



## TECHNICAL SPECIFICATIONS

### VX 160 | EYEREFRACT

<b>Output</b>	<ul style="list-style-type: none"><li>• RS232 / USB2.0 / VGA / LAN</li><li>• Embedded bluetooth / Wifi</li></ul>
<b>Hardware</b>	Tablet ..... Android Chinrest..... Electrical Near Vision Target ..... 250-700 mm Mini tablet 7" Head ..... Autofocus, autocentering
<b>Range</b>	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



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



Tomorrow's Vision Today

REVOLUTIONARY  
REFRACTION TECHNOLOGY



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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:



Fully Automatic: Eye Tracking, Auto-Focusing

Distance and Near Vision Measurement

Controlled Wirelessly via Tablet Interface

## 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



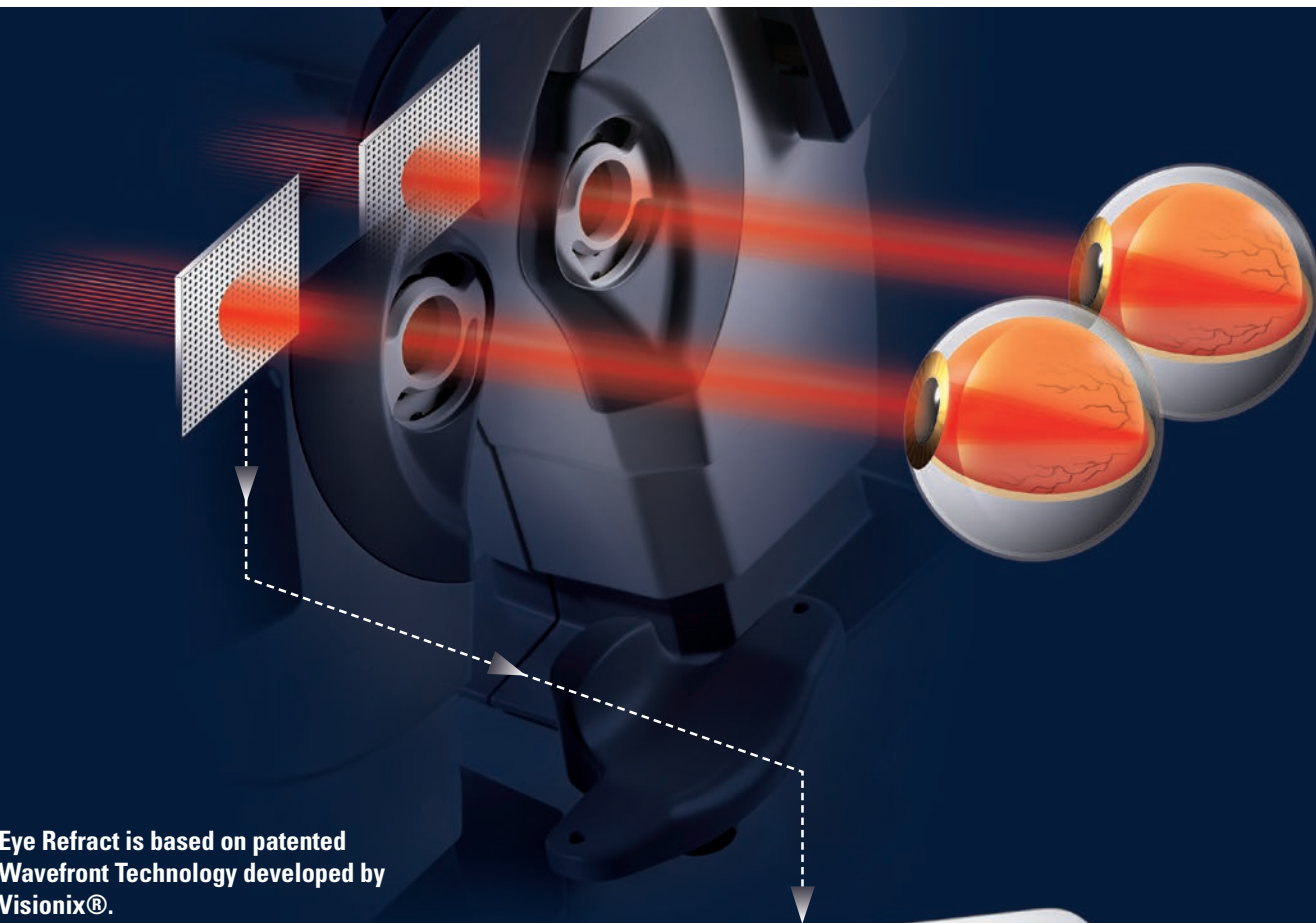
The ultimate efficiency for your practice



# WAVEFRONT TECHNOLOGY

## 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®.

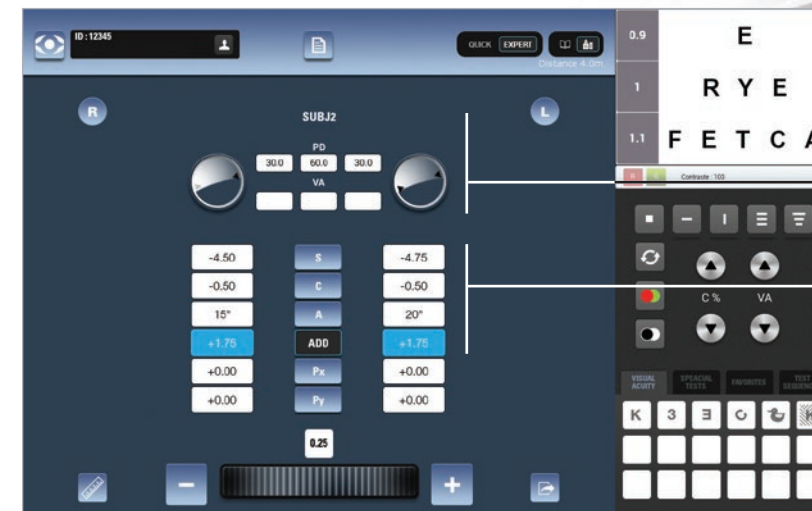
Wavefront technology offers measurement of the eye at thousands of points whereas traditional technologies measure a singular point or a just a few points.

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 a real-time, producing exceptional accuracy.



## WIFI ENABLED TABLET REMOTE

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

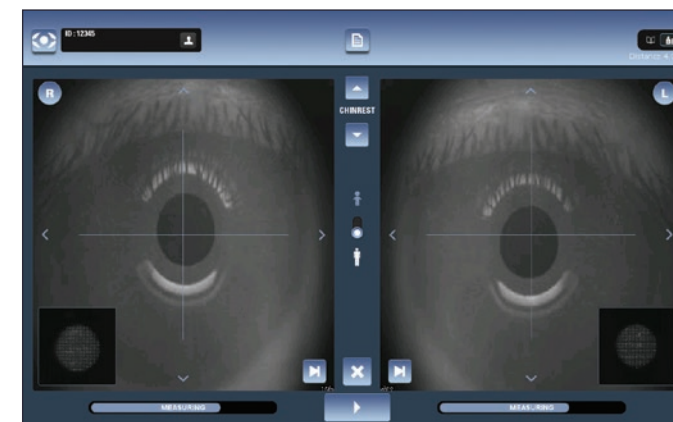


Near vision refraction screen

Back screen control display

Pupillary distance

Refraction visualization



Measuring screen



Refraction screen wheel accessories



# 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