EYE REFRACT™

Revolutionising the practice of refraction

THE FIRST EVER BINOCULAR DYNAMIC EXAM

VISIONIX

The Vision of the Future

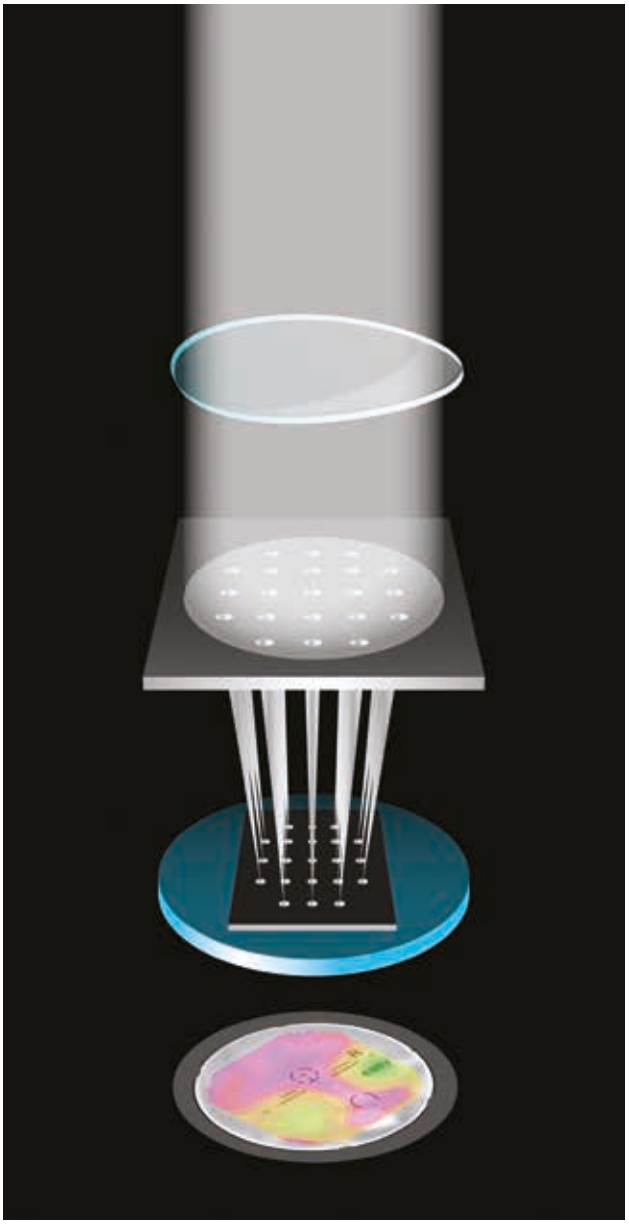
VISIONIX HAS DEVELOPED A NEW METHOD OF REFRACTION

Eye Refract™ developed by VISIONIX® is part of a complete and revolutionary refraction system that offers a rapid, binocular and dynamic measurement using Wavefront Technology. Eye Refract™ is based on patented Wavefront Technology developed by Visionix®.

The system consists of a fully automatic VX40 lensmeter which integrates Wavefront technology, the complete VX22 chart display or the VX25 space saving chart, a tablet and the Eye Refract ™. These elements communicate via an independent WiFi signal.

Wavefront technology offers a measurement of the eye featuring a multitude of analysed points based on the wavefront, whereas traditional technologies measure a single point or just a few points. Visionix® pioneered patented methods which miniaturised this technology.

After blurring, the patient experiences simultaneous binocular measurements and adjustments of the lenses to get the most perfect wavefront result.



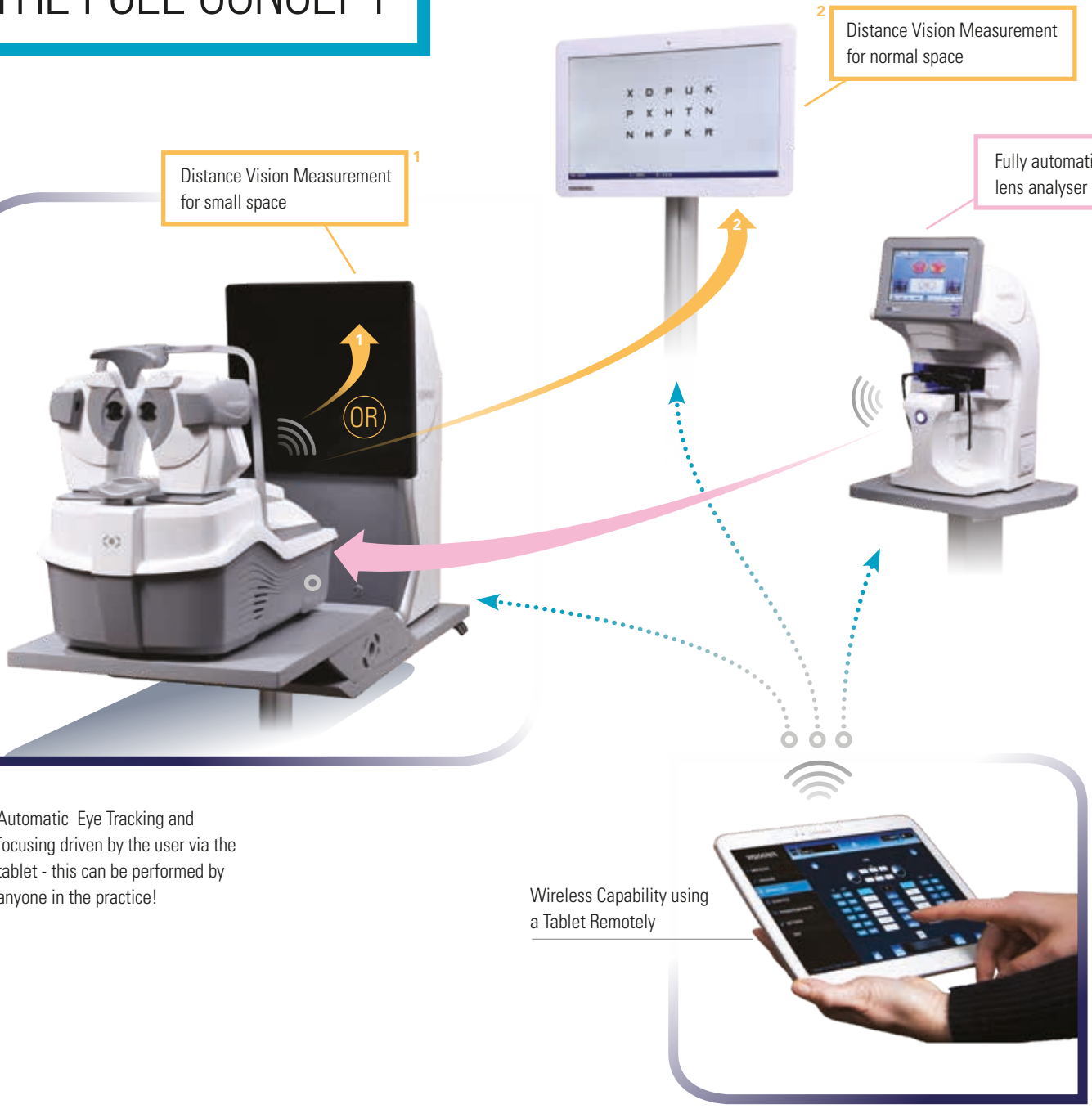
WAVEFRONT TECHNOLOGY

THE FULL CONCEPT

Distance Vision Measurement for small space [1]

Distance Vision Measurement for normal space [2]

Fully automatic lens analyser



Automatic Eye Tracking and focusing driven by the user via the tablet - this can be performed by anyone in the practice!

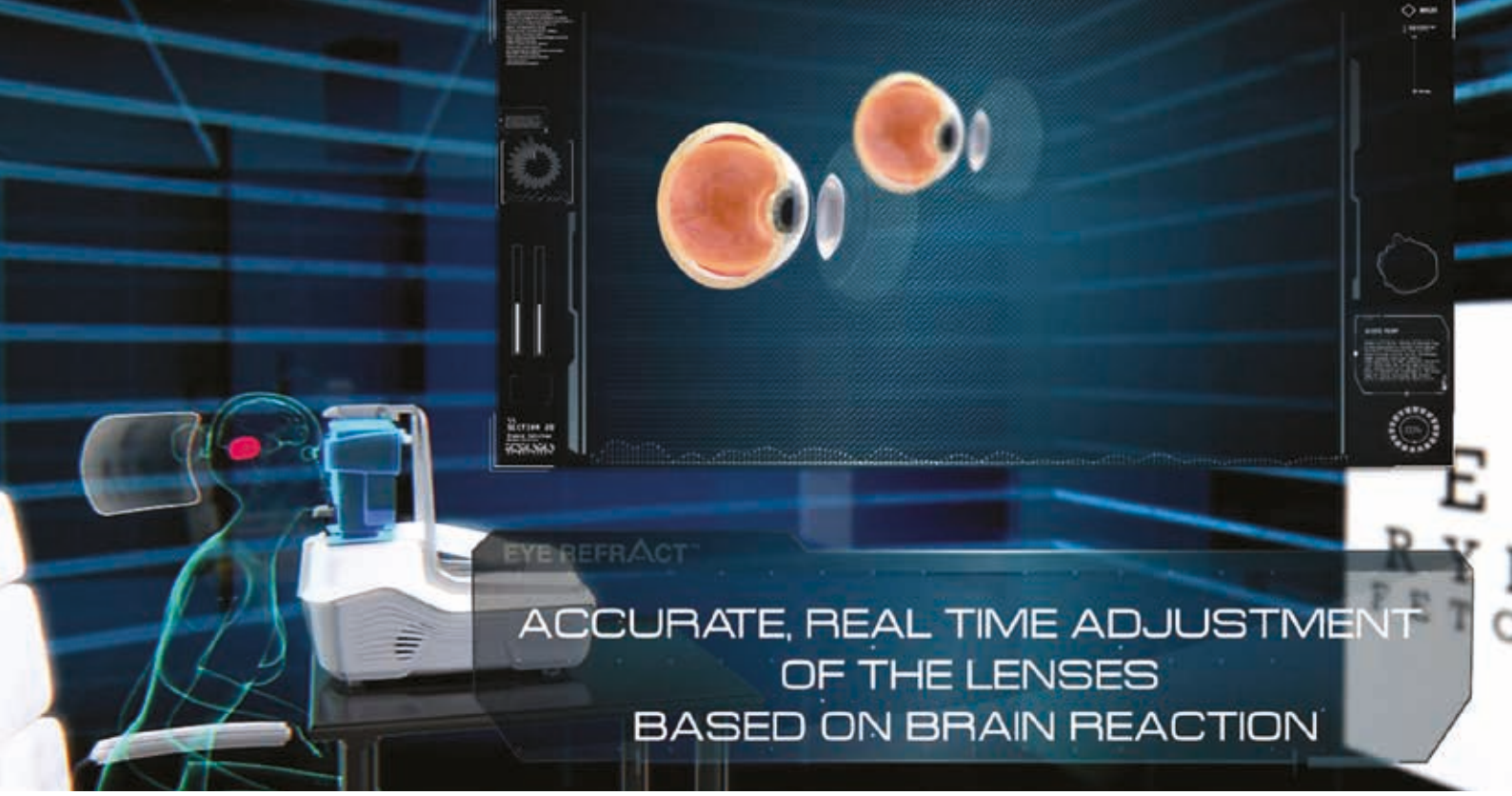
Wireless Capability using a Tablet Remotely

BINOCULAR VISION

Eye Refract™ allows you to perform a precise and repeatable dynamic binocular refraction in less than 3 minutes.

NEAR VISION

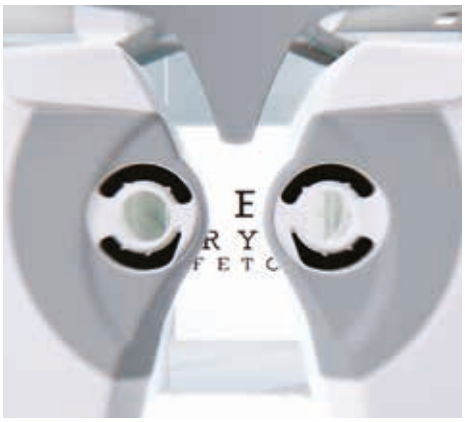
True addition takes into account real distance results. By adjusting the chart to the specific working distance for each patient, this gives maximum comfort and best near vision results.



CUSTOMER EXPERIENCE AND COMFORT

THE WOW FACTOR

With Eye Refract™, the patient experiences transition from a blurry to a clear image almost immediately.
The iteration cycles take only a few seconds.
After blurring, the patient experiences simultaneous measurements and adjustments of the lenses to get the most perfect Wavefront measurement.



WORKING WITH CLEAR VISION INSTEAD OF BLURRED

A new experience for the patient during their refraction examination: after the Eye Refract™ dynamic measurement our new method of refraction is based on the comparison of eye test lines or sharp points, while the traditional methods ask the patients to compare blurry elements.
This also the reason why the repeatability is twice as good with Eye Refract because our process generates/induces less subjectivity.

DYNAMIC BINOCULAR MEASUREMENT

AUTOMATIC MEASUREMENT VX40 LENS ANALYSER

The VX40 combines automatism with a high precision of measurement and allows you to spend more time with your patients and less time trying to get an accurate analysis from their current spectacles. Just press one button and in a few seconds obtain a full mapping of the lenses (1350 points of measurement).
VX40 automatically detects different types of lenses: progressives, single vision as well as bifocals.
It is compatible with all lens technologies and brands.

DYNAMIC MEASUREMENT EYE REFRACT™

Easy-to-use refractive instrument providing highly repeatable results, not dependant on the operator, patient or method used.

BEST USER EXPERIENCE

Advanced technology including: Auto-focus, Auto-tracking, simultaneous measurement.
Both measurement and refraction verification at the same time.
Full connectivity and data transfer (VX 40, VX 22 LP, PC).

ACCURACY / REPEATABILITY / SPEED

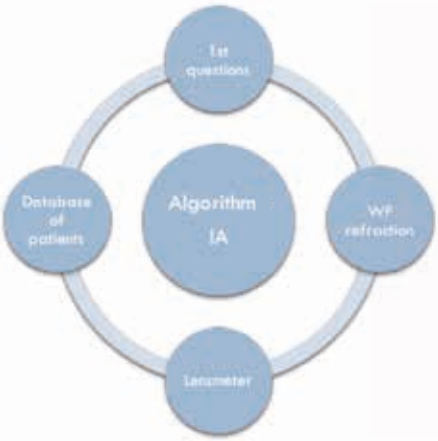
Eye Refract™ utilises a unique and innovative technology which integrates an automatic refraction measurement and a simultaneous iterative lens adjustment. This instrument has revolutionised the practice of refraction offering quick, accurate, and reliable measurements. Eye Refract™ allows eye care professionals to optimise time spent with patients who have a complicated prescription, clinical needs or to discuss other commercial options such as contact lenses or night driving spectacles.

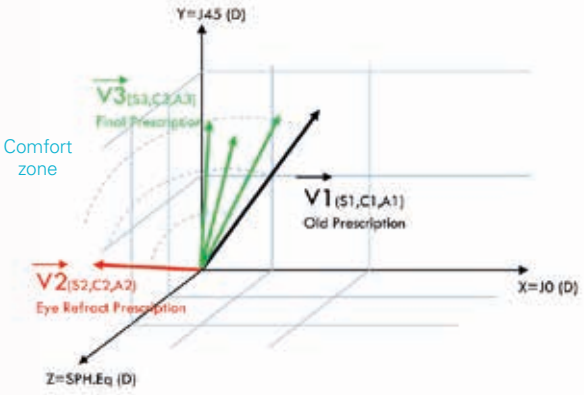
PERFECT VISUAL ACUITY IN LESS THAN 3 MINUTES

Eye Refract™ allows you to perform a precise and repeatable dynamic binocular refraction in less than 3 minutes in comparison with a standard refraction which takes 8 to 10 minutes. Less time for refraction, more time to interact with your patients.

MORE ACCURATE PRESCRIPTION

Accurate and reliable prescriptions offer maximum comfort in less time to the patients. Reproducibility is more accurate than traditional refraction. Reduce costly remakes due to accuracy of results.



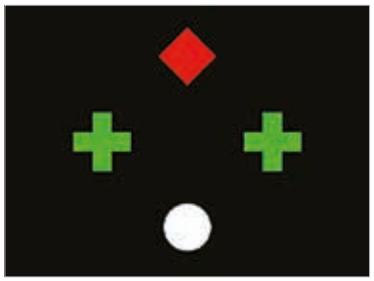


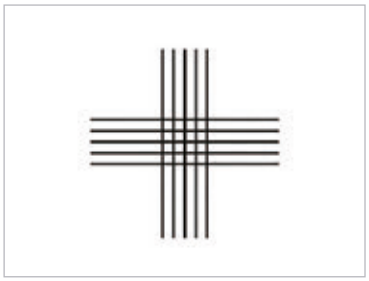
TIME SAVINGS

Drastically reduces waiting time and improves ultimate efficiency for your practice. More time to interact with your patients : dedicate more time for other clinical diagnostics or talk to the patient about their vision concerns.

EYE EXAM

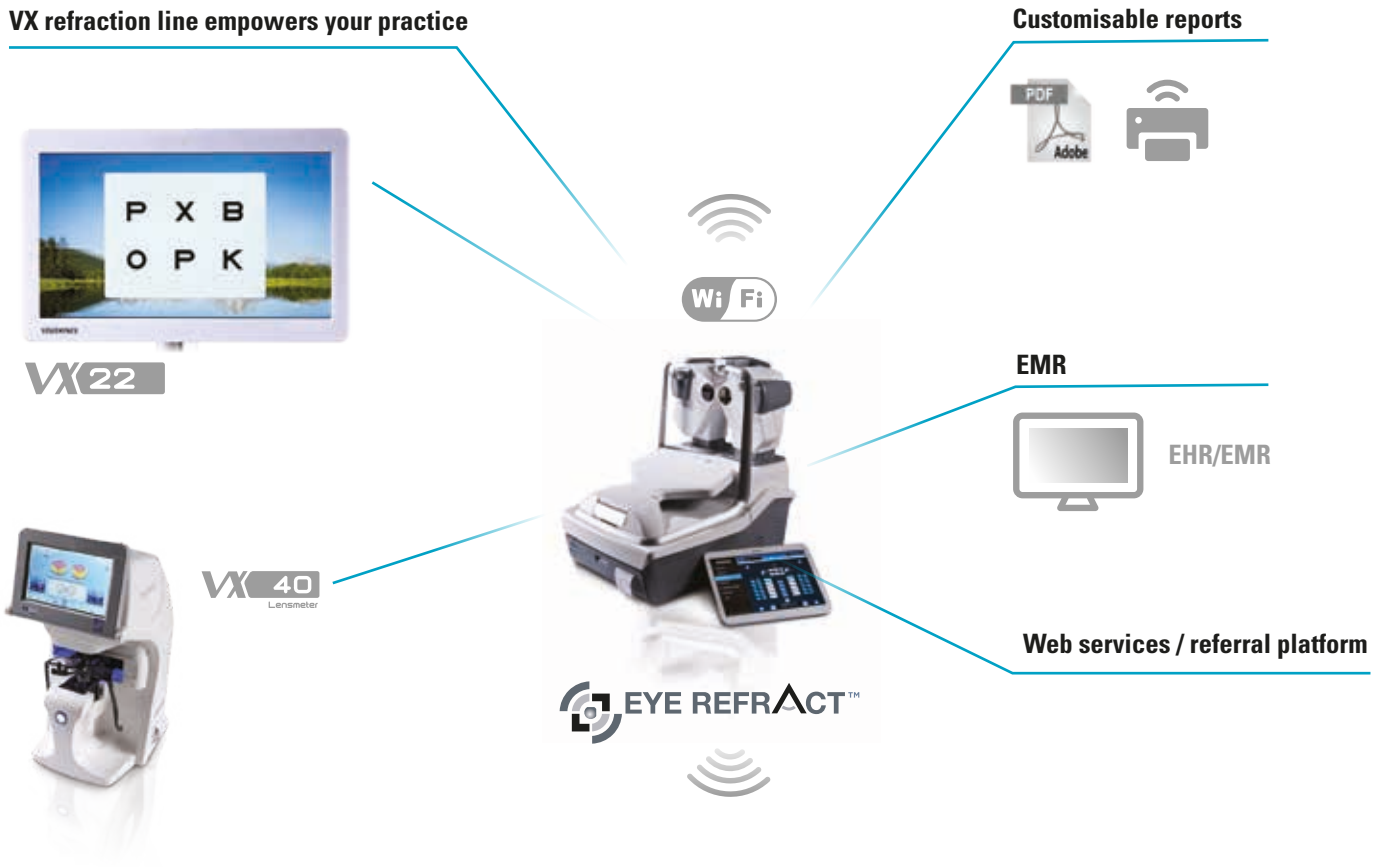
Eye Refract™ offers you more than a prescription. Thanks to Eye Refract™, you are able to have an auto-refracted reading of your patient's day and night refraction which will allow you to understand their visual issues and adapt your prescriptions and recommendations accordingly. According to the patient's issues and in addition to the refraction, you can perform an advanced eye exam using polarized tests, red/green tests, Jackson cross cylinders, prisms...





Additional tests to perform eye exam.

THERE IS THE POTENTIAL TO CONNECT THE EYE REFRACT TO OTHER DEVICES



NEW CONFIGURATIONS ADAPTABLE

STANDARD SPACE CONFIGURATION WITH THE NEW VISIONIX **VX22 LP** CHART DISPLAY

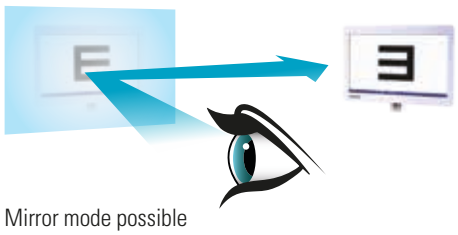
TABLET

VX22 LP

VX40

EYE REFRACT ™

Projection distance 2 to 8 metres
Mirror mode possible



Mirror mode possible

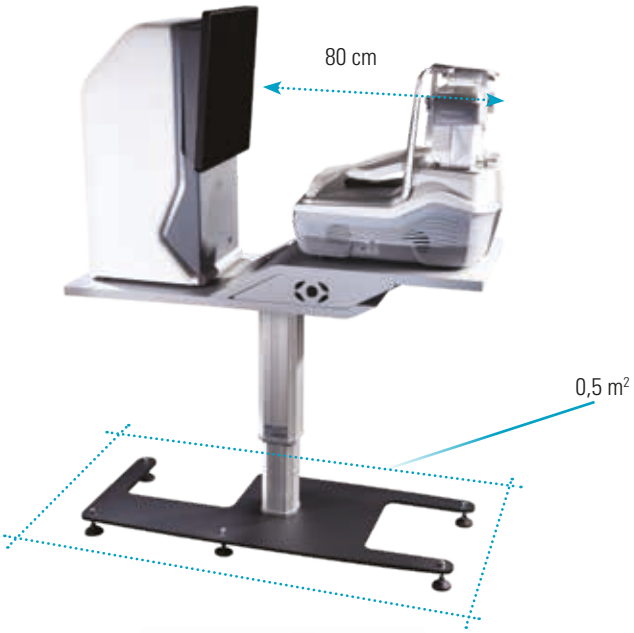
VX22 LINEAR POLARISED SCREEN CHART DISPLAY

This device features a linear polarisation to test binocular and stereoscopic vision allowing a perfect dissociation of the right eye/left eye. This offers the ability to proceed with many other tests with optimal quality for the examination of bi-ocular, binocular, and stereoscopic vision.

- New LCD display, with its 23.6" size
- This screen has been designed for optimal results in the exam room
- Ergonomic design
- Streamlined style
- Large number of tests including polarisation tests to use with the polarised frame supplied with the chart displays

TO YOUR ENVIRONMENT AND SPACE

SPACE SAVING CONFIGURATION WITH THE NEW VISIONIX **VX25** SPACE SAVING CHART



TABLET

VX25

VX40

EYE REFRACT ™

VX 25 Refraction

Working distance 0.8 meter

VX25 SPACE SAVING CHART

This screen has been designed for optimal results in the exam room pre screen area thanks to its ergonomic design, streamlined style, and the large number of tests included. This device is used for diagnostic purposes in ophthalmology, visual acuity and binocular vision testing.

- No obligation for a standard projection or with inverted mirrors
- Almost natural conditions, projection to infinity minimises the accommodation..
- High contrast and natural head position.
- The space saving chart has its own environment / independent lighting
- Wide choice of acuity scales
- Standard and regular tests (regular spacing between letters)
- Effective anti-reflection coating, black matt screen

Intended use: device used for diagnostic purposes in ophthalmology, visual acuity and binocular vision testing. - Medical device CE Class I
For health professionals - Read the instructions in the user manual carefully. - Manufacturer: Luneau Technology Operations - 04/19

EYE REFRACT™ THE NEW REFERENCE

MORE ACCURATE PRESCRIPTION

BEFORE EYE REFRACT™

Subjective answers from the patient = Uncertainty of the results

WITH EYE REFRACT™

Real time lens adjustment based on the patients brain reaction

Accurate and reliable prescriptions offer maximum comfort in less time to the patient

DELEGATION & TIME SAVINGS

BEFORE EYE REFRACT™

Longer waiting times for patients

WITH EYE REFRACT™

Drastic reduction of waiting time

The ultimate efficiency for your practice

PERFECT VISUAL ACUITY IN LESS THAN 3 MINUTES

BEFORE EYE REFRACT™

The average time of a standard refraction is 8 to 10 minutes

WITH EYE REFRACT™

Achieve binocular refraction in less than 3 minutes

Less dedicated time for refraction, more time to interact with your patients

LARGE RANGE OF OPTOTYPES AND TESTS

VX25 ⊕ VX22 LP

Letter

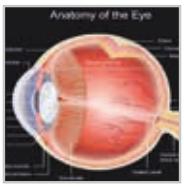
Digit


Landolts rings

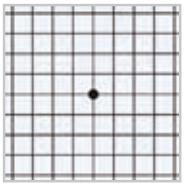

Snellen


Kids


Geometric



Learning Pic


Amsler

Sheridan

ETDRS

Astigmatism


Dot chart


Jackson Cross

Ishihara

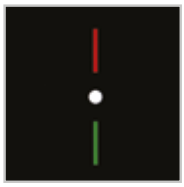

Kids Movie

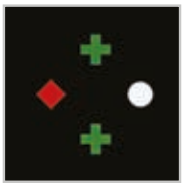
Polarised balance


Red green balance


Steroscopy

Mallet test


Fusion


Worth tests


Schober test

Pelli Robson


Regan test


Dazzle halo


Dazzle driver


Dazzle recup

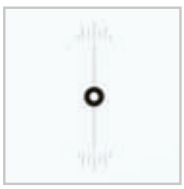
VX22 LP


Pola binocular balance


Binocular duochrome polarised


Binocular duochrome polarised


MKH 01 Cross


MKH02 indicator


MKH 03 double indicator


MKH 03 conicidence test


MKH 05 Stereo test with triangle


MKH 06 reduce stereo test with triangle


MKH 07 stereo balance test


MKH08 reduced stereo balance test


MKH09 differential test


MKH09 differential test B

MKH 12 Cowen test

Visionix 3D tests

Binocular immersive vision

EYE REFRACT™

Height	490 mm (19,3 in)
Width	290 mm (11,4 in)
Depth	470 mm (18,5 in)
Weight	25 kg (55 lbs)
Power	100/120, 220/240 V AC, 50/60 Hz
Voltage	230 V 50 / 60 Hz

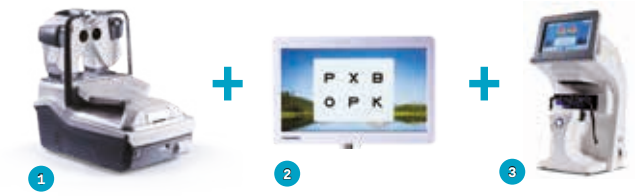
TECHNICAL SPECIFICATIONS

EYE REFRACT™

Output	• RS232 / USB2.0 / VGA / LAN • Embedded bluetooth / Wifi
Hardware	Tablet.....Android Chinrest.....Electrical Near Vision Target.....250-700 mm Mini tablet 7" Head.....Autofocus, autocentering
Range	Sph.....-30,00D to +27,25D Sph step.....0,125 / 0,25 / 0,50 / 1 D Cyl.....-6,00 to +6,00 D Cyl step.....0,25 / 0,50 / 1 D Optical axis.....0 to 180° Axis step.....1° / 5° / 10° / 45° Prisms.....0 to 20 D
Communication	

CONFIGURATIONS

1



EYE REFRACT™ + VX22 Chart Display + VX40 Lensmeter

REF.	
• **Eye Refract™**	30230000-00
• **VX22 LP**	8241-0022-40
• **VX40**	3014-0000-00
• **Table VX40-ER**	8160-0025-00

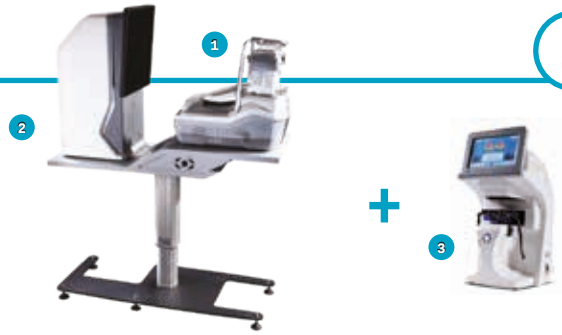
Dimensions

2 VX22 chart display
H 380 mm (14,96 in.) x W 585 mm (23,03 in.)
x D 46 mm (1,81 in.) - Weight 3,8 Kg (8, 38Lbs)

3 VX40 Wavefront analyser
H 455 mm (17,90 in.) x W 220 mm (8,66 in.) x D 240 mm (9,44 in.)
Weight 9 kg (20 lbs)

4 Eye Refract table
Adjustable height side from 675 to 925 mm (26.57 to 36.42 inc.)
x W 1090 (42,91 in.) x D 460 mm (18,11 in.)
Weight 38,5 Kgs (83.78 lbs)

2



VX25 Refraction + EYE REFRACT™ + VX40 Lensmeter

REF.	
• **Eye Refract™**	30230000-00
• **VX25**	8225-0000-00
• **VX40**	3014-0000-00
• **Console VX40**	8160-8025-00
• **Table VX25-ER**	8160-0025-00

Dimensions

2 VX25 space saving chart
H 660 mm (25,98 in.) x W 320 mm (12,60 in.) x D 325 mm (12,79 in.)
Weight 25 Kg (55.12 Lbs)

3 VX40 Wavefront analyser
H 455 mm (17,90 in.) x W 220 mm (8,66 in.) x D 240 mm (9,44 in.)
Weight 9 kg (20 lbs)

4 Eye Refract Table
Adjustable height side from 675 to 925 mm (26.57 to 36.42 inc.) x W 1090 (42,91 in.) x D 460 mm (18,11 in.)
Weight 38,5 Kgs (83.78 lbs)

5 VX40 console
H828 mm (32,60 in.)x W 320 mm (12,60 in.) x D 359 mm (14,13 in.)

Luneau Technology
VISIONIX briot WECO

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