VISIONIX

The Vision of the Future

VX 118

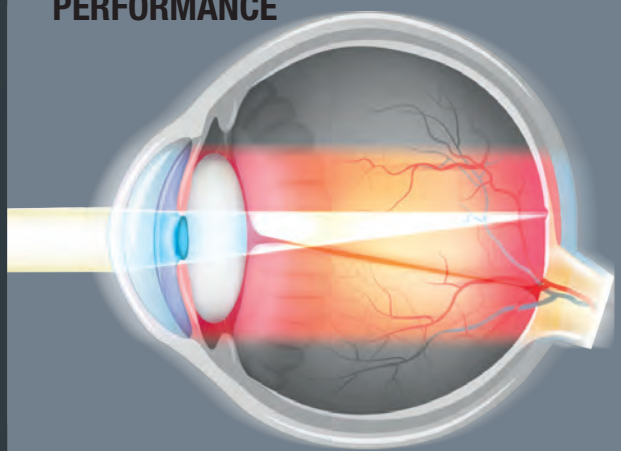
Diagnostic

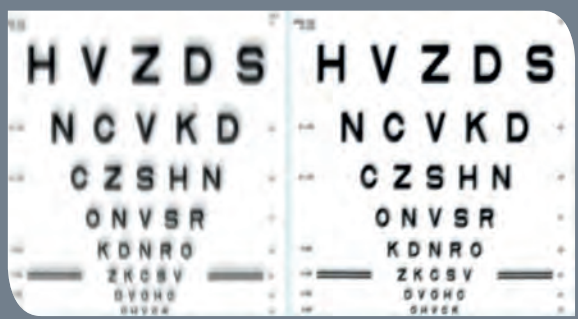
One-Touch High-end Refraction, Vision Analysis, Higher Order Aberrations and Topography

VX118

The VX 118 is a unique, complete, and fully automatic refraction and topography device.
The VX 118 features variations of refraction, pathologies such as keratoconus, and fitting of contact lenses with integrated topography.
Top of the line non-contact pachymetry and analysis of the anterior chamber by the bias of a Scheimpflug camera." With full integration in mind, the VX 118 is designed to be able to export measurements and findings and archive your data using Wi-Fi, USB key, office networks, etc.

REFRACTION AND VISUAL PERFORMANCE



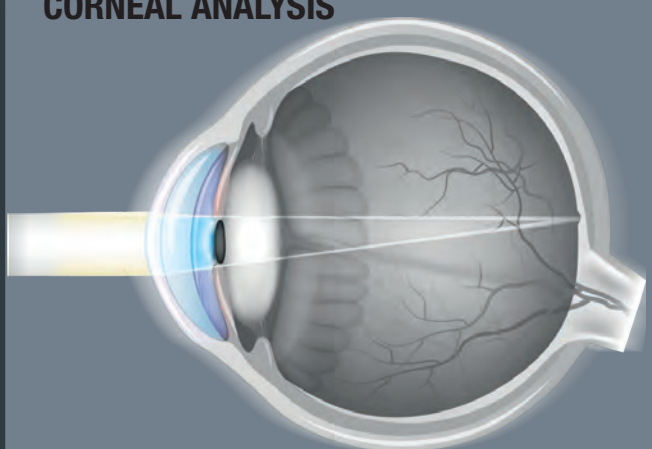


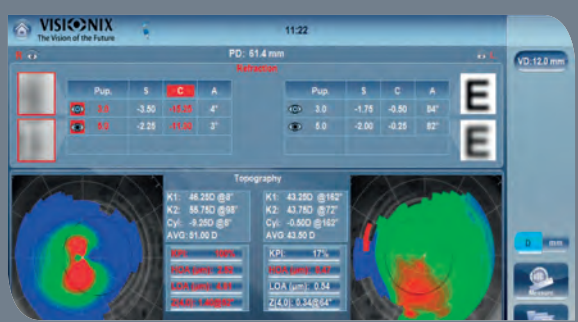
Simulations of visual acuity

> Extremely precise refraction (cylinder and axis)
> Refraction on small pupils 1.2 / 1.4 mm.
> 1400 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.

CORNEAL ANALYSIS





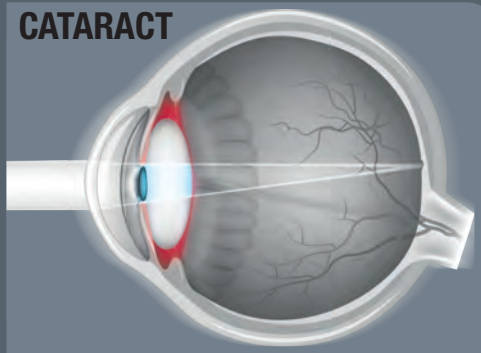
Topography

Placido disk - Measurement of corneal curvature radius

> Contact lenses and fitting
> Screening keratoconus and corneal pathologies

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

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

WEBSERVICE

VX REFRACTION LINE

VX 24

VX BOX

VX 40

VX 55

VX 118

CUSTOMIZABLE REPORTS

OFFLINE VERSION

PATIENT MANAGEMENT SOFTWARE

EHR/EMR

Technical data

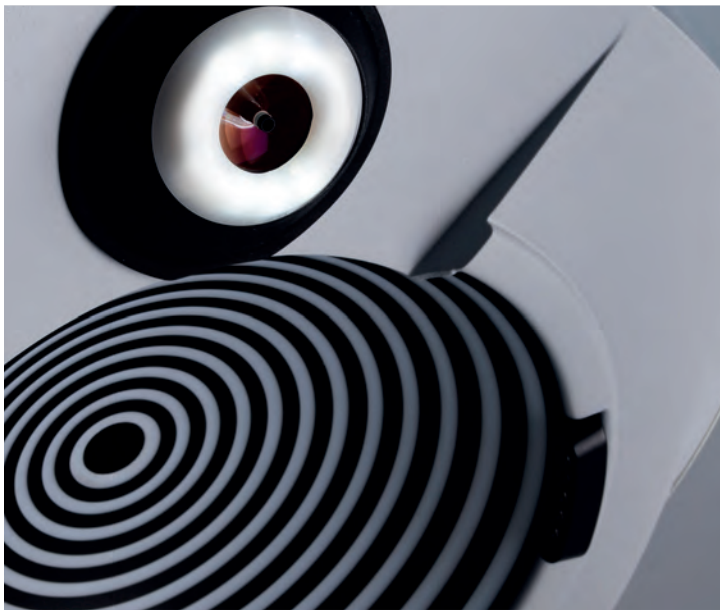
General	
Dimensions	W 320 mm x D 555 mm x H 540 mm W 12.59 in. x D 21.8 in x H 21.25
Weight	27 kg / 59.5 lbs.
Working distance	91 mm
Alignment	XYZ automatic
Display	10,1" (1 024 x 600) TFT screen Multi-touch screen
Observation area	ø 14 mm
Printer	Integrated black and white - external color available
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

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



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