VX 650

The unique eye health monitor

HUMAN GRADING
MY VISIONIXPERIENCE

A.I. RETINA SCREENING
MY VISIONIXPERIENCE

LENSES EXPERIENCE
MY VISIONIXPERIENCE

VISIONIX
INNOVATION TO UNLOCK YOUR POTENTIAL

myVISIONIXperience


visionix
VX 650
VX 650

The unique eye health monitor powered for A.I.

Visionix VX 650 revolutionizes ocular assessment, enabling ECPs to conduct comprehensive eye exams with ease. It combines various technologies to monitor both anterior and posterior segments, automating the process for efficient diagnosis.

Now the VX 650 works with EyeWisdom®MCS, an A.I.* solution that delivers thorough retinal screenings in under 6 minutes.

Fully compatible with My VisioniXperience solutions the VX 650 ensures GDPR and HIPAA consistent assessment results.

Benefits

A complete eye 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.

Increased level of eye care 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.

Communication

Our telehealth solutions, under my VisioniXperience umbrella are specifically designed to connect all eye care professionals, even remotely, allowing you to bring ophthalmologists' expertise to patients in any screen location.

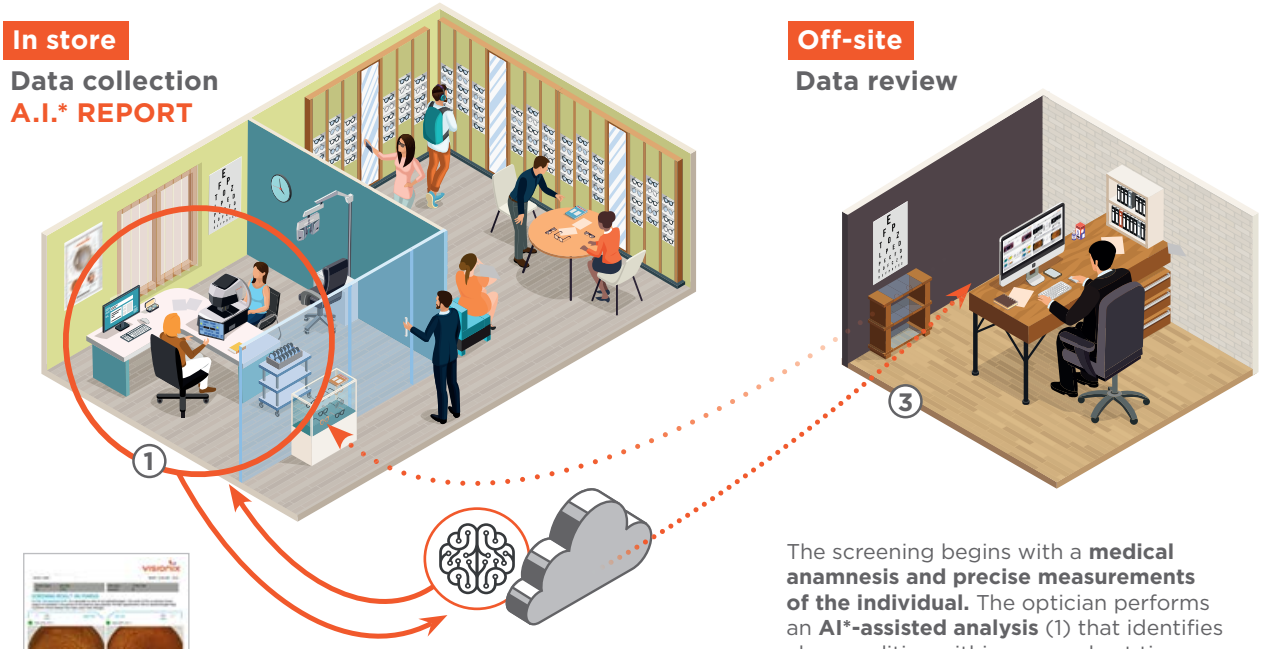
Efficient data management

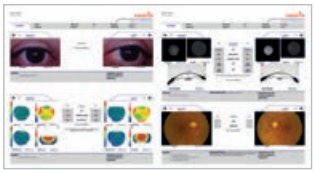
Results available for GDPR (General Data Protection Regulation) and HIPAA (Health Insurance Portability and Accountability Act) compliant data sharing, for either local or remote review.

ECPs: Eye care providers

A full process to easily analyse and share patient data for precise assessment of results

Incorporating my VisioniXperience solution expands your offering and enhances patient outcomes. Reports whether AI-generated or full anterior, posterior—can be reviewed in-store or securely shared via the Visionix Nexus platform for external human grading, with GDPR- and HIPAA compliant encrypted data handling.





The screening begins with a **medical anamnesis and precise measurements of the individual.** The optician performs an **AI*-assisted analysis** (1) that identifies abnormalities within a very short time. In particular, if an abnormal result is detected, there is also t**he option to share the data with a doctor from our affiliated network.** The doctor analyzes the data and completes the report with a recommendation for further action. After secure transmission, the consumer receives counseling from the optician and, if necessary, a recommendation for further evaluation by a doctor.

MY VISIONIXPERIENCE

My VisioniXperience is a suite of solutions that enhance your services, improve visual health management, and build customer trust. The VX 650 is a key part of this ecosystem, offering comprehensive eye screening in-store. All solutions are connected through Visionix Nexus, a secure platform that enables remote refraction, teleconsultation, and AI or expert grading—seamlessly supporting your entire workflow.

(1) Artificial Intelligence EyeWisdom®MCS
The analysis based on artificial intelligence software (medical device) provided by Vistel is not a substitute for a diagnosis by an ophthalmologist but merely a screening for specific features in the examined part of the fundus. The software processes images taken from a limited portion of the retina. Even if no anomalies are detected by the software, this is not a guarantee of ocular health. Availability varies by country.

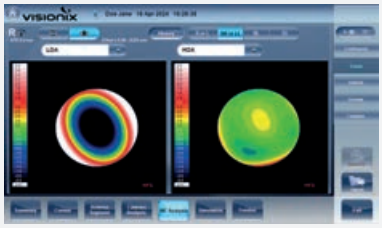
(2) Digital screening (human grading or AI) does not constitute a medical diagnosis in any way. The analysis of individual data does not replace or equate to an ophthalmological examination. The methodology used is limited to the analysis of a restricted selection of data, which does not allow for a medical diagnosis. The absence of abnormalities or elevated risk is not a guarantee of eye health. Regular examinations by an eye care specialist are recommended in any case. Any recommended actions are suggestions only.

In store, anterior data collection

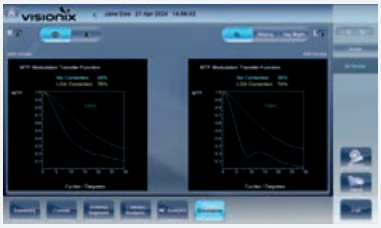
ANTERIOR SEGMENT **RETROILLUMINATION, SHACK-HARTMANN WAVEFRONT SENSORS, SCHEIMPFLUG, PLACIDO RINGS, ANTERIOR EYE CAMERA**

All data to study, quantify and monitor refractive errors

Visual acuity chart and Point Spread Function (PSF)

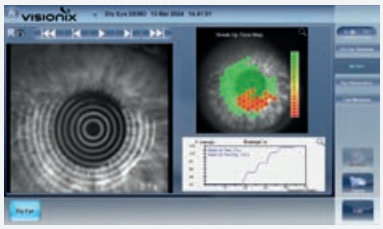


Lower-order and higher-order aberrations maps

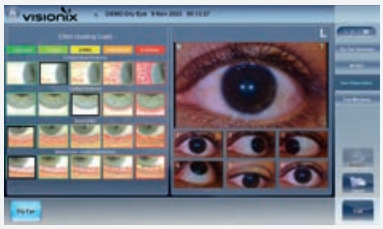


Modulation Transfer Function (MTF)

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



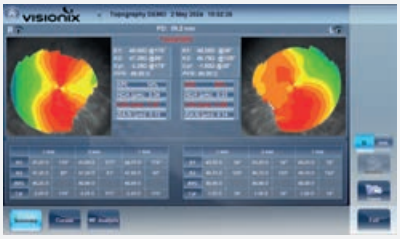
Non-Invasive Break Up Time (NIBUT). Measurement and analysis



Efron grading scale

Measurement of tear meniscus height

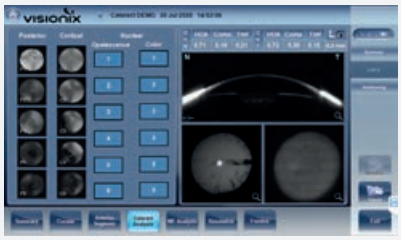
All data to detect, evaluate and monitor corneal opacities and pathologies such as keratoconus



Topography maps and Keratoconus probability index (KPI)

Corneal Data Summary

All data to detect, evaluate and monitor cataracts



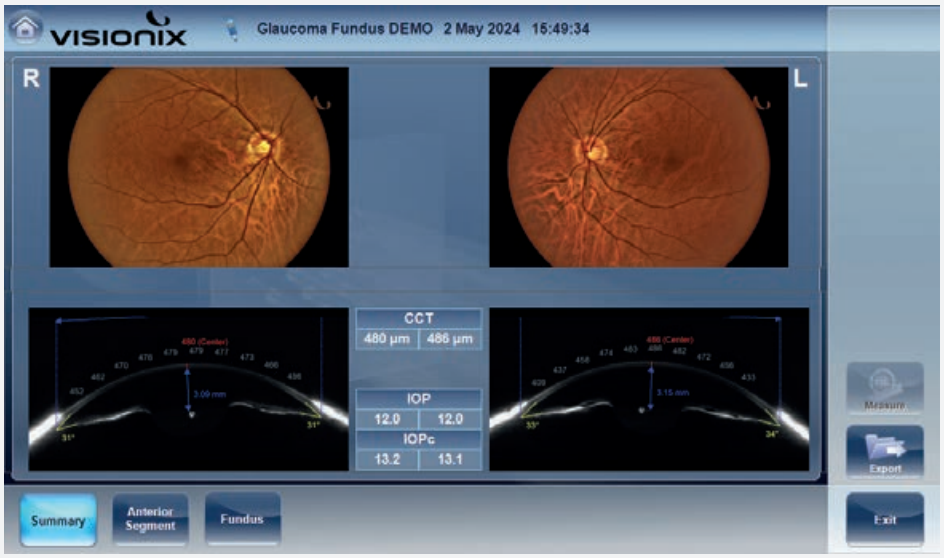
Retroillumination to examine lens opacities

Toric IOL position linked with anterior corneal topography

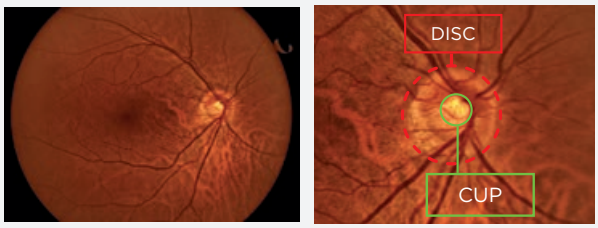
In store, posterior data collection

POSTERIOR SEGMENT **NON MYDRIATIC FUNDUS CAMERA, AIR PUFF TONOMETER**

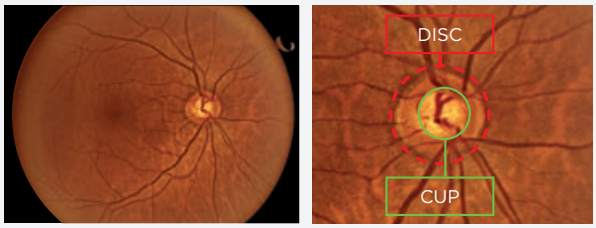
All data to study, evaluate and monitor glaucoma



Glaucoma summary screen with iridocorneal angle measurement, IOP, IOPc

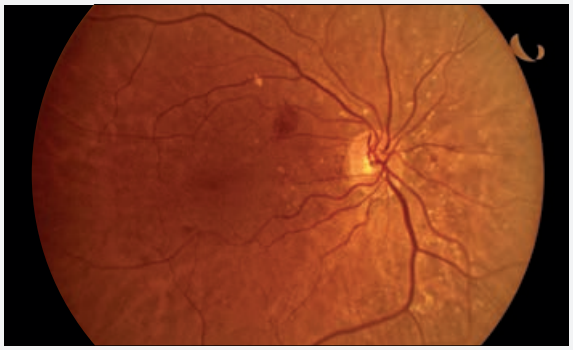


Healthy eye fundus picture



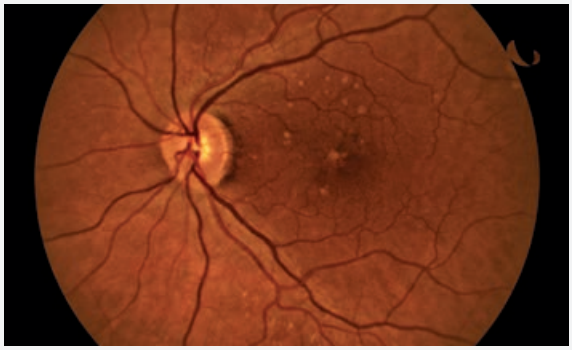
Glaucoma patient fundus picture

All data to study, Evaluate and Monitor Diabetic retinopathy



Diabetic retinopathy fundus picture

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



Age related Macular Degeneration

A.I retina report that builds evidence

The VX 650 connected with EyeWisdom®MCS A.I.* solution allows you to expand your visual health capabilities. By playing an active role in retinal screening, you can support the health of your community and enhance your customer experience.

Simplified Outcomes: Easy-to-Interpret Report

VISIONIX

DEVICE: VX650 — REPORT: 23/06/2025 - 16:22

Patient Name:	Oriano Ferrari	Birth date:	09/03/1984
ID:	274588	Gender:	Unknown

SCREENING RESULT ON FUNDUS

PATIENT RECOMMENDATIONS: It is advisable to refer to an opthahlmologist. The result of the AI software shows suspect of anomalies in the portion of the posterior pole analyzed. Periodic appointments with an ophthalmologist helps to prevent retinal diseases that might cause vision damages.

RIGHT EYE		LEFT EYE	
Image quality score: 3		Image quality score: 3	
There is suspect of retinal pathologies		There is suspect of retinal pathologies	
Diabetic Retinopathy:	No suspect detected	Diabetic Retinopathy:	No suspect detected
Exudative AMD:	No suspect detected	Exudative AMD:	No suspect detected
NonExudative AMD:	No suspect detected	NonExudative AMD:	No suspect detected
Glaucoma:	No suspect detected	Glaucoma:	No suspect detected
Other abnormalities:	Suspect detected	Other abnormalities:	Suspect detected
Risk score	1/10	Risk score	2/10

DISCOVER MORE ABOUT RETINAL HEALTH

Images were analyzed based on the signs of 13 most common retinal pathologies
Scan the QR code to discover more about retinal health

Powered by MD EyeWisdom MCS CE 1639 Visionary Intelligence Ltd. UDI (01)06975169730027(8012)V2.2.1

The indications given are partial and provided by an artificial intelligence software (Medical Device), provided by Vistel. Artificial intelligence software analysis is not a replacement of a diagnosis made by an ophthalmologist but it is intended only to retrieve particular features in the portion of the fundus examinated. The software processes pictures taken on limited portion of retina. Even if anomalous features are not retrieved by the software, this does not guarantee the absence of the disease.

The A.I.* solution connected with the VX 650 detects up to 13** retinal pathologies, the A.I.* report displays the 4 major ones.

*Artificial Intelligence EyeWisdom®MCS

** Diabetic retinopathy, Retinal vessel occlusion, Pathologic myopia,,Exudative ARMD, Retinitis pigmentosa, Nonexudative ARMD, Epiretinal membrane, Optic disc atrophy, Central serous chorioretinopathy, Suspicious glaucoma, Macular hole, Retinal detachment, Retinal artery occlusion

A.I validated solution

The EyeWisdom®MCS AI* solution working with VX 650 covers 13 common retinal pathologies. With most retinal diseases, the primary goal of treatment is to slow disease progression and preserve the retina and associated vision.

SENSITIVITY

The ability of the A.I.* to correctly tag a positive result:

93%*

SPECIFICITY

The ability of the A.I.* to correctly tag a negative result:

90.6%

EXPERT VALIDATED

Reporting capabilities validated by experts

CE CERTIFIED

Class II registered A.I with CE 1639 certification

ESTABLISHED QUALITY

>90% sensitivity and specificity with low risk of false results*

TRIPLE COMFORT

1. Fully Automatic
2. Simple and Fast Acquisition
3. Quick and Easy Reporting

TRIPLE BENEFITS

1. Enhance customer satisfaction and loyalty
2. Generate additional revenue streams
3. Differentiate your business

Reports generated by the VX 650 device are intended to support, not replace, professional medical consultation and diagnosis

*Internal study for CE mark submission of EyeWisdom®MCS by Li B, Chen H, Zhang B based on 3,127 images collected between 2014 and 2018, China, Visionary Intelligence. The clinical study was conducted under ideal conditions in a medical environment. The precision may vary depending on the measurement conditions and devices.

*Artificial Intelligence EyeWisdom®MCS

Full report ready to analyse or transfered for reviewing

VISIONIX

VISIT: MEAS_ALL VX650

CLIENT

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

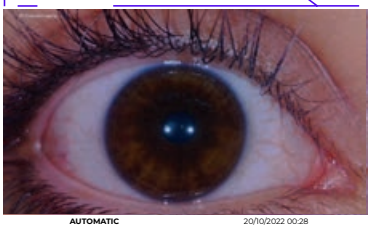
RIGHT	APERTURE	SPHERE	CYLINDER	AXIS
DAY	3.00 mm	-0.25 DS	-0.75 DC	171°
NIGHT	5.07 mm	-0.75 DS	-0.50 DC	170°

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)

RIGHT

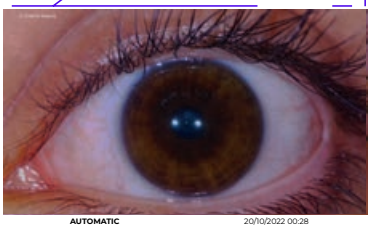


AUTOMATIC 20/10/2022 00:28

ANTERIOR

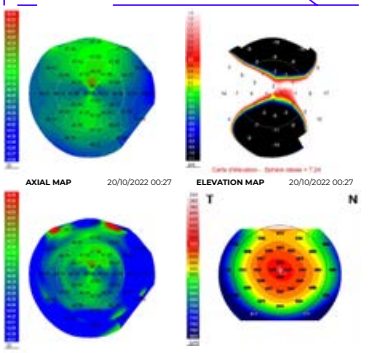
Exam date: 20/10/2022

LEFT



AUTOMATIC 20/10/2022 00:28

RIGHT



AXIAL MAP 20/10/2022 00:27 ELEVATION MAP 20/10/2022 00:27

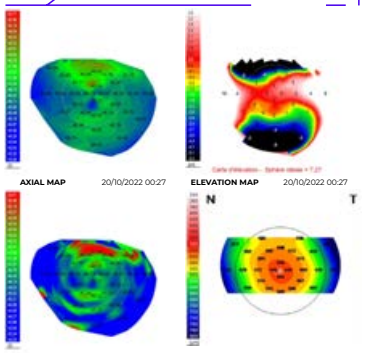
T N

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

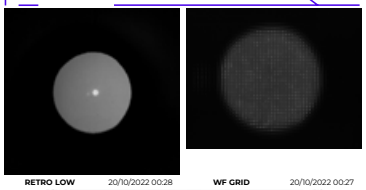
LEFT



AXIAL MAP 20/10/2022 00:27 ELEVATION MAP 20/10/2022 00:27

N T

RIGHT



RETRO LOW 20/10/2022 00:28 WF GRID 20/10/2022 00:27

T N

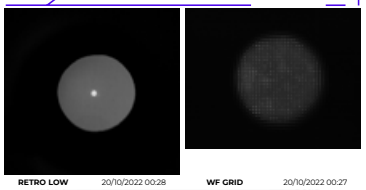
PACHY WITH DATA 20/10/2022 00:28

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

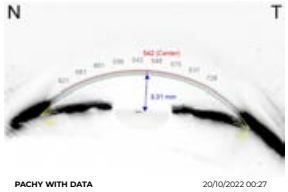
IOPc has been calculated with Ehlers 1 correction factor

Exam date: 20/10/2022

LEFT



RETRO LOW 20/10/2022 00:28 WF GRID 20/10/2022 00:27



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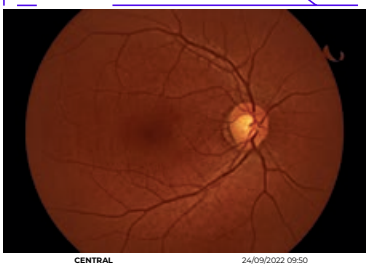
PACHY WITH DATA 20/10/2022 00:27

RIGHT

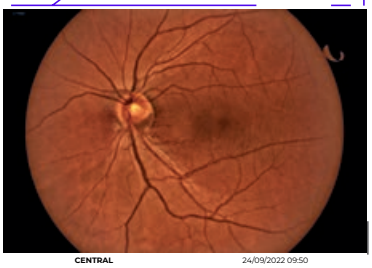


CENTRAL 24/09/2022 09:50

RIGHT	FUNDUS	LEFT
0,15	CDR	0,17
0,41	VERT. CDR	0,38

Exam date: 24/09/2022

LEFT

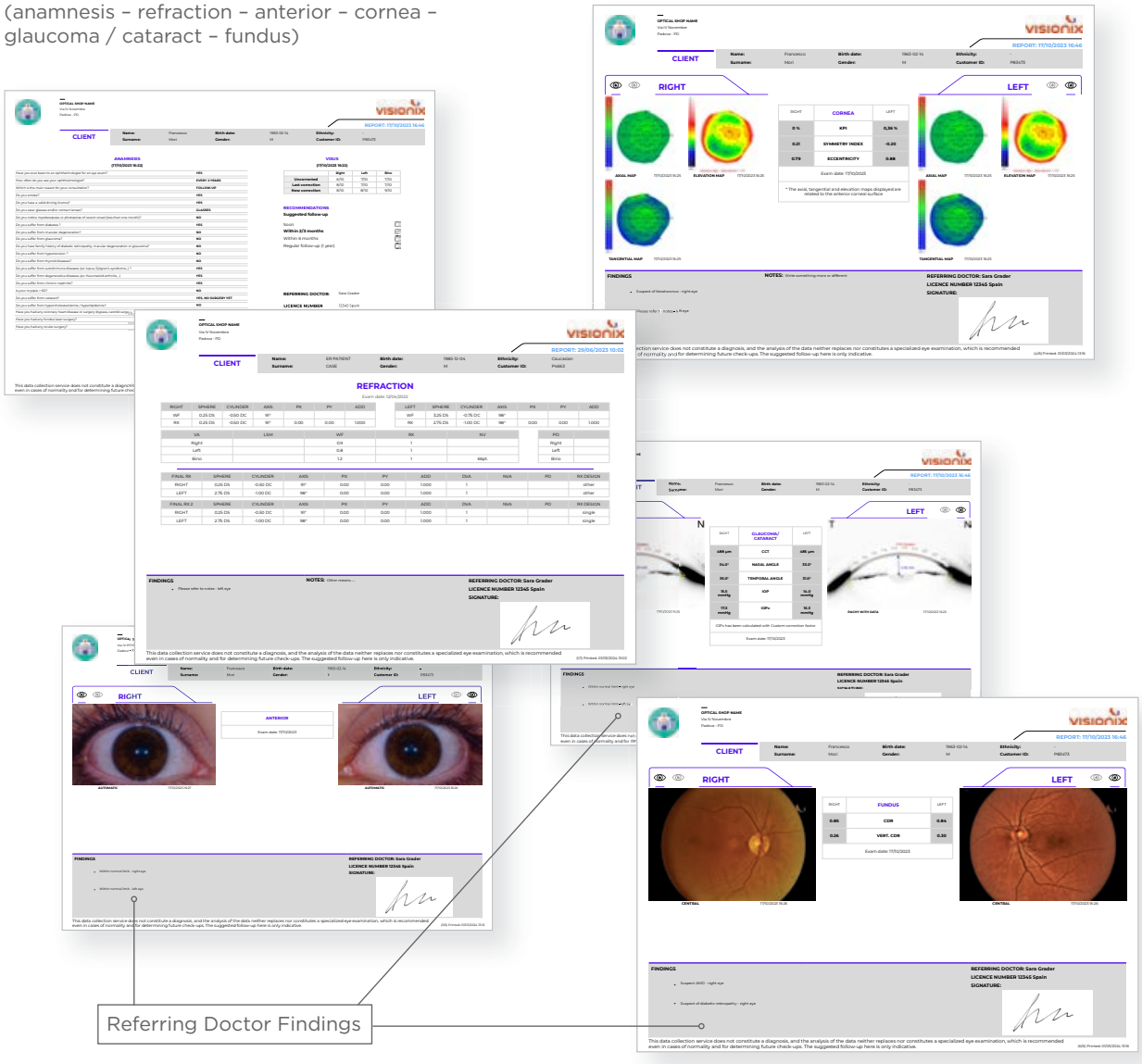


CENTRAL 24/09/2022 09:50

A better experience for every patient: a comprehensive exam

By combining the VX 650 with the Eye Refract, you can offer a more comprehensive eye exam—from health screening to precise refraction. This system enables in-store or remote operation, allowing you to conduct refraction and screening from any location while engaging live with your patients. My VisioniXperience supports this capability through a secure, encrypted platform for data exchange.

6 pages comprehensive report
(anamnesis – refraction – anterior – cornea – glaucoma / cataract – fundus)



VX 650 Technical specifications

DIMENSIONS:

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

NOT FOR THE USA

CE 0051

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
General	
Alignment	XYZ automatic
Display	15.6" (1366 x 768 px) TFT screen Multi-touch screen
Observation area	ø 14 mm
Medical Device Conformity	Class IIa; CE certified EU MDR 2017/745 by IMQ (0051)
Output	RS232 / USB / VGA / LAN / HDMI / DP
Legal Manufacturer	Luneau Techology Operations, 2 rue Roger Bonnet, 27340 Pont-de-l'Arche, FRANCE
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
Data Management	
Automated transfer of data to EyeWisdom (TM) MCS AI software with Nexus platform for real time retinal images analysis	
Cloud-based secure storage	
Dicom connectivity	
GDPR compliant with client side encryption	
Automatic database backup	
Integrated telehealth platform to connect device user with remote doctors for referrals (optional)	
Medical Device Conformity of other devices	
Visionix Nexus is not a medical device but only a data sharing platform Eye Refract is a class IIa medical device CE certified as per European Regulation MDD 93/42 by Notified Body IMQ (0051) EyeWisdom (TM) MCS is a class IIa medical device CE certified as per European Regulation MDR 2017/745 by Notified Body SGS Belgium NV (1639)	

VISIONIX

INNOVATION TO UNLOCK YOUR POTENTIAL

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