EMPOWER YOUR PRACTICE
WITH COMPREHENSIVE COMPLETE ANTERIOR SEGMENT ANALYSIS
THE VX130 IS THE ONLY INSTRUMENT WHICH FEATURES SHACK-HARTMANN WAVEFRONT ABERROMETRY, SCHEIMPFLEG 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

- **SHEIMPFLUG 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

SCEIMPFLUG 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

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

POST-OP CATARACT SURGERY

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

### Tonometer
- **Measurement range**: 1 mm Hg to 50 mm Hg

### 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

---

**LUNEAU TECHNOLOGY USA**

224 James St. Bensenville, IL 60106 | P:(800)729-1959 | www.visionixusa.com