

VX 650

The unique
eye health monitor





Visionix: revolutionizing the future of visual healthcare

Visionix VX 650 reinvents ocular assessment by introducing the first and only solution allowing eye care professionals (ECPs) to deliver a comprehensive eye exam at the push of a button. It's a unique combination of technologies to monitor both anterior and posterior segments in a single device. The highly automated Visionix VX 650 allows a moderately trained user to study a wide range of visual pathologies.



Visionix VX 650: a single multi-modal instrument for complete detection and follow-up of major anterior and posterior ocular pathologies.

Increased level of eyecare without delay

Reduce overall patient movement and time in the pre-test room while providing a comprehensive examination to every patient in combination with Eye Refract.

A comprehensive exam

From the cornea to the retina, it allows ECPS to detect all major defects and pathologies, including dry-eye, keratoconus, cataracts, glaucoma, nevus, diabetic retinopathy, retinal hemorrhage and more.

Communication

Nexus, our new digital health platform, is specifically designed to connect all eye care professionals, even remotely, allowing you to bring ophthalmologists' expertise to patients in any eye screening location.

Efficient data management:

Results available for GDPR (General Data Protection Regulation) and HIPAA (Health Insurance Portability and Accountability Act) compliant data sharing, for either local or remote review.



Visionix combo screening and refraction system

Increased level of eyecare without delay

Reduce overall patient movement and time in the pre-test room while providing a comprehensive examination to every patient in combination with Eye Refract.

EYE REFRACT COMPUTER-ASSISTED BINOCULAR REFRACTION

The 2nd generation of Eye Refract utilizes unique innovative technology that performs an automatic binocular refraction powered by computer-generated algorithms.

VX 650 AUTOMATED ANTERIOR AND POSTERIOR SCREENING

The VX 650 offers anterior and posterior segment screening in a single device at the touch of a button.

- Accurate, comprehensive eye exam
- Automated anterior and posterior screening
- Accuracy and reproducibility of the findings are non-operator dependant
- Reduces overall patient movement
- Reduces the anxiety of adding a new location
- Small footprint within 2m²

Comprehensive exam

By collecting data through the multisensor platform, the VX 650 allows the ECP to study the patient

ANTERIOR SEGMENT RETROILLUMINATION, SHACK-HARTMANN WAVEFRONT SENSORS, SCHEIMPFLUG, PLACIDO RINGS, ANTERIOR EYE CAMERA

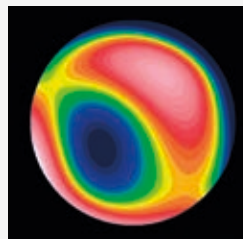
All data to study, quantify and monitor refractive errors



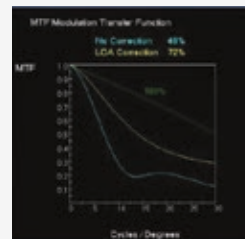
Vision quality



Visual acuity simulation

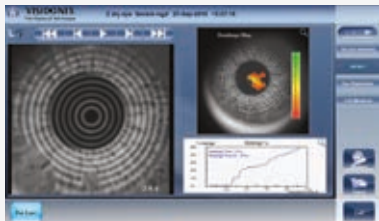


Lower-order and higher-order aberrations maps

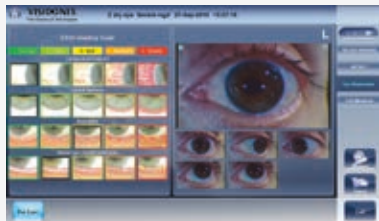


Analysis of aberrations with Zernike coefficients

All data to study, Evaluate, Monitor Dry Eye Diseases (D.E.D.)



Non-Invasive Break Up Time (NIBUT). Measurement and analysis

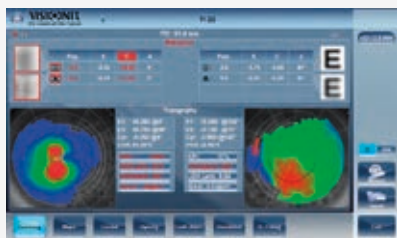


Meibomian Gland Dysfunction (MGD). Efron grading scale.



Measurement of tear meniscus height

All data to detect, evaluate and monitor corneal opacities and pathologies such as keratoconus



Topography maps and Keratoconus probability index (KPI)

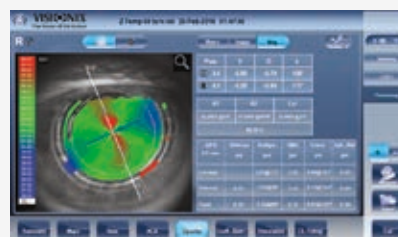


Data summary

All data to detect, evaluate and monitor cataracts



Retroillumination to examine lens opacities



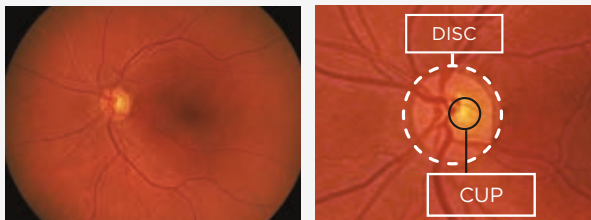
Toric IOL position linked with anterior corneal topography

POSTERIOR SEGMENT NON MYDRIATIC FUNDUS CAMERA, AIR PUFF TONOMETER

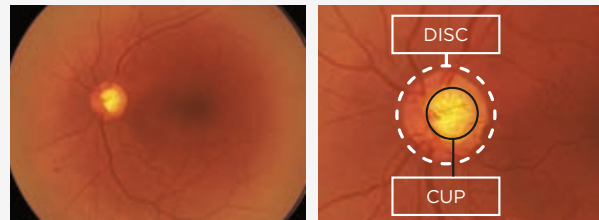
All data to study, evaluate and monitor glaucoma



Glaucoma summary screen with iridocorneal angle measurement, IOP, IOPc

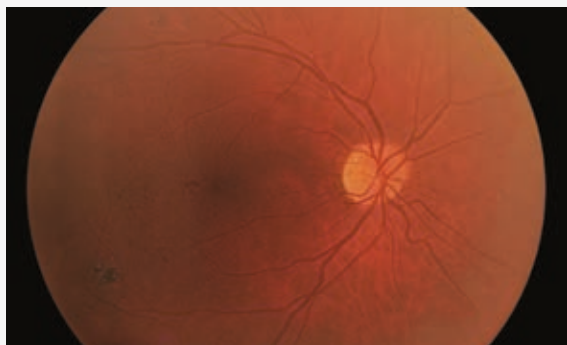


Healthy eye fundus picture



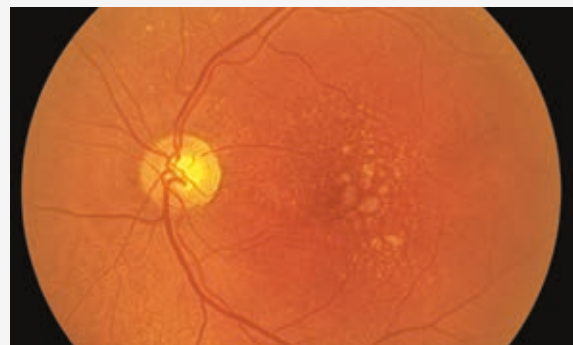
Glaucoma patient fundus picture

All data to study, Evaluate and Monitor Diabetic retinopathy



Diabetic retinopathy fundus picture

All data to study, Evaluate and Monitor Age-related Macular Degeneration



Macular degeneration

Communication

Comprehensive eye report through Nexus from VX 650

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VISIT: MEAS_ALL VX650

CLIENT

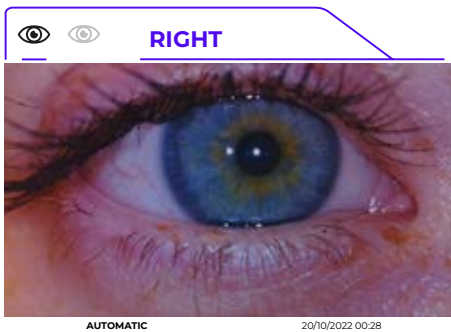
Name:	Birth date:	2001-11-02	Ethnicity:	Caucasian
Surname:	Gender:	M	Patient ID:	

RIGHT	APERTURE	SPHERE	CYLINDER	AXIS
DAY	3.00 mm	-0.25 DS	-0.75 DC	171°
NIGHT	5.07 mm	-0.75 DS	-0.50 DC	170°

LEFT	APERTURE	SPHERE	CYLINDER	AXIS
DAY	3.00 mm	0.50 DS	-0.75 DC	20°
NIGHT	4.24 mm	0.50 DS	-0.75 DC	16°

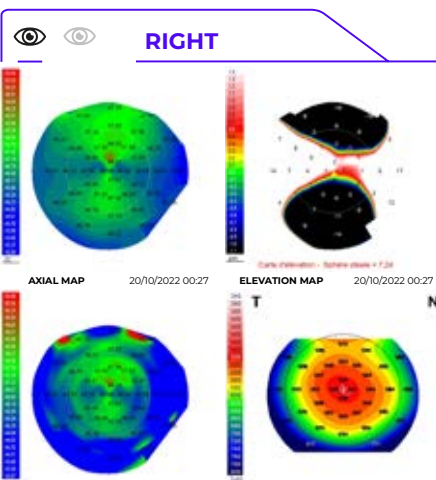
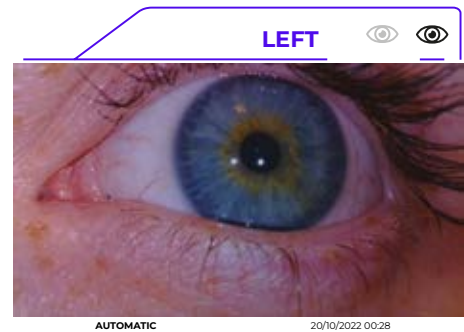
Keratometry Exam date: 20/10/2022

EYE	K1	K2	CYL	AVG
RIGHT	46.04 D (7.33 mm) @173°	47.80 D (7.06 mm) @83°	-1.75D @173°	46.91 D (7.20 mm)
LEFT	46.17 D (7.31 mm) @8°	47.47 D (7.11 mm) @98°	-1.25D @8°	46.81 D (7.21 mm)



ANTERIOR

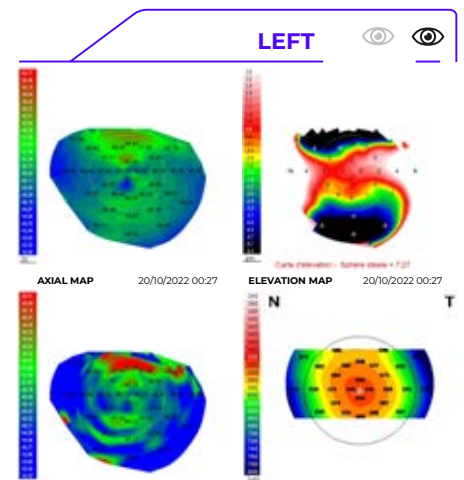
Exam date: 20/10/2022

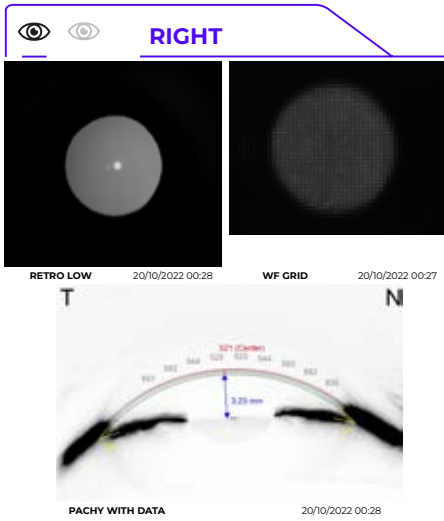


RIGHT	CORNEA	LEFT
22 %	KPI	44 %
-1.07	SYMMETRY INDEX	-1.57
0.89	ECCENTRICITY	0.80

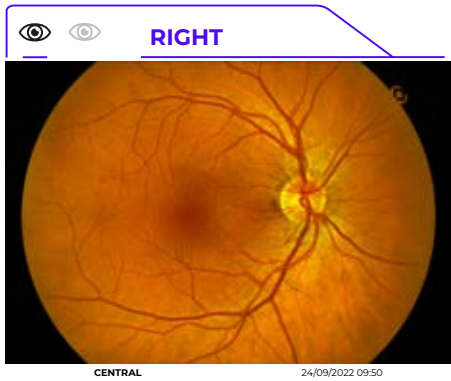
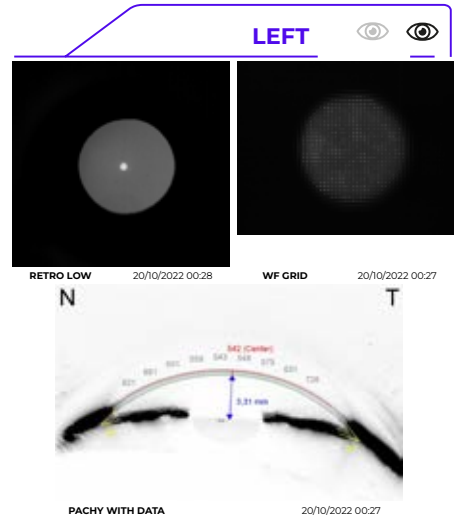
Exam date: 20/10/2022

* The axial, tangential and elevation maps displayed are related to the anterior corneal surface

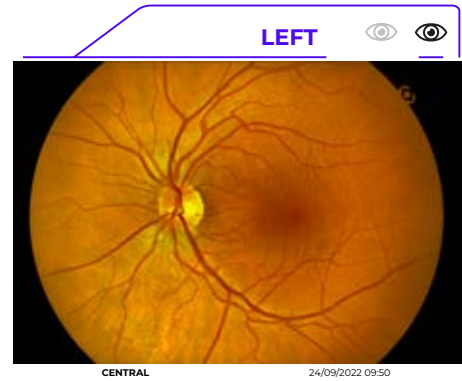




RIGHT	GLAUCOMA/ CATARACT	LEFT
522 µm	CCT	542 µm
31	NASAL ANGLE	32
32	TEMPORAL ANGLE	32
17.0 mmHg	IOP	15.0 mmHg
17.0 mmHg	IOPc	15.0 mmHg
IOPc has been calculated with Ehlers 1 correction factor		
Exam date: 20/10/2022		



RIGHT	FUNDUS	LEFT
0,15	CDR	0,17
0,41	VERT. CDR	0,38
Exam date: 24/09/2022		



Technical specifications

DIMENSIONS:

WIDTH	660 mm
DEPTH	420 mm
HEIGHT	560 mm
WEIGHT	32 Kg



Pachymetry, IC (iridocorneal) angle and pupillometry

Method	Static horizontal scan with the Scheimpflug camera
Pachymeter measuring range	150µm-1300µm
Accuracy	< 5µm
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	0.03 mm
Method	Placido rings

Dry Eye screening

- Non Invasive Break-Up Time (NIBUT)
- Measurement of tear meniscus height
- Scleral picture

Tonometer

Measurement range	Calibrated range 7 - 44 mmHg
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General

Alignment	XYZ automatic
Display	15.6" (1366 x 768 px) 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 / HDMI / DP

Power mapping and refraction

Spherical power range	-20D to +20D
Cylinder power range	0D to ±8D
Axis	0 to 180°
Measuring area	Min. ø 2mm - Max. 7 mm (3 zones)
Number of measuring points	1,400 points for 7 mm pupil at 0D
Acquisition time	0.2 sec
Method	Shack-Hartmann

Fundus

Angle of view	45°
Resolution	6 Mpix
Optical resolution	> 60 lines/mm



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Summary Cornea Anterior Segment Cataract Analysis WF Analysis Simulation Fundus

VX 650



INNOVATION TO UNLOCK YOUR POTENTIAL

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