Revolutionising the practice of refraction

THE FIRST EVER
BINOCULAR DYNAMIC EXAM
VISIONIX HAS DEVELOPED A NEW METHOD OF REFRACCTION

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.
**THE FULL CONCEPT**

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

**Distance Vision Measurement for small space**

**Distance Vision Measurement for normal space**

**Fully automatic lens analyser**

**Wireless Capability using a Tablet Remotely**

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**BINOCULAR VISION**

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

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**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).
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 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...

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

VX refraction line empowers your practice

Customisable reports

EMR

Web services / referral platform

VX22

VX40
NEW CONFIGURATIONS ADAPTABLE

STANDARD SPACE CONFIGURATION WITH
THE NEW VISIONIX VX22 LP CHART DISPLAY

Projection distance 2 to 8 metres
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
SPACE SAVING CONFIGURATION WITH THE NEW VISIONIX VX25 SPACE SAVING CHART

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

Working distance 0.8 meter

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

DELEGATION & TIME SAVINGS
BEFORE EYE REFRACT™
Longer waiting times for patients

WITH EYE REFRACT™
Drastic reduction of waiting time

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

Letter Digit Landolt's 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

VX25 + VX22 LP

Pola binocular balance Binocular duochrome polarised Binocular duochrome polarised MKH 01 Cross MKH02 indicator MKH 03 double indicator MKH 03 coincidence 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
The Eye Refract is a computerized phoropter that can be used by eye-care professionals to determine patients’ required refractive correction. The machine produces an initial wavefront estimate of the patient’s refraction, and enables the practitioner to complete the prescription through a traditional subjective test.

**Dimensions**

**1. VX22 chart display**
- Height: 380 mm (14.96 in.)
- Width: 585 mm (23.03 in.)
- Depth: 46 mm (1.81 in.)
- Weight: 3.8 Kg (8.38 lbs)

**2. VX40 Wavefront analyser**
- Height: 455 mm (17.90 in.)
- Width: 220 mm (8.66 in.)
- Depth: 240 mm (9.44 in.)
- Weight: 9 Kg (20 lbs)

**3. Eye Refract table**
- Adjustable height side from 675 to 925 mm (26.57 to 36.42 in.)
- Height: 909 mm (35.81 in.)
- Width: 1090 mm (42.91 in.)
- Depth: 460 mm (18.11 in.)
- Weight: 38.5 Kg (83.78 lbs)

**Configuration options**

**1. Configuration**
- **Eye Refract™**
- **VX22 LP**
- **VX40**
- **Table VX40-ER**

**2. Configuration**
- **Eye Refract™**
- **VX25**
- **Console VX40**
- **Table VX25-ER**

**Output**
- RS232 / USB2.0 / VGA / LAN
- Embedded bluetooth / WIFI

**Hardware**
- **Tablet**
- **Chinrest**
- **Near Vision Target**
- **Head**
- **Software**

**Range**
- Sph
- Sph step
- Cyl
- Cyl step
- Optical axis
- Axis step
- Prisms

**Communication**
- WiFi

**Technical Specifications**

**Dimensions**
- 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

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**Dimensions**
- **VX25 space saving chart**
  - Height: 660 mm (25.98 in.)
  - Width: 320 mm (12.60 in.)
  - Depth: 250-700 mm

**Dimensions**
- **VX40 console**
  - Height: 828 mm (32.60 in.)
  - Width: 320 mm (12.60 in.)
  - Depth: 359 mm (14.13 in.)

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