

VX 120+
Diagnostic

Take care of your client's vision health
**MAKE A DIFFERENCE AND
DEMONSTRATE YOUR SKILLS**

VISIONIX
The Vision of the Future

VX120+

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

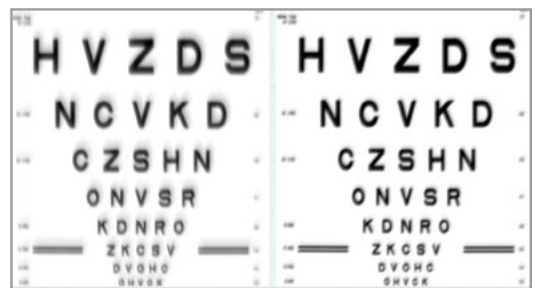
Make the difference thanks to the VX120+, complete and fully automatic diagnostic screening device. Complete refraction, differentiate between day and night vision needs, glaucoma, cataract, keratoconus identification and monitoring, fitting of contact lenses.

COMPLETE REFRACTION DIFFERENTIATE BETWEEN DAY AND NIGHT VISION NEEDS

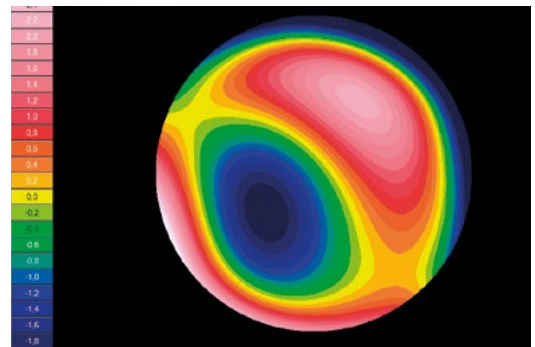
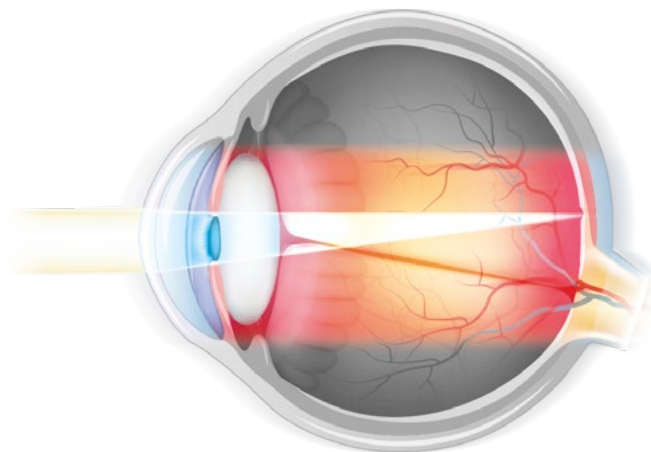
- > Objective day and night refraction measurements
- > 1300 points analyzed for a 7-mm diameter pupil
- > Objective refraction under mesopic and photopic conditions
- > Measures lower-order and higher-order aberrations
- > Access visual acuity and quality of vision on a pupil as small as 1.2 mm
- >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

TECHNOLOGY :

Shack-Hartmann wavefront analysis



Simulations of visual acuity



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



Main screen



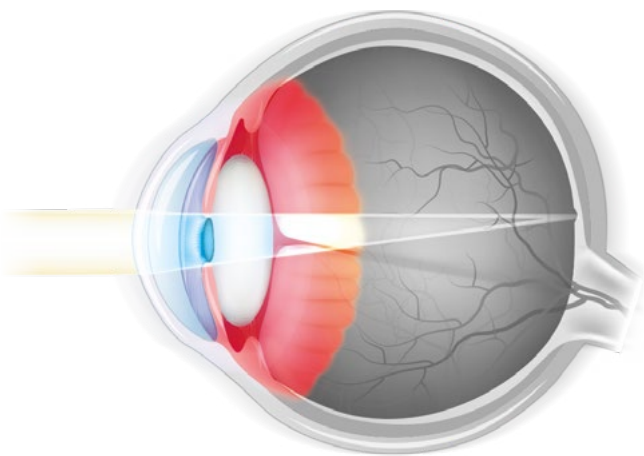
Objective day and night refraction measurements
Analysis of aberrations with Zernike coefficients

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

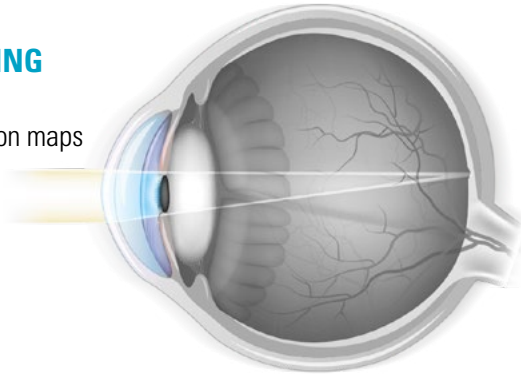


Tonometry analysis : Corrected IOP as a function of corneal thickness

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



Meridian Table

TECHNOLOGY :

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



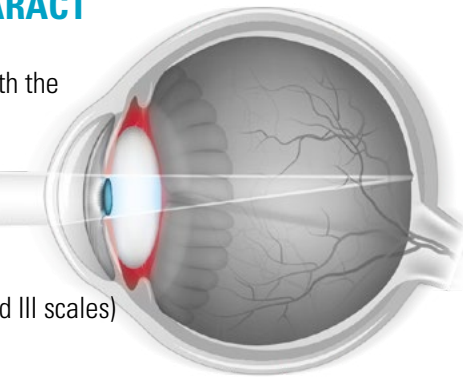
Keratoconus probability



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)



Opacity monitor

TECHNOLOGY :

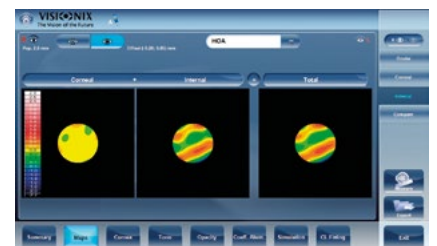
Scheimpflug imaging , Retroillumination, Shack-Hartmann, Placido rings



Visualization of crystalline opacities and LOCS scales



Main screen



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

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



VX BOX II
VSXlink



VX 40
Lensmeter



VX 55
Phoropter



Wi Fi



VX120+
Diagnostic

CUSTOMIZABLE REPORTS



PATIENT MANAGEMENT SOFTWARE



WEBSERVICE



VX 120+

Diagnostic

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 |
|--------------------------|---------------------|



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