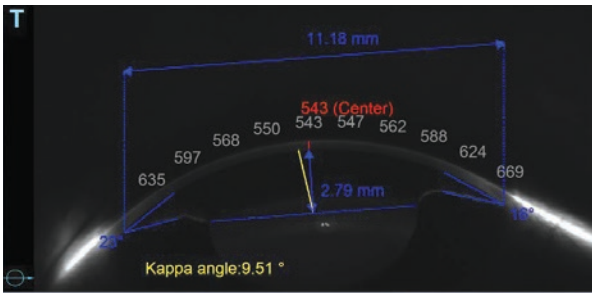
SHACK-HARTMANN SENSOR | **OBJECTIVE REFRACTION** | **VISUAL ASSESSMENT VIA WAVEFRONT ANALYSIS**



> 1200 points of analysis for a pupil of 7 mm in diameter
> Objective refraction under mesopic and photopic conditions
> Measures lower-order and higher-order aberrations
> Access visual acuity and quality of vision from a pupil diameter as small as 1.2 mm

TONOMETRY / PACHYMETRY / IRIDO-CORNEAL ANGLES

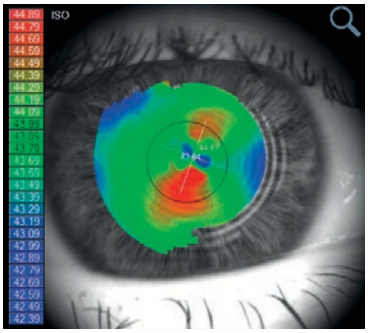
SCHEIMPFLUG IMAGING | **NON-CONTACT TONOMETRY** | **PRECISE SCREENING FOR GLAUCOMA**



> Measurement of IOP (intraocular pressure)
> Measurement of corneal thickness using Scheimpflug imaging
> Corrected IOP as a function of corneal thickness
> Automatic measurement of irido-corneal angles using Scheimpflug imaging

CORNEAL TOPOGRAPHY

24 RING PLACIDO DISC | **TOPOGRAPHY MAPS** | **ANALYSIS OF CORNEAL CURVATURE**



> Axial, Tangential, Elevation and refraction maps
> Keratometry
> Contact lens fitting
> Keratoconus screening
> Eccentricity
> Corneal aberrometry

REFRACTIVE SURGERY PRE- AND POST-OP

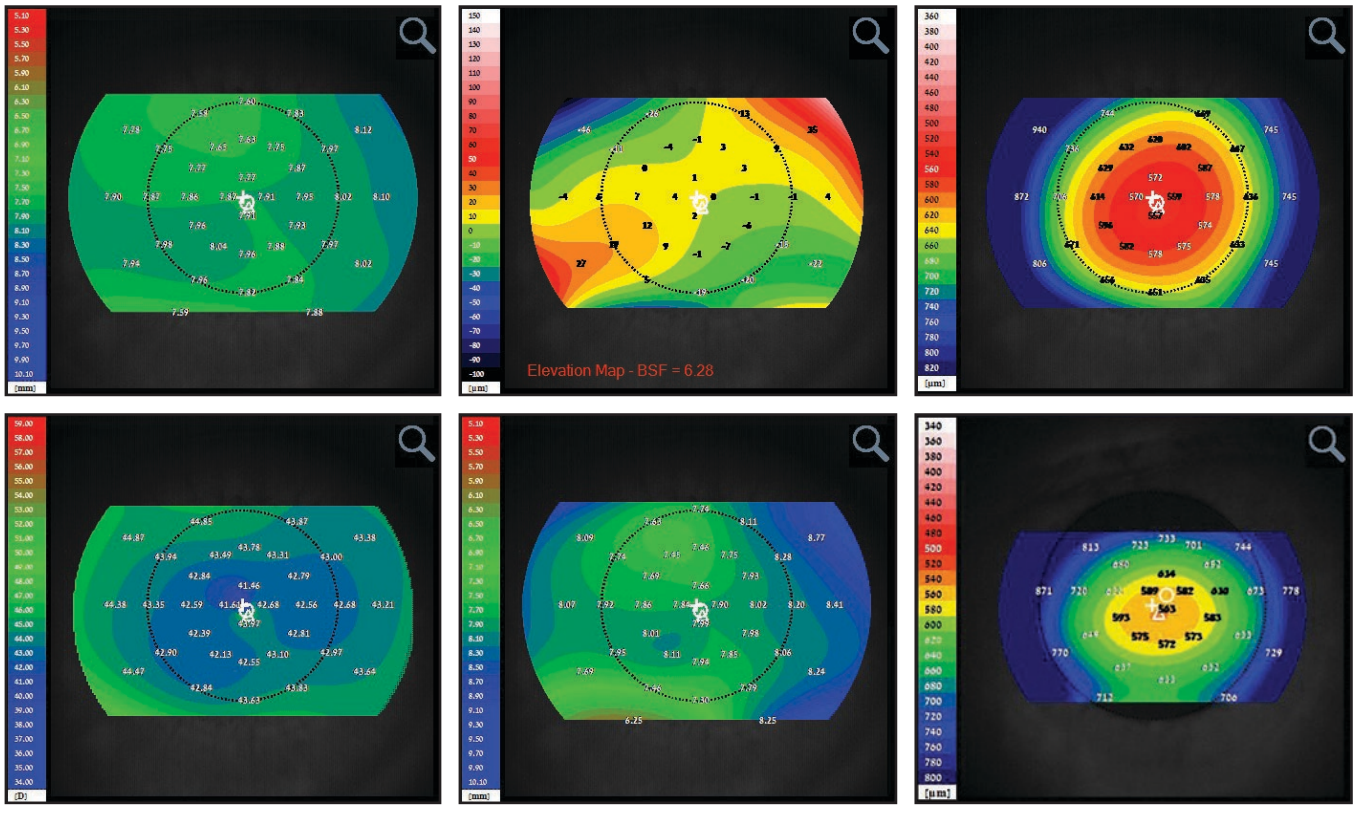
ANTERIOR AND POSTERIOR CORNEAL TOPOGRAPHY

SCHEIMPFLUG IMAGING CORNEAL TOMOGRAPHY | **THICKNESS MAP AND ELEVATION MAP** | **SELECTION OF PATIENTS**

Complete analysis of the cornea

A multitude of data is obtained including Scheimpflug imaging , corneal topography, thickness maps, and elevation maps on a broad corneal surface.

> Corneal thickness map
> Elevation map
> Anterior and posterior axial, tangential and refraction maps
> Anterior and posterior keratometry, eccentricity



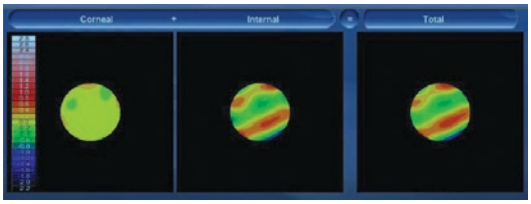
PRE-OP CATARACT SURGERY

RETRO-ILLUMINATION
SHACK-HARTMANN MATRIX
SCHEIMPFLUG CAMERA

OPACITY SCREENS

SCREENING FOR CATARACTS

> Visualization of crystalline opacities
> Analysis of wavefront aberrations, with the ability to separate corneal and lenticular/internal aberrations



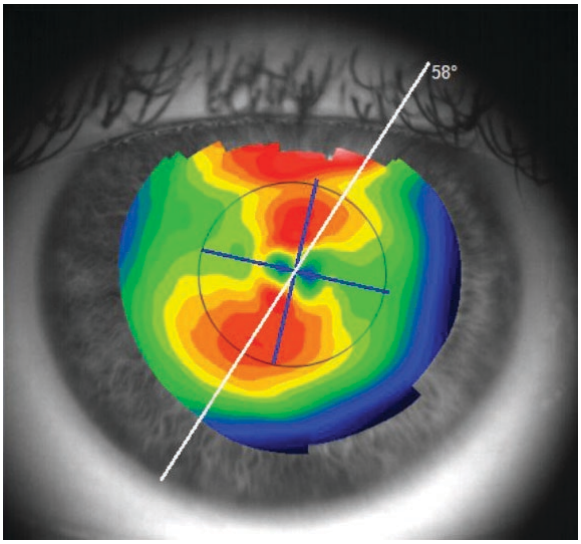
POST-OP CATARACT SURGERY

RETRO-ILLUMINATION

ANALYSIS OF AXIS

POST-OP CHECK TORIC LENS IMPLANT

> Post-op check on intraocular lens implants
> Axis alignment check of the toric lens implant
> Analysis of post op output to improve surgery protocol



VX 130 Diagnostic

TECHNICAL SPECIFICATIONS

GENERAL	
Dimensions	570 mm (h) x 312 mm (w) x 530 mm (d)
Weight	27 kg
Working distance	91 mm
Alignment	XYZ automatic
Display	10.1" LCD Multi-touch screen
Observation area	ø 14 mm
Printer	Integrated black and white, external color available
Voltage	100/120, 220/240 V CA, 50/60 Hz, 250 W
Medical devices directive	EC MDD 93/42/EC modified by directive 2007/47/EC
Output	RS232 / USB / VGA / LAN

POWER MAPPING AND REFRACTION	
Spherical power range	-20D to +20D
Cylinder power range	0D to + 8D
Axis	0 to 180°
Measuring area	Min. ø 1.2 mm - Max. 7 mm (3 zones)
Number of measuring points	1,500 points
Acquisition time.	0.2 sec
Method	Shack-Hartmann

PACHYMETRY, IC (IRIDO-CORNEAL) ANGLE AND PUPILLOMETRY	
Method	Continuous vertical scan with the Scheimpflug camera
Pachymeter measuring range	150-1300 µm
Pachymeter resolution	+/- 10 microns
IC angle measuring range	0°-60°
IC resolution	0.1°
Pupil illumination	Blue light 455 nm

RETRO-ILLUMINATION	

CORNEAL TOPOGRAPHY BY SPECULAR REFLECTION	
Number of rings	24
Number of measuring points	6,144
Number of points analyzed	More than 100,000
Diameter of covered corneal area at 43D	From 0.33 mm to more than 10 mm
Measurement range	From 1 to 100 D
Repeatability	0.02 D
Method	Placido rings

TONOMETER	
Measurement range	1 mm Hg to 50 mm Hg

VX REFRACTION LINE

CUSTOMIZABLE REPORTS

OFFLINE VERSION

OFFICE SOFTWARE

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