VX 650

Multimodal anterior and posterior screener

VISIONIX

INNOVATION TO UNLOCK YOUR POTENTIAL

Introducing VX 650 by Visionix: Revolutionizing the future of visual healthcare

VX 650 provides unparalleled efficiency with comprehensive anterior and posterior segment data at your fingertips, providing all the screening data you need for effective patient consultation.

From cornea to retina, it detects major defects and pathologies, like keratoconus, cataracts, glaucoma, nevus, diabetic retinopathy, retinal hemorrhage and more.

This is a preview of the VX 650 summary screen.

Streamline your workflow with multimodal anterior and posterior screening.

Increased level of eyecare without delay

Reduce overall patient movement and time in the pre-test room while providing a comprehensive screening to every patient in combination with Eye Refract.

Remote viewing software

A licensed practitioner can review data collected by a technician from any location, then use the data to provide enhanced patient education. It offers efficient data management and HIPAA (Health Insurance Portability and Accountability Act) compliant data sharing.

Comprehensive screening in one device

The VX 650 combines seven instruments into one multimodal, diagnostic screening device to analyze the anterior and posterior segments accurately in minutes.

In addition to VX 650, Visionix offers a full line of multimodal screeners to meet the needs of the growing practice. Below is a comparison of Visionix screening devices.

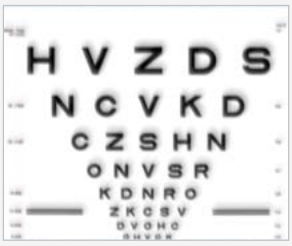
Model feature comparison	VX 650	VX 130+	VX 120+ Dry Eye	VX 120+	VX 110
Autorefraction / Keratometry	•	•	•	•	•
Shack-Hartmann Wavefront Technology	•	•	•	•	•
Fully Automatic Measurement	•	•	•	•	•
Placido Ring Corneal Topography	•	•	•	•	•
Corneal Aberrometry	•	•	•	•	•
Ocular Aberrometry	•	•	•	•	•
Retro-Illumination	•	•	•	•	•
Anterior Chamber Analysis	•	•	•	•	
Pachymetry	•	•	•	•	
Scheimpflug Imaging	•	•	•	•	
Non-Contact Tonometry	•	•	•	•	
Anterior / Posterior Corneal Tomography	•	•			
Dry Eye Anterior Imaging Module			•		
Retinal Imaging Module	•				

Comprehensive screening

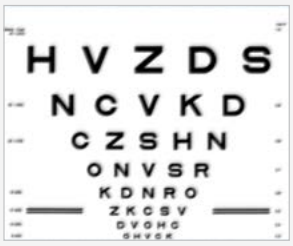
By collecting data through multimodal assessment, VX 650 allows the ECP to practice efficiently

ANTERIOR SEGMENT **RETROILLUMINATION, SHACK-HARTMANN WAVEFRONT SENSORS, SCHEIMPFLUG, PLACIDO RING TOPOGRAPHY**

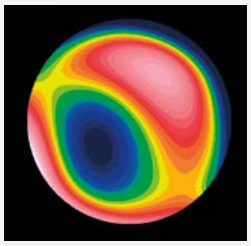
Detect, quantify and monitor refractive errors



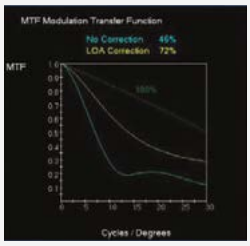
Vision quality



Visual acuity simulation



Lower-order and higher-order aberration maps



Analysis of aberrations with Zernike coefficients

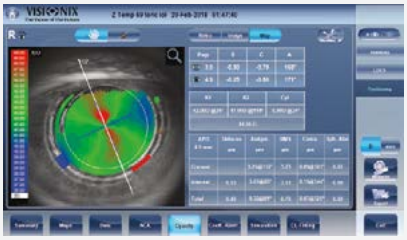
Detect, evaluate and monitor corneal opacities and pathologies such as keratoconus

Topography maps and Keratoconus probability index (KPI)

Data summary

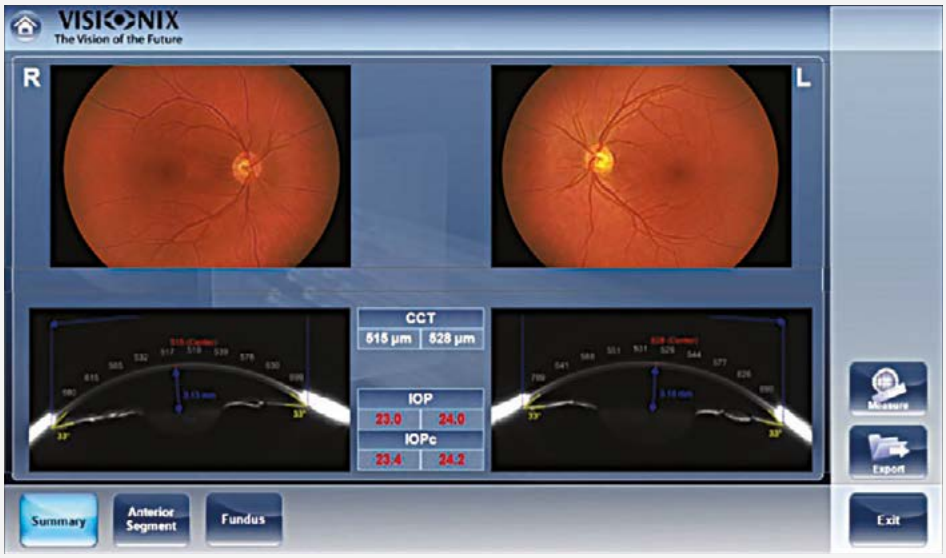
Detect, evaluate and monitor corneal opacities

Retroillumination to examine lens opacities

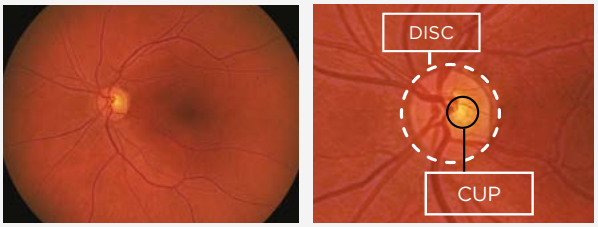


Toric IOL position linked with anterior corneal topography

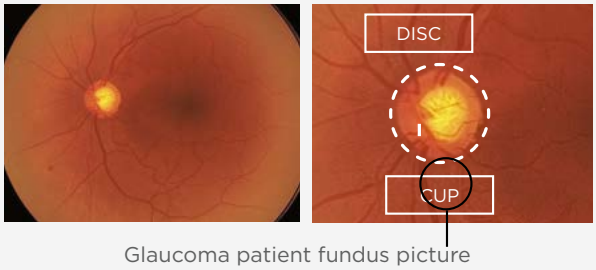
Capture and monitor glaucoma



Glaucoma summary screen with iridocorneal angle measurement, IOP, IOPc

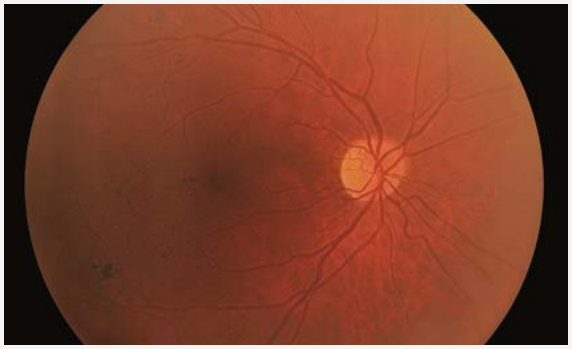


Healthy eye fundus picture



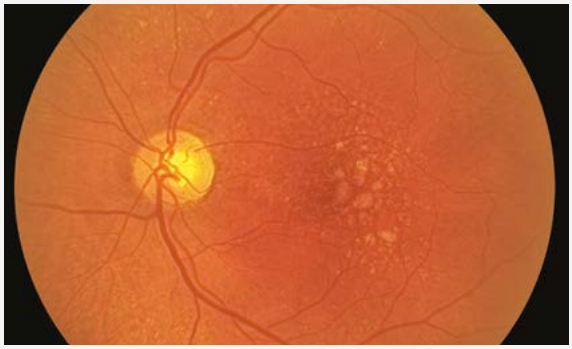
Glaucoma patient fundus picture

Capture and Monitor Diabetic retinopathy



Diabetic retinopathy fundus picture

Capture and Monitor Age-related Macular Degeneration



Macular degeneration

Image Courtesy of Dr. J.P. Rozenbaum
Sartrouville - FR

Visionix combo screening and refraction system

Increased level of eyecare without delay

Combine VX 650 with Eye Refract to reimagine the eye care experience for both patient and provider.

EYE REFRACT COMPUTER-ASSISTED BINOCULAR REFRACTION

The second generation of Eye Refract utilizes unique innovative technology that performs an automatic binocular refraction powered by computer-generated algorithms.

VX 650 AUTOMATED ANTERIOR AND POSTERIOR SCREENING

The VX 650 offers anterior and posterior segment screening in a single device at the touch of a button.

- Accurate, comprehensive results
- Automated anterior and posterior screening
- Reduces overall patient movement
- Reduces the anxiety of adding a new location
- Small footprint within 6.5ft^2

Technical specifications

DIMENSIONS:

WIDTH	660 mm/2 ft 2 in
DEPTH	420 mm/1 ft 4 in
HEIGHT	560 mm/1 ft 8 in
WEIGHT	32 Kg/70.5 lbs

Pachymetry, IC (iridocorneal) angle and pupillometry	
Method	Static horizontal scan with the Scheimpflug camera
Pachymeter measuring range	150-1300 m
Pachymetry resolution	+/- 10m
IC angle measuring range	0°-60°
IC resolution	0.1°
Pupil illumination	Blue light 455 nm
Retroillumination	
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 0.75 mm to more than 10 mm
Measurement range	From 37.5 D to 56 D
Repeatability	0.03 mm
Method	Placido rings
Tonometer	
Measurement range	Calibrated range 7 - 44 mmHg
General	
Alignment	XYZ automatic
Display	15.6” . TFT screen Multi-touch screen
Observation area	ø 14 mm
Medical device directive	EC MDD 93/42/EC modified by directive 2007/47/EC
Output	RS232 / USB / VGA / LAN / HDMI / DP
Power mapping and refraction	
Spherical power range	-20D to +20D
Cylinder power range	0D to 38D
Axis	0 to 180°
Measuring area	Min. ø 2mm - Max. 7 mm (3zones)
Number of measuring points	1,400 points for 7 mm pupil at 0D
Acquisition time	0.2 sec
Method	Shack-Hartmann
Fundus	
Angle of view	45°
Resolution	6 Mpix
Optical resolution	> 60 lines/mm

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VISIONIX US
160 Eisenhower Lane North, Lombard, IL 60148
US: +1 (800) 729-1959
Canada: +1 (905) 760-2420
contact.us@visionix.com

www.visionix.com/us