



VX 120

Wavefront Diagnostic

ONE-TOUCH COMPREHENSIVE
VISUAL ASSESSMENT IN UNDER
90 SECONDS.

VISIONIX
The Vision of the Future

VX120

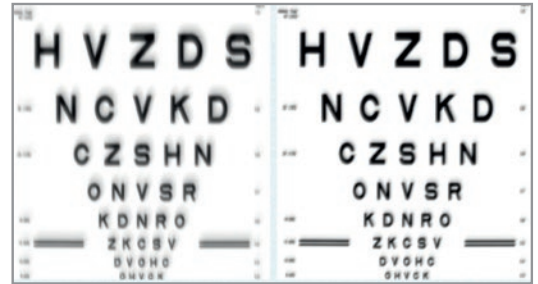
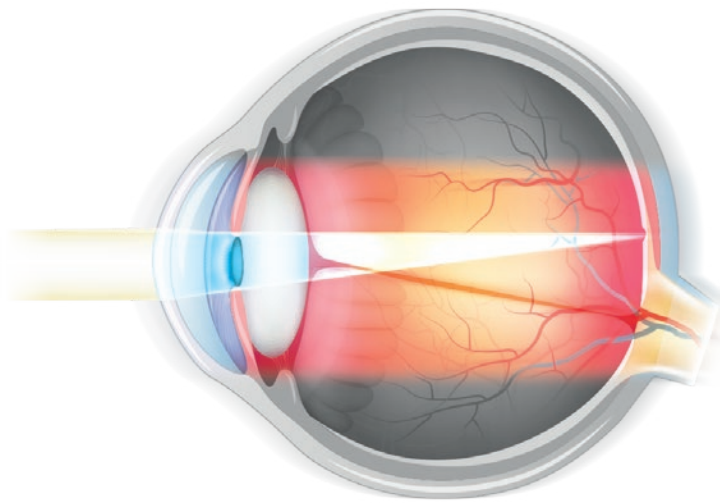
A GAME CHANGING WAVEFRONT DIAGNOSTIC DEVICE FOR COMPREHENSIVE VISUAL ASSESSMENT

REFRACTION AND VISUAL PERFORMANCE

- > Extremely precise refraction (cylinder and axis).
- > Refraction on small pupils 1.2 / 1.4 mm.
- > 1500 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:

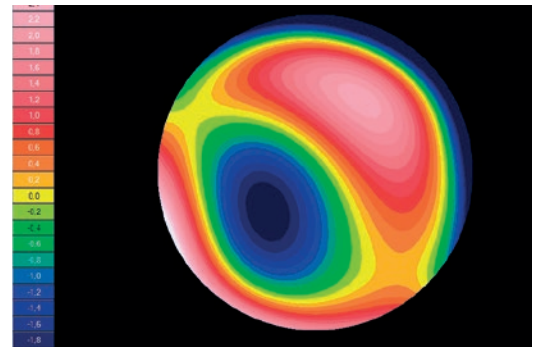
Analysis of the wavefront with the Shack-Hartmann sensor.



Simulations of visual acuity

"You haven't experienced the best until you've tried the visionix vx 120. At Beverly Hills Optometry, we are proud to offer this state-of-the-art technology to our patients who seek premier eye care. The visionix vx 120 performs multiple diagnostic tests then presents the results with a beautiful display that provides a powerful teaching tool and visual for patient education. What a great device to showcase the merger between eye care and tech."

Dr. Kambiz Silani, Chief Optometrist, Beverly Hills Optometry



Wavefront maps



Main screen



Analysis of aberrations with Zernike coefficients

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 in the industry. (aberrometry, tonometry, topography, Scheimpflug imaging, 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, and EMR.

GLAUCOMA

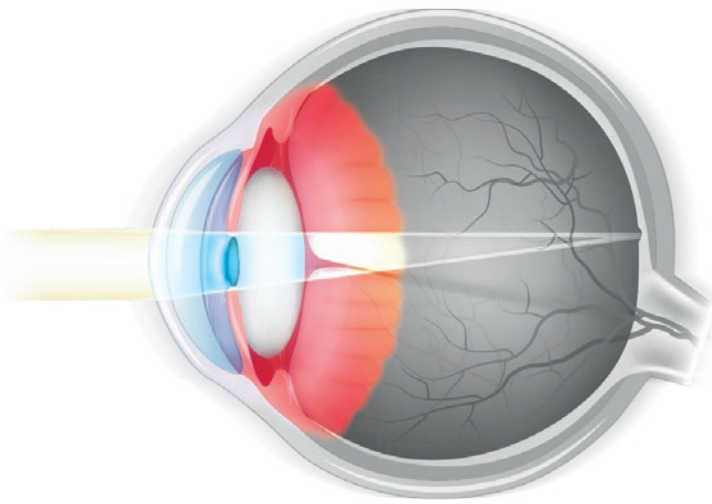
- > Measurement of IOP (intra ocular pressure measured in mm/Hg).
- > Our measurement takes into account the thickness of the cornea to provide a corrected IOPc index (too thin a cornea will sub-evaluate the IOP and vice versa).
- > Display iridocorneal angles and the height of the anterior chamber.

TECHNOLOGY:

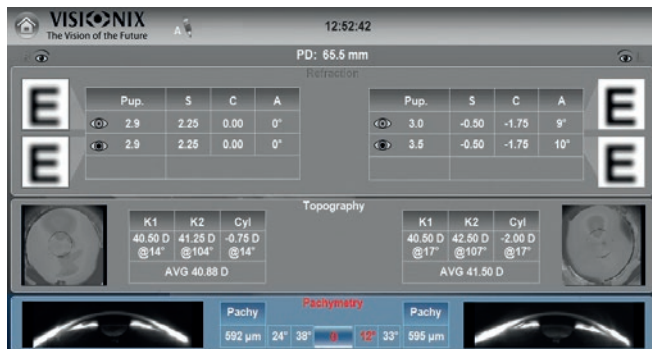
Scheimpflug camera and non contact tonometer with soft air puff.



Non Contact Tonometer (Featured on the VX120)



Anterior chamber analysis (Featured on the VX118 and VX120)



Main screen



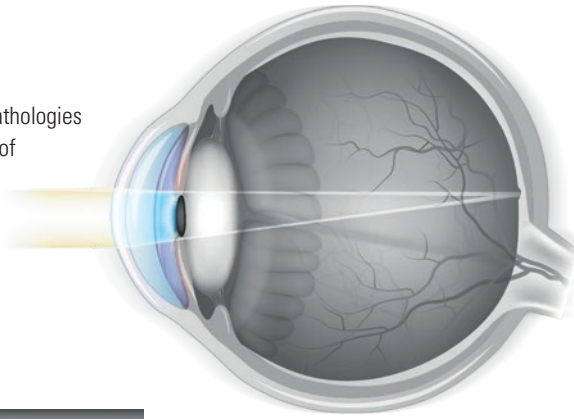
Tonometry (Featured on the VX120)

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.



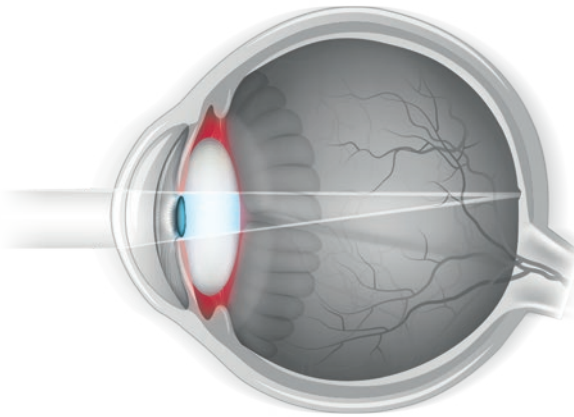
Main screen

CATARACT

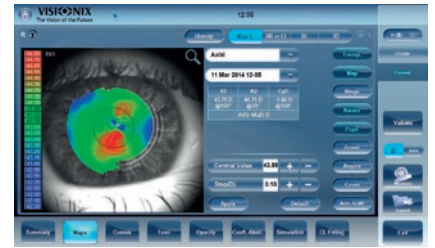
- > Screening for loss of contrast and penetration of light
- > Effect of the opacity on the quality of vision

TECHNOLOGY

Retro illumination, Scheimpflug camera, Shack-Hartmann matrix.



Main screen



Topography



Keratoconus probability



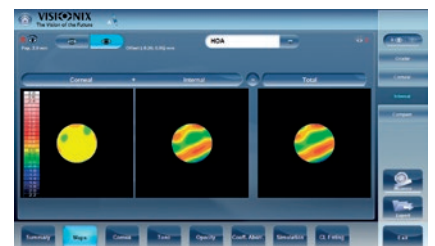
Placido disk - Measurement of corneal curvature radius



Opacity monitor



Comparison of opacities



Analysis of aberrations with dissociation between corneal and ocular aberration

VX120

READY FOR THE CONNECTED PRACTICE

The VX 120 integrates with your patient management software and provides a variety of communication options to optimize your work flow. With it you can:

- > 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
- > Communicate with other instruments

VX REFRACTION SUITE

CUSTOMIZABLE REPORTS





VX 120

Wavefront Diagnostic

TECHNICAL DATA

GENERAL

Working distance91 mm
 AlignmentXYZ automatic
 Display10,1" (1 024 x 600) TFT screen Multi-touch screen
 Observation areaø 14 mm
 Printer.....Integrated black and white - external color available
 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 range0D to + 8D
 Axis.....0 to 180°
 Measuring areaMin. ø 2 mm - Max. 7 mm (3 areas)
 Number of measuring points1,500 points analysis points for pupil of 7 mm
 Acquisition time0.2 sec
 MethodShack-Hartmann

Height	540 mm (21.25 in)
Width	320 mm (12.59 in)
Depth	555 mm (21.8 in)
Weight	27 kg (59.5 lbs)
Voltage	100/120, 220/240 V CA, 50/60 Hz, 250 W

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 and repeatability of measurements
- Significant time savings (complete test sequence in under 90 seconds)
- 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



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A company of Luneau Technology
 USA GERMANY SWITZERLAND UNITED KINGDOM

PACHYMETRY, IC ANGLE AND PUPILLOMETRY

Method • Scheimpflug

RETRO ILLUMINATION

Corneal topography Number of rings.....24
 Number of measuring points6,144
 Number of points analyzedMore than 100.000
 Diameter of covered corneal area at 43DFrom 0.33 mm to more than 10 mm
 Diopters measured fieldFrom 1 to 100
 MethodPlacido rings

TONOMETER

Measurement range.....1 mmHg to 50 mmHg
 Pachymetry range.....150-1300 µm
 Pachymetry resolution.....+/- 10 microns
 IC angle range.....0°-60°
 IC resolution0.1°
 Pupil illuminationBlue light 455 nm

PRODUCT LINE FEATURES

	VX 110 Diagnostic	VX 11B Diagnostic	VX 120 Diagnostic
Wavefront Technology	•	•	•
Autorefractor / Keratometer	•	•	•
Automated Measurement	•	•	•
Corneal Topography	•	•	•
Corneal Aberrometry	•	•	•
Ocular Aberrometry	•	•	•
Retro-Illumination	•	•	•
Anterior Chamber Analysis		•	•
Pachymetry		•	•
Scheimpflug Imaging		•	•
Non-contact Tonometry			•

