



VX120+

Diagnostic

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

optohellas
Worldwide Representation Platform

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

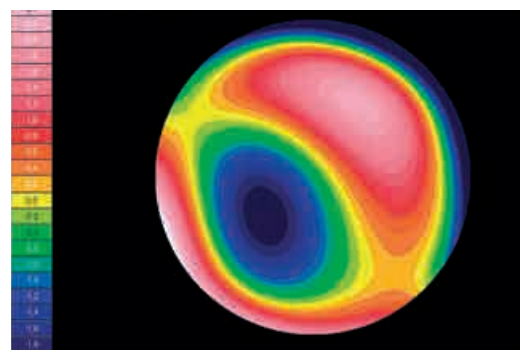
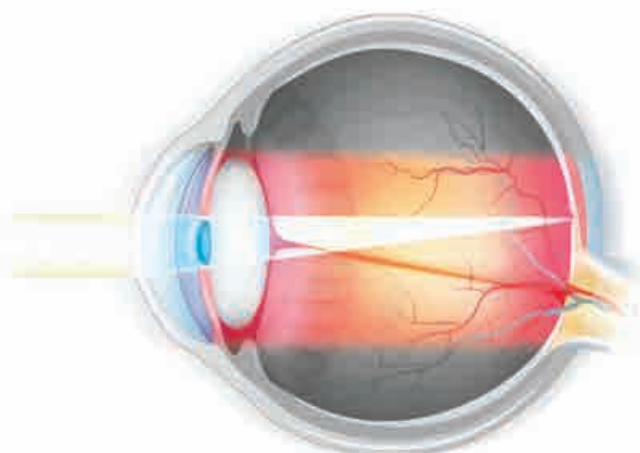
- > Objective day and night refraction measurements
- > 1 400 points analyzed for a 7-mm diameter pupil
- > Objective refraction under mesopic and photopic conditions
- > Measures lower-order and higher-order aberrations
- > Access visual acuity and quality of vision on a pupil as small as 1.2 mm
- > MTF curve

TECHNOLOGY :

Shack-Hartmann wavefront analysis



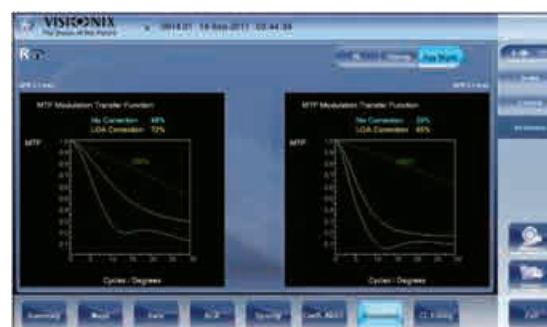
Simulations of visual acuity



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



Main screen



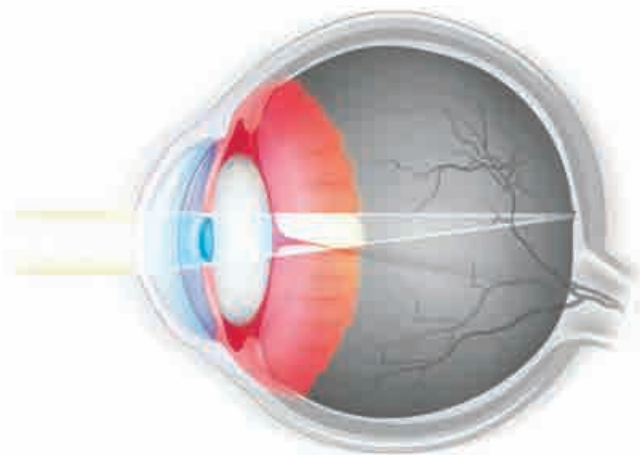
Objective day and night refraction measurements
Analysis of aberrations with Zernike coefficients

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

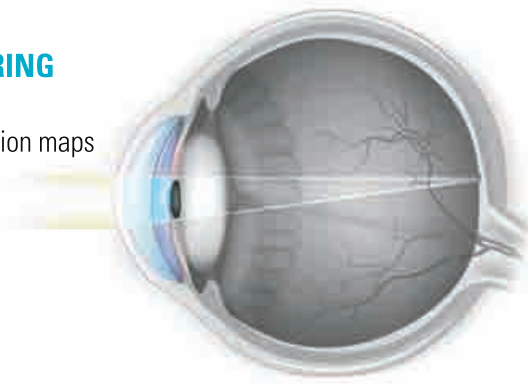


Tonometry analysis : Corrected IOP as a function of corneal thickness

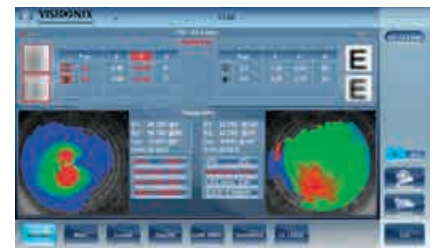
KERATOCONUS IDENTIFICATION AND MONITORING

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



Keratoconus probability

TECHNOLOGY :

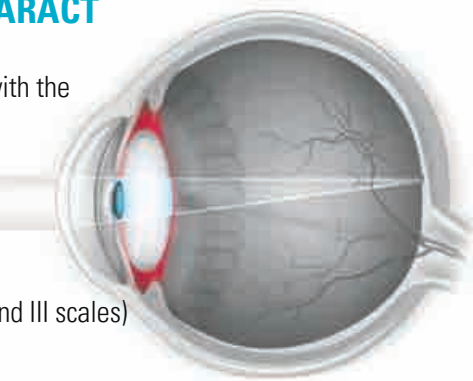
Wavefront analysis with Shack-Hartmann technology , Placido rings, Scheimpflug imaging



Main screen

IDENTIFICATION OF A CATARACT

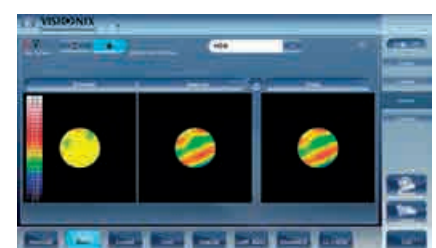
- > Visualization of crystalline opacities
- > Analysis of wavefront aberrations, with the ability to separate corneal and lenticular/internal aberrations
- > Internal astigmatism measurement
- > Kappa angle for IOL centering
- > Z.4.0 value for aspheric implant
- > Lens opacity classification (LOCS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



Opacity monitor



Visualization of crystalline opacities and LOCS scales



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



Main screen

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 22
ChartDisplay

CUSTOMIZABLE REPORTS



VX BOX
VSxTalk

PATIENT MANAGEMENT SOFTWARE



EHR/EMR



VX 120+
Diagnostic

WEBSERVICE



VX 40
Lensmeter





VX120+

Diagnostic

Height	570 mm (22.44 in.)
Width	312 mm (11.28 in.)
Depth	530 mm (20.87 in.)
Weight	25 kg (55.12 lbs)
Voltage	100-240 VAC, 50/60 Hz, 300 W
Ref.	30200000-12

TECHNICAL SPECIFICATIONS

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	1,400 points
Acquisition time	0.2 sec

PACHYMETRY, IC (IRIDOCORNEAL) ANGLE AND PUPILLOMETRY	
Method	Static horizontal scan with the Scheimpflug camera
Pachymeter measuring range	150-1300 µm
Pachymeter resolution	+/- 10 µm
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	0.03mm
Method	Placido rings
TONOMETER	
Measurement range	7 mmHg to 44 mmHg

	VISIONIX SCREENING RANGE							
	VX100	VX110	VX118	VX220	VX120+	VX120+	VX130+	VX650
AR-K based WF								
AR-K	✓	✓	✓	✗	✓	✓	✓	✓
Ocular Aberro.	✗	✓	✓	✗	✓	✓	✓	✓
Retro	✓	✓	✓	✓	✓	✓	✓	✓
Corneal Topograph	✓	✓	✓	✓	✓	✓	✓	✓
Non Contact Tonometer	✗	✗	✗	✓	✓	✓	✓	✓
Scheimpflug Camera								
Pachymetry	✗	✗	✓	✓	✓	✓	✓	✓
Full Eye Tracking	✓	✓	✓	✓	✓	✓	✓	✓
Back surface of the cornea	✗	✗	✗	✗	✗	✗	✓	✓
Remote Access	✓	✓	✓	✓	✓	✓	✓	✓
Offline/Webservice	✓	✓	✓	✓	✓	✓	✓	✓
Colour camera	✗	✗	✗	✗	✗	✓	✗	✓
Dry eye								
NBUT	✗	✗	✗	✗	✗	✓	✗	✓
Efron classification	✗	✗	✗	✗	✗	✓	✗	✓
Tear meniscus value	✗	✗	✗	✗	✗	✓	✗	✓
Fundus Camera	✗	✗	✗	✗	✗	✗	✗	✓