

VX120+

READY FOR COMMUNICATION

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

VX REFRACTION LINE



VX 24
Chart Display

CUSTOMIZABLE REPORTS



VX BOX II
VSDLink

PATIENT MANAGEMENT SOFTWARE



VX 40
Lensmeter



WEBSERVICE



VX 55
Phoropter



TECHNICAL SPECIFICATIONS



Height	570 mm
Width	312 mm
Depth	530 mm
Weight	25 kg
Voltage	100-240 VAC, 50/60 Hz, 300 W

TABLE OF FEATURES / VERSIONS AVAILABLE

VX 110 Diagnostic	ARK	WF	TOPO		
VX 118 Diagnostic	ARK	WF	TOPO	ACA*	
VX 220 IC Analyzer		WF***	TOPO	ACA*	TONO
VX 120+ Diagnostic	ARK	WF	TOPO	ACA*	TONO
VX 130+ Diagnostic	ARK	WF	TOPO	ACA**	TONO

* ACA : Anterior chamber analysis

** ACA : Total surface analysis

*** WF : corneal aberrometry

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

GENERAL

Alignment	• XYZ automatic
Display	• 10.1" (1 024 x 600) 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

POWER MAPPING AND REFRACTION

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 zones)
Number of measuring points	• 1,300 points
Acquisition time	• 0.2 sec
Method	• Shack-Hartmann

PACHYMETRY, IC (IRIDOCORNEAL) 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

RETROILLUMINATION

CORNEAL TOPOGRAPHY BY SPECULAR REFLECTION

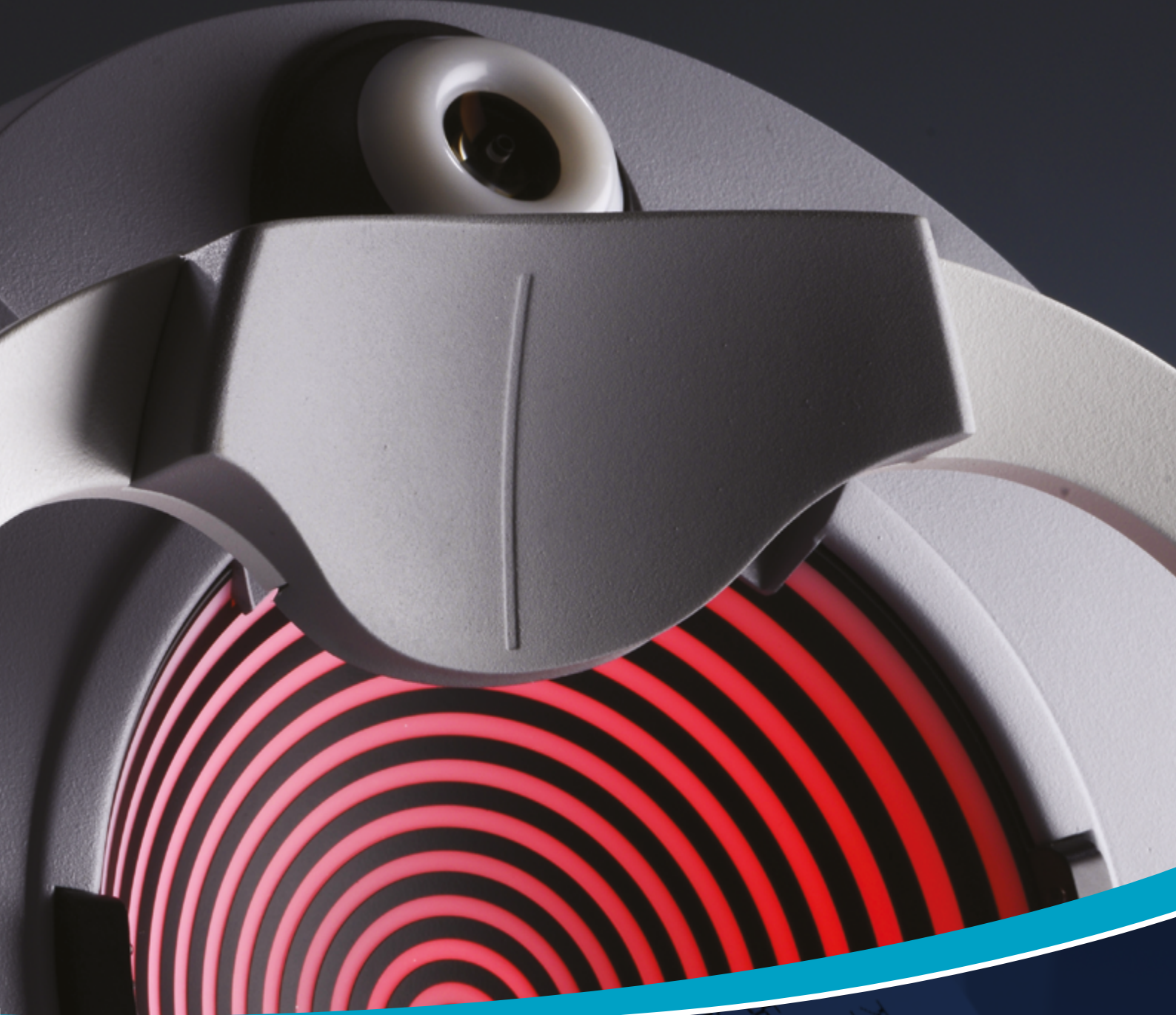
Number of rings	• 24
Number of measuring points	• 6,144
Number of points analyzed	• More than 100,000
Diameter of covered corneal area at 43D	• From 0.75 mm to more than 10 mm
Measurement range	• From 37.5 D to 56 D
Repeatability	• 0.02 D
Method	• Placido rings

TONOMETER

Measurement range	• 7 mmHg to 44 mmHg
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Specific website
<http://www.visionix-vx120.com>



VX120+
Diagnostic

ONE-TOUCH HIGH-END REFRACTION
VISION ANALYSIS, AND DIAGNOSIS OF
THE ANTERIOR CHAMBER

VISIONIX
The Vision of the Future

VX120+

UNIQUE DIAGNOSTIC DEVICE FOR THE ANTERIOR CHAMBER, SCREENING AND ANALYSIS OF THE VISION

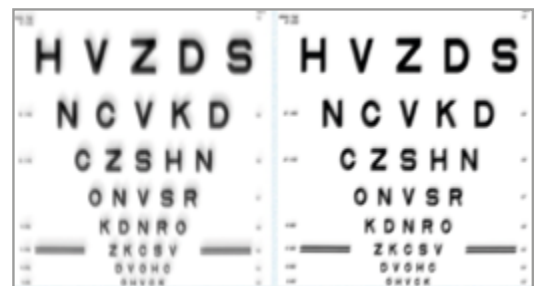
Make the difference thanks to the VX120+, complete and fully automatic diagnostic screening device. Complete refraction, differentiate between day and night vision needs, glaucoma, cataract, keratoconus identification and monitoring , fitting of contact lenses.

COMPLETE REFRACTION DIFFERENTIATE BETWEEN DAY AND NIGHT VISION NEEDS

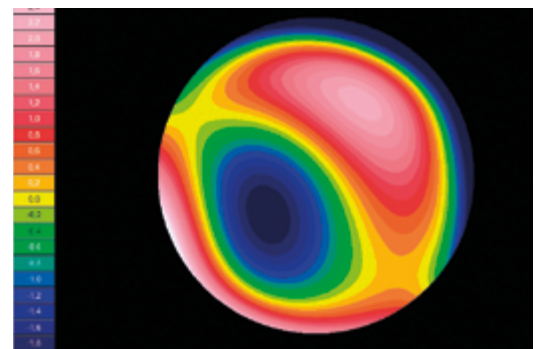
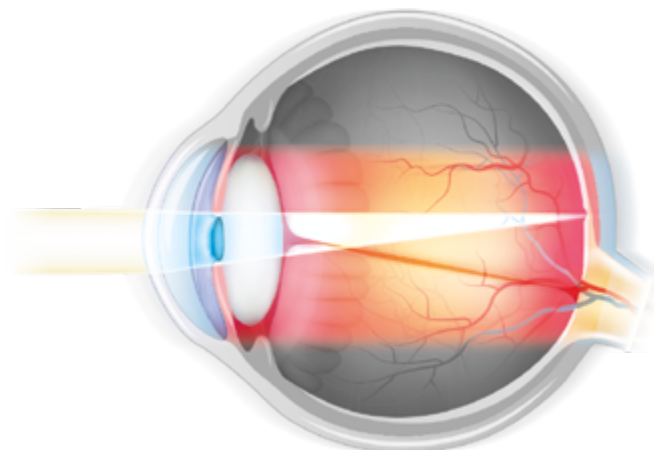
- > Objective day and night refraction measurements
- > 1300 points analyzed for a 7-mm diameter pupil
- > Objective refraction under mesopic and photopic conditions
- > Measures lower-order and higher-order aberrations
- > Access visual acuity and quality of vision on a pupil as small as 1.2 mm
- > MTF curve

TECHNOLOGY :

Shack-Hartmann wavefront analysis



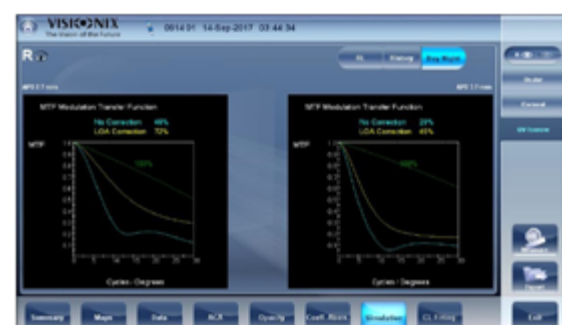
Simulations of visual acuity



Shack-Hartmann wavefront maps measure lower-order and higher-order aberrations



Main screen



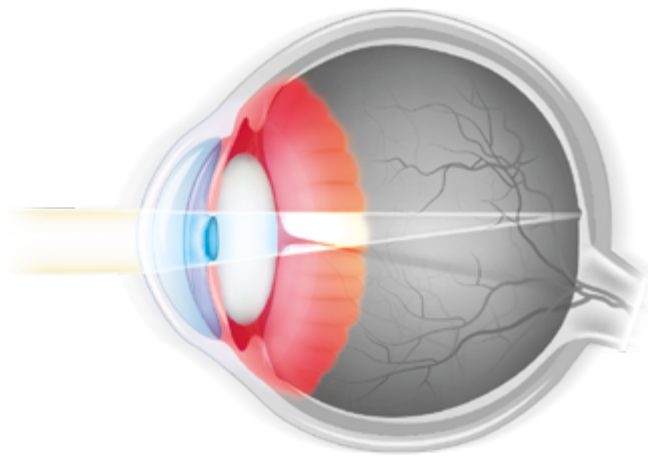
Objective day and night refraction measurements
Analysis of aberrations with Zernike coefficients

GLAUCOMA IDENTIFICATION AND MONITORING

- > Anterior chamber analysis
- > Automatic measurement of iridocorneal angles
- > Measurement of anterior chamber volume
- > Measurement of anterior chamber depth
- > Measurement of IOP (intraocular pressure)
- > Measurement of corneal thickness
- > Corrected IOP as a function of corneal thickness

TECHNOLOGY :

Scheimpflug imaging and non contact tonometer with soft air puff.



Anterior chamber analysis



Main screen



Tonometry analysis : Corrected IOP as a function of corneal thickness

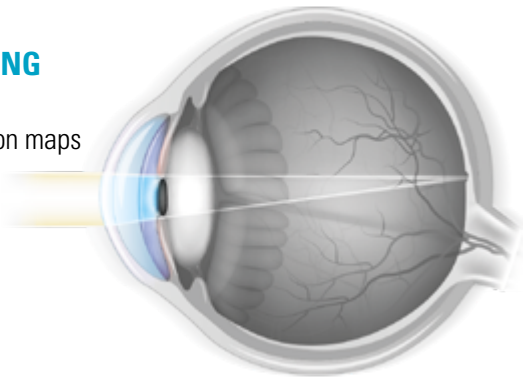
KERATOCONUS IDENTIFICATION AND MONITORING

Topography maps

- > Axial, tangential elevation and refraction maps
- > Keratoconus probability index (KPI)
- > Keratoconus monitoring
- > Internal astigmatism measurement
- > Eccentricity and meridian tables
- > Corneal aberrometry

TECHNOLOGY :

Wavefront analysis with Shack-Hartmann technology , Placido rings, Scheimpflug imaging



Meridian Table



Keratoconus probability



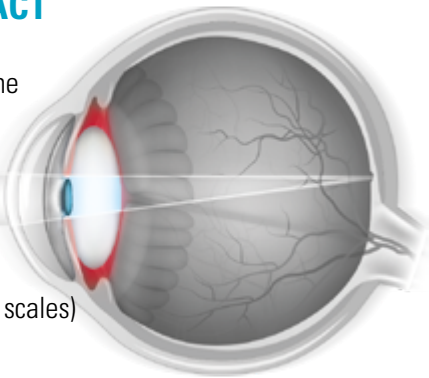
Main screen

IDENTIFICATION OF A CATARACT

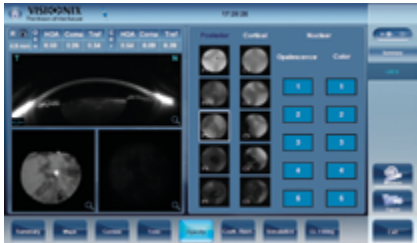
- > Visualization of crystalline opacities
- > Analysis of wavefront aberrations, with the ability to separate corneal and lenticular/internal aberrations
- > Internal astigmatism measurement
- > Kappa angle for IOL centering
- > Z.4.0 value for aspheric implant
- > Lens opacity classification (LOCS II and III scales)

TECHNOLOGY :

Scheimpflug imaging , Retroillumination, Shack-Hartmann, Placido rings



Opacity monitor



Visualization of crystalline opacities and LOCS scales



Analysis of wavefront aberrations, with the separation between corneal and lenticular/internal aberrations



Main screen