TECHNICAL SPECIFICATIONS

**VX 160 EYEREFRACT**

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

**Hardware**
- Tablet: Android
- Chinrest: Electrical
- Near Vision Target: 250-700 mm
- Head: Autofocus, autocentering

**Range**
- Sph: -30.50 to +23.25 D
- 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

**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

**Technical Specifications**

LUNEAU TECHNOLOGY OPERATIONS
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REDEFINING REFRACTION

Eye Refract features a dual Aberrometer that utilizes a unique and innovative technology which couples an automatic refraction measurement and a simultaneous iterative lens adjustment. This instrument has revolutionized the practice of refraction offering quick, accurate, and reliable measurements. Eye Refract allows eye care professionals to optimize time spent with patients by offering a highly customized experience with an exceptionally accurate prescription.

THE FULL CONCEPT:

PERFECT VISUAL ACUITY IN LESS THAN 1 MINUTE

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

WITH EYE-REFRACT
Achieve binocular refraction in just 2 minutes

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

MORE ACCURATE PRESCRIPTION

BEFORE EYE REFRACT
Refraction bias induced by the patient uncertainty

WITH EYE-REFRACT
Real time lens adjustment based on patient brain reactions

Accurate and reliable prescriptions offer maximum patient comfort in less time

TIME SAVINGS

BEFORE EYE REFRACT
Patients experience longer wait times

WITH EYE-REFRACT
Drastic reduction in waiting time

The ultimate efficiency for your practice

The full Concept:
Eye Refract features a dual Aberrometer that utilizes a unique and innovative technology which couples an automatic refraction measurement and a simultaneous iterative lens adjustment. This instrument has revolutionized the practice of refraction offering quick, accurate, and reliable measurements. Eye Refract allows eye care professionals to optimize time spent with patients by offering a highly customized experience with an exceptionally accurate prescription.

Fully Automatic: Eye Tracking, Auto-Focusing
Distance and Near Vision Measurement
Controlled Wirelessly via Tablet Interface
VISIONIX HAS DEVELOPED A NEW METHOD OF REFRACtion

Eye Refract features two Shack-Hartmann sensors running simultaneously to provide real-time binocular refraction. These sensors combined with the phoropter head allow Eye Refract to automatically correct visual defects.

Eye Refract is based on patented Wavefront Technology developed by Visionix®.

Wavefront technology offers measurement of the eye at thousands of points whereas traditional technologies measure a singular point or just a few points.

Visionix® patented a method which miniaturized this technology. This process enabled incorporation of a one-of-a-kind dual aberrometer system found in the Eye Refract. This allows binocular refraction in real-time, producing exceptional accuracy.

Eye Refract is controlled by a tablet remote which allows the operator freedom of movement.

Near vision refraction screen

Measuring screen

Refractive screen wheel accessories

Back screen control display

Pupillary distance

Refractive visualization
THE TECHNOLOGY OF TOMORROW IS AVAILABLE TODAY

BINOCULAR VISION

Monocular measurement in a binocular environment offers a more precise and comfortable prescription based on individual visual behavior.

NEAR VISION MEASUREMENT

True addition which takes into account real distance results in unmatched comfort for your patients.

AUTOMATIC MEASUREMENT

Easy-to-use refractive instrument featuring highly repeatable results independent of operator, patient, or methods used.

ULTRA FAST PROCESS

Featured Technology:
- Auto-focus, Auto-tracking, simultaneous measurement. Both measurement and refraction verification occur at the same time.
- Full connectivity and data transfer (VX 40, VX 24, PC).

- More Natural Measurement
- Quick Process for Maximum Patient Comfort and Time Savings
- Highly Accurate Prescriptions