

**VISIONIX**  
The Vision of Future

# Vx120

The diagnostic device

## Vx120

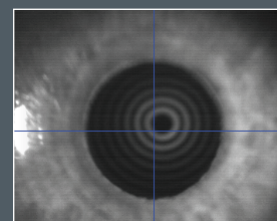
The new diagnostic tool :

First all combined device (Refraction - keratometry - aberrometry - topography - pupillometry - tonometry - pachymetry) with fully automated measurement



### Surgery

- Cataract surgery  
IOL selection, Internal spherical aberration, pupil center determination
- Refractive surgery  
Follow-up...



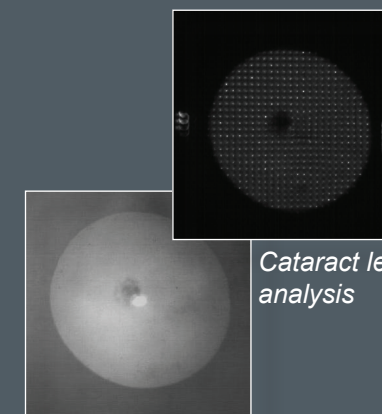
Pupillometry, photopic and scotopic results



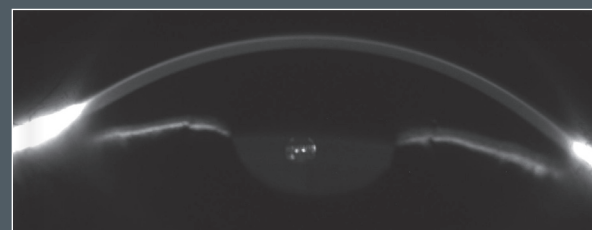
Proven technology

### Global optics diagnostic

- Cataract detection
- Dry eye diagnosis
- Accommodation measurement

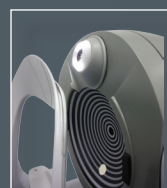


Cataract level analysis



Scheimpflug imaging, anterior segment analysis  
Corneal thickness measurement, iridocorneal angle

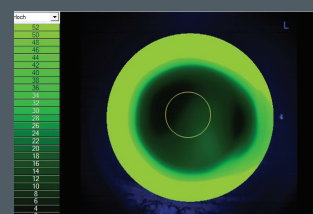
### Glaucoma diagnosis



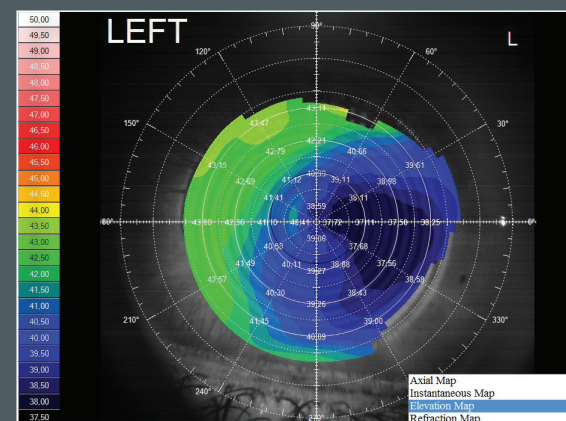
Full automated non-contact tonometer  
Soft air puff

### Corneal study

- Corneal pathology (keratoconus)
- Contact lens fitting



Contact lens software included



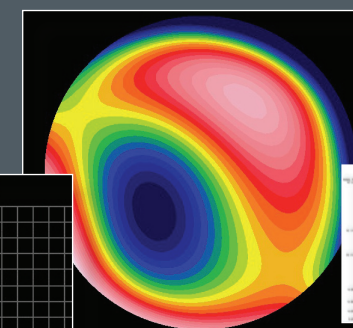
Full automated topographer, placido rings technology



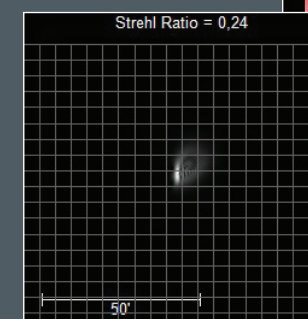
Depth of focus analysis

### Refraction and Visual performance

- Day and night Vision
- Internal, external and total aberrometry



Wavefront maps...



Full automated aberrometer  
PSF and Zernicke analysis



Visual acuity simulations



## Full automated

- Fully automatic 3-D and R/L eye alignments
- 7 types of automatic simultaneous measurements
- Operator independent measurements
- High reproducibility of measurements.

## Ultra efficient 3-D alignment

Entirely automatic alignment and measurement allowing :

- Higher reliability of measurements
- Significant time saving
- Great confort of use.



## Technical specifications

General	
Dimensions	W 320 mm x D 555 mm
Weight	27 kg
Working distance	91 mm
Alignment	XYZ automatic
Display	TFT Screen 10.1" (1024 x 600) Multitouch screen
Observation area	ø 14 mm
Printer	Built-in BW - External colour available
Supply voltage	100/120, 220/240 V AC, 50/60 Hz, 250 W
Medical Directive	CE MDD 93/42/EC amended by 2007/47/EC
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 2.0 mm - Max.7.0 mm (3 areas)
Number of measuring points	1500 points
Acquisition time	0.2 sec
Method	Shack-Hartmann

### Pachymetrie, IC angle and pupillometry

Method	Scheimpflug
Pachymeter Range	150-1300 µm
Pachy Resolution	+/- 1 micron
IC angle range	0°-60°
IC Resolution	0.1°
Pupil Illumination	Blue light 455nm
Retro illumination	

### Corneal topography

Number of rings	24
Number of measuring points	6.144
Number of analysed points	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 D
Method	Placido rings

### Tonometer

Meaurement range	1 mmHg to 50 mmHg
------------------	-------------------

