A.l powered binocular physiological refraction







Eye Refract: the reforged refraction process

Eye Refract, manufactured by Visionix, is the only Artificial Intelligence powered device that offers physiological refraction for determining the most comfortable prescription for your patients. Eye Refract has reforged the refraction process, allowing eye care professionals to optimise time spent with their patients. Eye Refract utilises a unique and innovative technology which performs an automatic binocular refraction powered by artificial intelligence.

A much simpler refraction

STANDARD REFRACTION



Step 1: Objective refraction

ARK based objective refraction comes with limitations:

- monocular measurement.
- no accommodation control
- restricted field



Step 2: Subjective refraction

- Stressful for the patient
- Time consuming
- Operator and patient dependant

EYE REFRACT REFRACTION

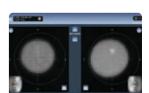
Physiological refraction

Wavefront based refraction offers:

- binocularity during the entire process
- physiological reaction monitoring
- openfield condition
- accommodation control system
- auto-adjusting lenses



Physiological spontaneous reaction



Binocular aberrometric measurement



Translated into lenses

Final prescription

The operator finds the most comfortable prescription through a few additional comparative questions.





The reforged refraction process

Eye Refract, manufactured by Visionix, is the only Artificial Intelligence powered device that offers physiological refraction to determine the most comfortable prescription for your patients.



PHYSIOLOGICAL REFRACTION

The only device with live measurements and automatic lenses rotation.

Physiological refraction is an adaptive process that takes the patient's physiological reaction into account until a stable measurement is reached. Powered by Visionix Wavefront technology, measurements are performed simultaneously on both eyes.



QUICK PRO ALGORITHM

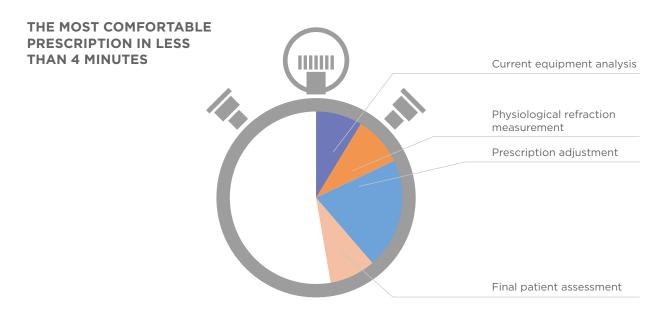
Following the physiological refraction process, the Eye Refract Quick Pro algorithm enables the system to find the most comfortable prescription as quickly as an experienced optometrist.

The Eye Refract algorithm was designed by:

- Analyzing thousands of subjective refractions cases
- Comparing results from the Eye Refract with standard subjective refractions
- Involving professors in optometry and experienced optometrists

Speed up your process

Cut your examination time without sacrificing accurate results*.



ALL-IN-ONE DEVICE

The Eye Refract solution combines a lensmeter, a binocular wavefront ARK and a phoropter all in one device. Patients no longer need to move from one device to another. Patients are more comfortable and you save time setting up and disinfecting devices.

How would you use the time you save?



^{*} Comparison Between Aberrometry-Based Binocular Refraction and Subjective Refraction Gonzalo Carracedo 1,2, Carlos Carpena-Torres 1, Maria Serramito 1, Laura Batres-Valderas 1

Delegate refraction data collection with confidence

Artificial Intelligence embedded in the Eye Refract solution guides any staff member through the refraction process- even one with limited training. Quick Pro steps ensure any operator delivers consistent results. Results are based on the patient's physiological reactions, which require no operator interpretation, making them easily repeatable. The final prescription data is sent to the eye care professional for confirmation and sign off.

FULL DELEGATION

Eye care professional reviews the refraction data collected by the technician using Eye Refract from another room or location.



HALF DELEGATION

The technician conducts the refraction process on the Eye Refract solution, allowing doctor to perform additional tests if necessary.



COMPLETE MANAGEMENT ON SITE OR REMOTE REFRACTION SOLUTION*

Complete management of the eye exam by a single eye care professional in store or remotely results in time savings and efficiency.

*SEE OUR REMOTE REFRACTION SOLUTION PAGE 10



Improve the patient experience

The only device automatically providing patients with a smooth transition from blurry vision to clear vision in seconds. The prescription is quickly determined, minimizing minimizing uncertain results and relieving patient stress. Once the physiological refraction is found, Eye Refract automatically determines the most comfortable prescription.

Additionally, social distancing is possible with the tablet driven device, avoiding proximity between patients and operators.

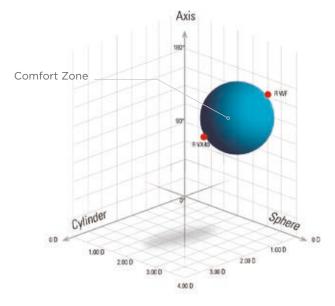


EXPERIENCE A NATURAL MEASUREMENT

By measuring both eyes simultaneously, Visionix Eye Refract integrates the way patients use their eyes innately. The lenses automatically adjust to the patient's visual reaction, ensuring the physiological refraction is reached very quickly.

ELIMINATE STRESS

Eye Refract does the work of multiple devices, eliminating patient stress of moving to different instruments and having to answer multiple questions.



REACH THE COMFORT ZONE

Based on the results of physiological refraction, the patient's most comfortable prescription is determined using a few fine-tuning questions.

A more efficient experience for you

Compared to conventional devices, Eye Refract is more comfortable for the operator, giving more confidence and less stress.



CLASSIC REFRACTION

The non-ergonomic refraction solution of manual phoropters compels eye care professionals to assume unnatural postures for device manipulation, which can lead to painful strain on the neck and shoulders.

TRANSITION TO AN ERGONOMIC AND DIGITAL **REFRACTION**

Switching to digital refraction can reduce the strain on the neck and shoulders; and eliminates the need to reach forward and above the midline while changing lenses.

EYE REFRACT: THE NEW STANDARD

The ergonomic, intuitive and responsive user interface allows eye care professionals to smoothly perform refractions.

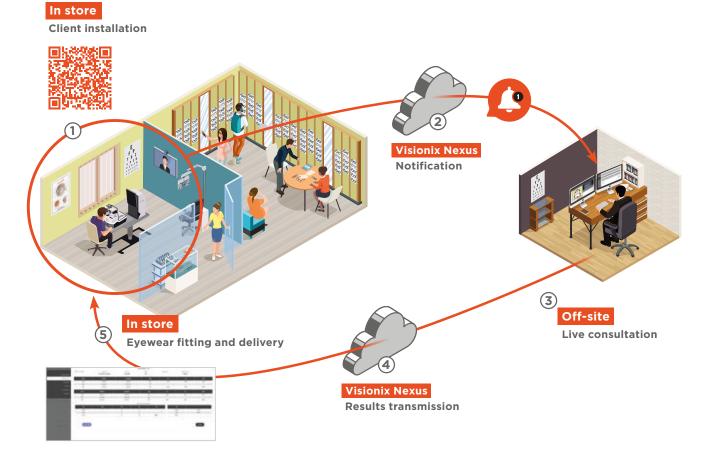
- Powered by artificial intelligence, the binocular physiological refraction device includes instructions at each step, automatic lens adjustment and alert messages in case of illogical answers
- Take back control at any point to make adjustments using a wide range of complementary tests.

Easily Manage the Refraction Process Remotely



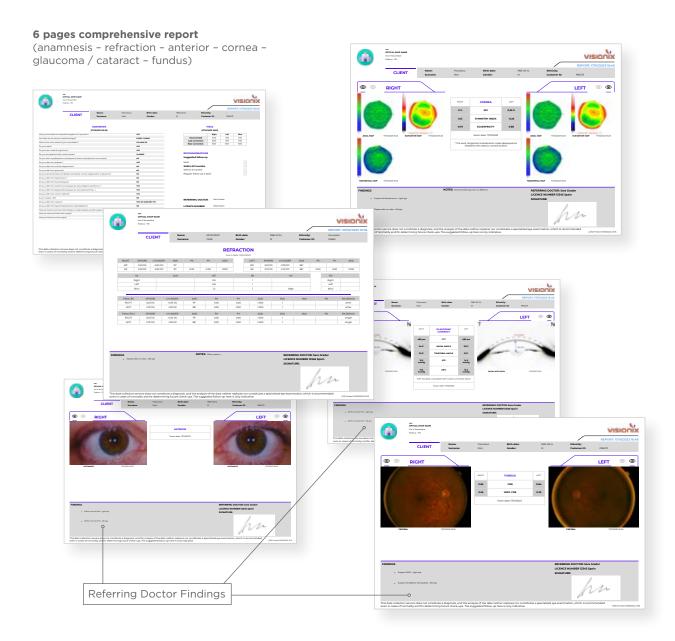
Eye Refract can be operated remotely so you can easily perform the refraction from anywhere and have a live discussion with your patients. Visionix Nexus supports this solution as the platform is designed for the secure exchange and storage of anonymized and encrypted consumers data within the eye care industry.

In the absence of an optometrist in-store, the remote refraction solution allows you to pool our optometrists, utilize an external platform, or adopt a hybrid approach to addressthis potential absence and ensure a high-quality service for your customers.



VISIONIX NEXUS

Our remote refraction solution is powered by the Visionix Nexus, a data exchange platform for eye care providers, supporting asynchronous and synchronous telehealth solutions, remote refraction, and a way to access artificial intelligence database. It allows live interactions between optometrists, ophthalmologists, patients, and in-store operators. Visionix Nexus enables teleconsultation and examination grading through AI or human assessment.



COMPREHENSIVE EYE EXAM

This system enables remote operation, allowing you to conduct refraction and screening conveniently from any location while engaging in live discussions with your patients. Visionix Nexus endorses this capability, as the platform is tailored to ensure the secure exchange and storage of anonymized and encrypted consumer data within the eye care sector.



Configuration with VX 25

Ref.	30230000-00	
Output	RS-232 / USB2.0 / VGA / LAN Embedded bluetooth / Wifi	
Hardware	Tablet	
Range	Sph	
Communication	Remote Refraction (optional)	
	Shack Hartmann Camera Each of the 1050 points = one measure	
Table VX 40-ER VX 25-ER	8160-0025-01	

VX 40	
Ref.	3014-0000-00
Measurable range	Number of analyzed points: Up to 1350 Sphere power:
General	Printer
Console	8160-8025-00

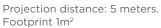
VX 25		
Ref.	8225-0000-00	
	Screen type	
	• Size	7" LCD (color) High resolution Monitor
	Maximum contrast	1000/1
	Luminance	250 cd/m ²
	Reading distance	5 meters
	Visual acuity range	0.1 to 2.0 - 20/500 to 20/10
	VX 25 power supply	100-240V CA - 50/60Hz - 1.3A
Measurable range	Screen power supply	12V DC
	Consumption	Max 60W
	 Protection against electrics shocks 	
	IP Classification	IPXO
	• Size	
	Weight	
	Connections with phoroptors	RS232-C or IR or wifi
	Sound output	Sound output jack 3.5mm



SPACE SAVING CONFIGURATION WITH VISIONIX VX 25

This screen has been designed for optimal results in the pre-screening area thanks to its ergonomic design, streamlined style, and the large number of tests included.

The VX 25 includes the same functions as the VX 22, but within a smaller footprint.









Working distance: 0.8 meters

Configuration with VX 22

Ref.	30230000-00	
Output	• RS-232 / USB2.0 / VGA / LAN • Embedded bluetooth / Wifi	
Hardware	Tablet	
Range	Sph	
Communication	Remote Refraction (optional)	
	Shack Hartmann Camera Each of the 1050 points = one measure	
Table VX 40-ER VX 25-ER	8160-0025-01	

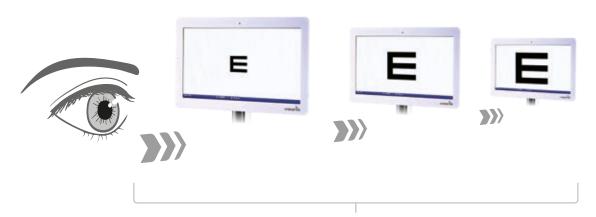
VX 40	
Ref.	3014-0000-00
Measurable range	Number of analyzed points: Up to 1350 Sphere power:
General	Printer
Console	• 8160-8025-00

Ref.	8225-0000-00		
	Screen size		
	Resolution	1920x1080	
	Luminance	250 Cd/m2	
	Reading distance		
	Visual acuity	0,1 to 2,0	
Measurable range	Power supply	100-240V CA - 50/60Hz - 1.3A	
	Built-in speaker		
	Interface	RS-232, IR, 4 Usb, VGA, Hdmi, Lan	
	Built-in LED for external fixation point		
	Possible media support for advertising purposes: ASF, WMV, WMA, OGG, MOV, RM, RA, RAM, MP4, MPEG, AVI, VOB, MPG		
Chanda	• 7191013 Floor stand (Optio	nal)	
Stands and Mounts	• 7610022 Table stand (Optional)		
	• 8230-5041-07 VESA wall mount (included)		
Accessories	Batteries for remote control	l dongle	
	• USB stick		
	Radio remote control		
	Power supply cable and transformer		
	Matching tests for child tests		
	Red / green frameCircular polarised frame		

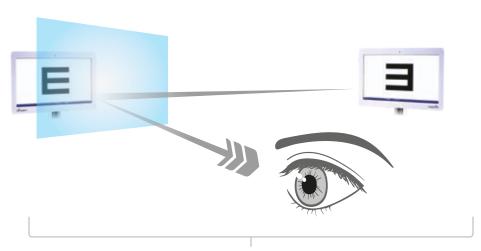


STANDARD SPACE CONFIGURATION WITH VISIONIX VX 22 LP CHART **DISPLAY**

This device features a linear polarisation to test binocular and stereoscopic vision, allowing a perfect dissociation of the right eye and left eye. This streamlines testing, allowing for quick examination of bi-ocular, binocular, and stereoscopic vision in one process.



Projection distance 2 to 8 meters.



Features mirror mode





INNOVATION TO UNLOCK YOUR POTENTIAL

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