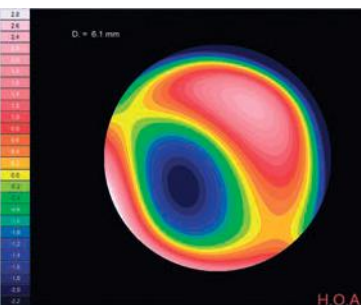


# DAILY PRACTICE

## OBJECTIVE REFRACTION AND ANALYSIS OF ABERRATIONS

### SHACK-HARTMANN SENSOR



### OBJECTIVE REFRACTION

- > 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

### VISION QUALITY VIA WAVEFRONT ANALYSIS

## TONOMETRY / PACHYMETRY / IRIDO-CORNEAL ANGLES

### SCHEIMPFLUG IMAGING



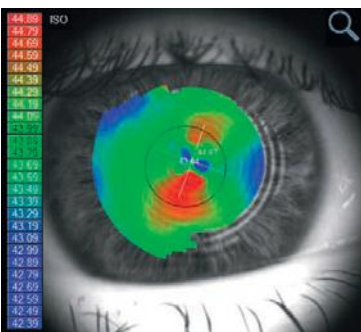
### NON-CONTACT TONOMETRY

- > 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

### SCREENING FOR GLAUCOMA

## CORNEAL TOPOGRAPHY

### PLACIDO DISC



### TOPOGRAPHY MAPS

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

### ANALYSIS OF CURVATURES OF THE CORNEA

**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" (1024 x 600) TFT screen 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
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
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

### VX REFRACTION LINE



**VX 24**  
Chart Display



**VX BOX**  
VSDU



**VX 40**  
Lensmeter



**VX 60**  
Phoropter



**VX 130**  
Diagnostic

### CUSTOMIZABLE REPORTS



### OFFLINE VERSION



### OFFICE SOFTWARE



**LUNEAU SAS**  
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A company of the Luneau Technology

The VX130 is a multi-function device combining a wavefront aberrometer, corneal topography, wavefront aberrometer, pachymeter and pupillometer, enabling measurement of eye parameters and analysis of the anterior chamber. Data for medical devices / Certified by ANCC / CE0473. The information contained in this document is intended for use by professionals. Before use, carefully read the instructions contained in the user manual. Training on the VX130 is required before use of the device. Even covered by health insurance under certain conditions. Manufactured by Luneau SAS - Distributed by: LUNEAU SAS 06.80.00.015 - Design: [www.visionix.com](http://www.visionix.com) - Photos: Eric Benveniste / Freepress - 120008 - Issue 00 - 05/16

**VX 130**  
Diagnostic



SCREENING OF PATIENTS,  
PRE- AND POST-OP SUPPORT BY A COMPREHENSIVE  
COMPLETE ANTERIOR SEGMENT ANALYSIS

**VISIONIX**  
The Vision of the Future



# VX130

"THE VX130 COMBINES STATE-OF-THE-ART TECHNOLOGIES (SCHEIMPFLUG SCAN CAMERA, NON-CONTACT TONOMETRY, ABERROMETRY, CORNEAL TOPOGRAPHY) AND PROVIDES ESSENTIAL DATA FOR AN IMPROVED TREATMENT OF PATIENTS, REGARDLESS OF THEIR CONDITION AND OCULAR HISTORY. WITH FULLY AUTOMATED MEASUREMENTS, THE VX130 IS THE IDEAL PATIENT MONITORING SYSTEM."

glaucoma risk

cataracts

keratoconus risk

post-op follow-up

## REFRACTIVE SURGERY PRE- AND POST-OP

### TOPOGRAPHY OF THE ANTERIOR AND POSTERIOR SURFACES OF THE CORNEA

SCHEIMPFLUG SCAN  
CORNEAL TOPOGRAPHY

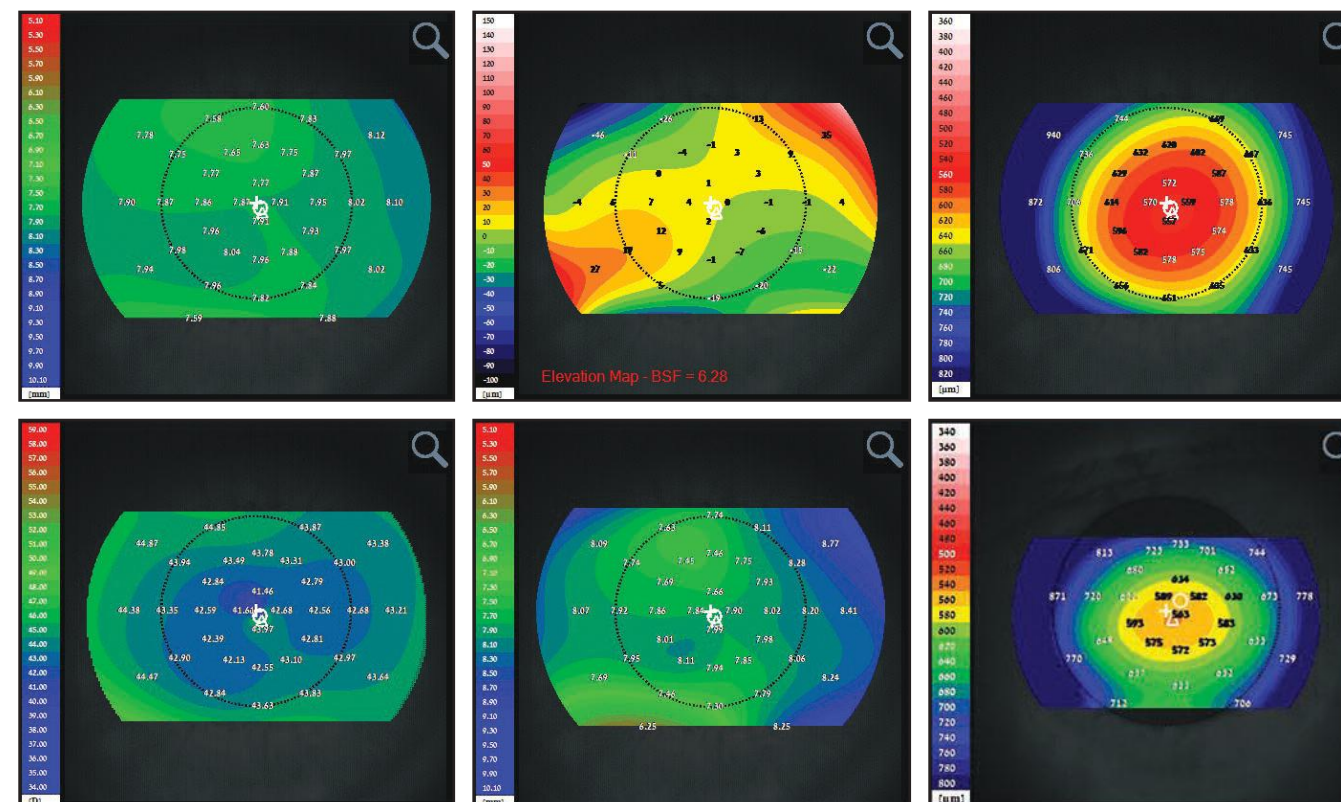
THICKNESS MAP  
ELEVATION MAP

SELECTION  
OF PATIENTS

#### Complete analysis of the cornea

Combination of data obtained by the Scheimpflug camera and corneal topography data, thickness maps and elevation maps can be obtained on a broad corneal surface.

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



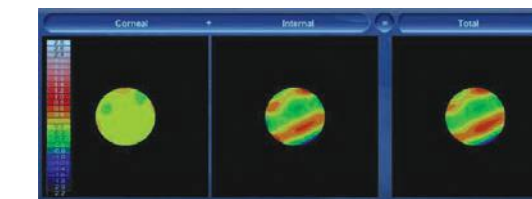
### PRE-OP CATARACT SURGERY

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

