



VISIONIX
The Vision of the Future

VX120
Diagnostic

One-Touch High-end Refraction, Vision Analysis, and
Diagnosis of the Anterior Chamber

VX120

The VX 120 can be set up in a network to integrate with your patient management software and provide a variety of communication options to optimize your work flow.

- Review results from any supported device (tablet, smartphone, etc.)
- Print directly from your local or network printer
- Customize your reports
- Synchronize data, graphs, and maps for any examination
- Communication enabled with other instruments

WEBSERVICE



CUSTOMIZABLE REPORTS



VX REFRACTION LINE



VX 24
Chart Display



VX BOX
VSXlink



VX 40
Lensmeter



VX 55
Phoropter



OFFLINE VERSION



PATIENT MANAGEMENT SOFTWARE



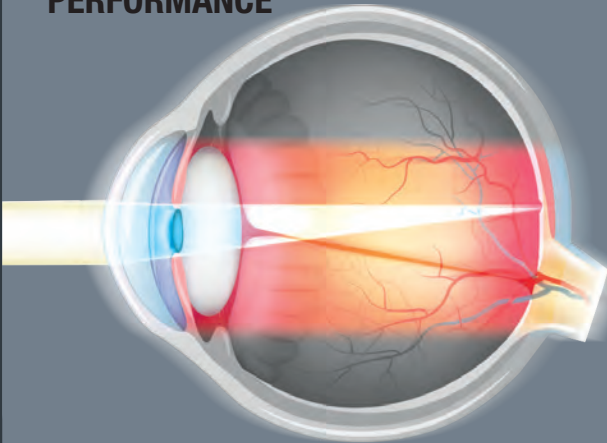
EHR/EMR

VX120

The VX 120 is a unique, complete, and fully automatic diagnostic screening device. The VX 120 features variations of refraction, screening for glaucoma, cataracts, corneal pathologies such as keratoconus, and fitting of contact lenses with integrated topography.

The combination of technologies found in the VX 120 are unique (aberrometry, tonometry, topography, Scheimpflug camera, etc.) With full integration in mind, the VX 120 is designed to be able to export measurements and findings and archive your data using WiFi, USB key, office networks, etc.

REFRACTION AND VISUAL PERFORMANCE

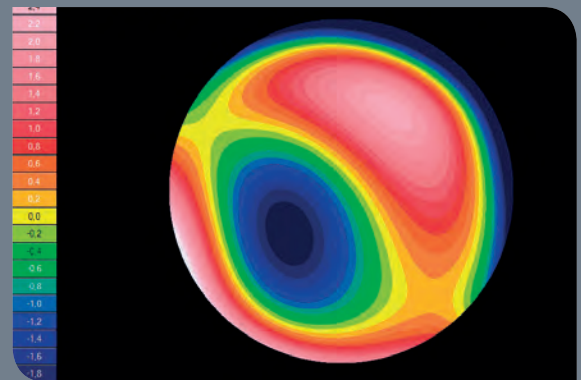


- > Extremely precise refraction (cylinder and axis)
- > Refraction on small pupils 1.2 / 1.4 mm.
- > 1200 points of analysis for a pupil of 7 mm
- > Measurement of daytime vision and nighttime vision
- > Analysis of low-order and high-order optical aberrations

TECHNOLOGY: Analysis of the wavefront with the Shack-Hartmann sensor.



Simulations of visual acuity

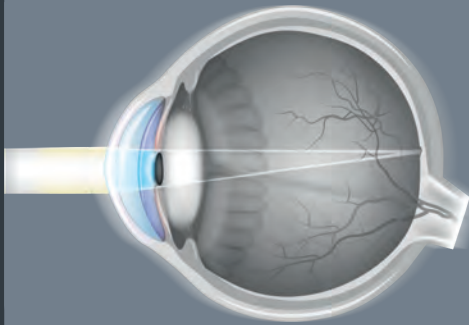


Wavefront maps



Analysis of aberrations with Zernike coefficients

CORNEA ANALYSIS

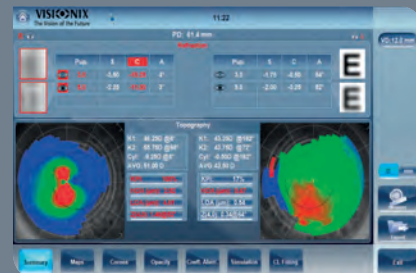


- > Contact lenses and fitting
- > Screening keratoconus and corneal pathologies
- > Pachymetry: measuring the thickness of the cornea

TECHNOLOGY: Analysis of the wavefront using the Shack-Hartmann sensor, Placido disk, Scheimpflug camera.



Topography

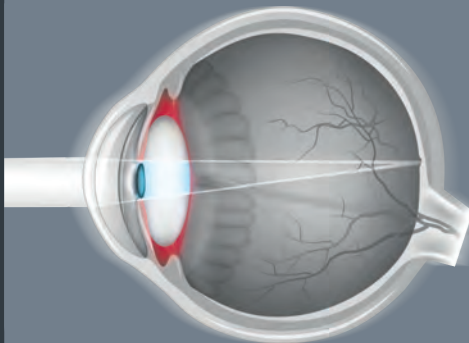


Keratoconus probability



Placido disk - Measurement of corneal curvature radius

CATARACT



- > Screening for loss of contrast and penetration of light
- > Effect of the opacity on the quality of vision

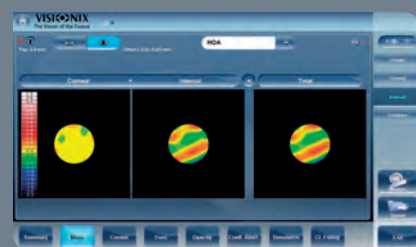
TECHNOLOGY: Retro illumination, Scheimpflug camera, Shack-Hartmann matrix.



Opacity monitor

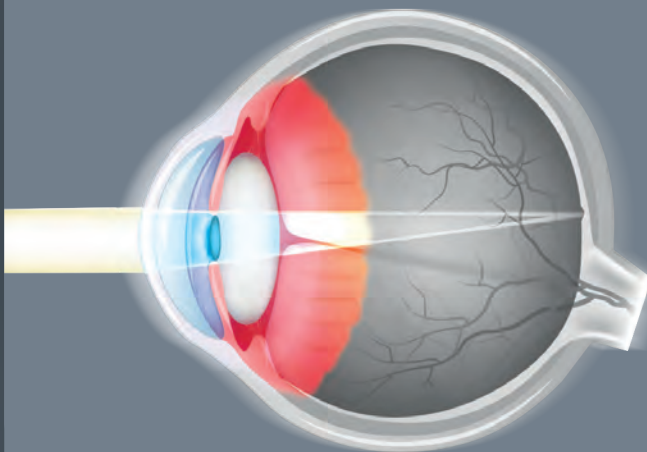


Comparison of opacities



Analysis of aberrations with dissociation between corneal and ocular aberration

GLAUCOMA



- > Measurement of IOP (intra ocular pressure measured in mm/Hg)
- > Our measurement takes into account the thickness of the cornea to provide a corrected IOPc index (too thin a cornea will sub-evaluate the IOP and vice versa)
- > Display iridocorneal angles and the height of the anterior chamber

TECHNOLOGY: Scheimpflug camera and non contact tonometer with soft air puff.



Non Contact Tonometer



Anterior chamber analysis



Tonometry

Technical data

General	
Dimensions	W 320 mm x D 555 mm x H 540 mm W 12.59 in. x D 21.8 in x H 21.25
Weight	27 kg / 59.5 lbs.
Working distance	91 mm
Alignment	XYZ automatic
Display	10,1" (1 024 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 directive	CE MDD 93/42/CE modified by directive 2007/47/CE
Output	RS232 / USB / VGA / LAN
AR & power mapping (Wavefront)	
Spherical power range	-20D to +20D
Cylinder power range	0D to + 8D
Axis	0 to 180°
Measuring area	Min. ø 2 mm - Max. 7 mm (3 areas)
Number of measuring points	1,500 points
Acquisition time.	0.2 sec
Method	Shack-Hartmann

Fully automated

- Fully automatic 3D and R/L eye alignments
- 7 types of automatic simultaneous measurements
- Operator independent measurements
- High reproducibility of measurements

Automatic alignment and measurement which allows

- High reliability for measurements
- Significant time savings
- Optimal comfort based on ergonomic design

Additional customers benefits

- Quick detection of refraction, higher order aberrations, and warning indications for measurements outside of normal parameters
- Easily transfer patient measurements to the doctor for exam
- A refined and highly accurate refraction due to advanced technology and added features
- Delegation of tasks
- As part of examinations of refraction and detection of high-order aberrations, possible suspicion of pathologies

Video of the product :

<http://www.visionix-vx120.com>



Pachymetry, IC angle and pupillometry

Method	Scheimpflug
Pachymetry range	150-1300 µm
Pachymetry resolution	+/- 10 microns
IC angle range	0°-60°
IC resolution	0.1°
Pupil illumination	Blue light 455 nm

Retro illumination

Corneal topography

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
Diopters measured field	From 1 to 100
Repeatability	0.02 mm
Method	Placido rings

Tonometer

Measurement range	1 mmHg to 50 mmHg
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Table of features / versions available

VX 100 Diagnostic	ARK		TOPO		
VX 118 Diagnostic	ARK	WF	TOPO	ACA*	
VX 220 RIC Analyzer			TOPO	ACA*	TONO
VX 120 Diagnostic	ARK	WF	TOPO	ACA*	TONO

* ACHA: Anterior Chamber Analysis

