

## TECHNICAL SPECIFICATIONS

### • Automatic Lensmeter

#### Functions:

- Measurement of all types of lenses at two different precision levels: Fast, Layout.
- Measurement in dry conditions of all types of contact lenses.
- Automatic Addition Measurement of any Progressive Lens.
- Does not require Abbe number compensation.
- ISO 8598 compliant.

#### Range of measurements:

Lens diameter: from 5 to 95mm.  
 Sphere: -20.00 to +20.00D.  
 Steps: 0.01D / 0.06D / 0.12D / 0.25D.  
 Cylinder: -10.00D to +10.00D. Steps:  
 0.01D / 0.06 / 0.12D / 0.25. Axis: from 0  
 to 180 degree.  
 Steps: 1degree.  
 Prism: -10.00D to +10.00D.  
 Steps: 0.01D / 0.06 / 0.12D / 0.25D.  
 Addition: 0 to 10.00D.  
 Steps: 0.01D / 0.06D / 0.12D / 0.25D.

### UV Transmission (optional)

#### Direct reading of the UVB, UVA and Visible.

- Transmission and Absorption.
- Display: Graph, Histogram.
- ISO Standard presentation.
- Spectral Range: 290-700 nm.
- Spectral Resolution: 5nm.
- Transmission Resolution: 1%.

### Refractive Index Measurement Measurement of the lens material Refractive Index.

- Range: 1.50 to 1.90.
- Accuracy: 0.05.
- minimum lens power: 3.00 D.

### • Frame and Lens analysis

#### Lens Analysis:

- Real Time Power Mapping of different types of lenses.
  - Automatic Measurement of Addition and Far Vision of Any Progressive Lens.

#### Frame Analysis:

- Schematic representation of Frame Fitting.
- Pupillary Distances Measurement.
- Right and Left Fitting Heights.
- Automatic Measurement of the Progressive Addition.
- Diagrammatic representation of the progressive addition channel.

#### Range of measurements:

- Lens diameter: from 5 to 95mm.
- Steps: 0.25D / 0.50D.
- Sphere: -10.00D to +10.00D.
- Cylinder: -10.00D to +10.00D.
- Axis: from 0 to 180 deg (Steps: 1 deg).
- Prism: -10.00D to +10.00D.
- Addition: 0 to 10.00D.

### General characteristics

- Complies with CE / UL Standards.
- Measurements performed in ISO light centered on the 546 nm wavelength.
- Dimensions: L 290xD 310xH 510 mm.
- Weight: 17kg.
- Working conditions: +10 degree to +40 degree, a maximum thermal gradient of 10 degree/hour.

#### Electrical power:

- Supply voltage: 230V / 110V.
- Frequency: 50 / 60Hz.
- Power rating: 100 Watts.
- Flat LCD display screen, 256k colors, 10.4 - inch diagonal / resolution 640x480 pixels.
- Internal printer, External printer optional.

## VISIONIX A Vision of the Future

Established in 1994, VISIONIX helped chart a new course for Ophthalmic lens and mold analysis when it introduced its PowerMap systems, based on the Hartmann Wavefront 3-D Technology. Aside from these unique systems designed for lens, contact lens and mold manufacturers and laboratories, VISIONIX also develops New Powerful Instrumentation for the Opticians, Ophthalmologists and Optometrist market. The VL3000 is today distributed to European opticians and laboratories market by ESSILOR and distributed in the U.S.A. to the Opticians and Ophthalmologists market by MARCO Technologies. With offices and R&D facilities in Israel and the United States, VISIONIX' wide customer-base includes leading companies in the fields of Optics, such as: Ciba Vision, Vistakon, Bausch & Lomb, Rodenstock, Zeiss, Essilor, Hoya, Seiko, Pentax, the Fairchild Corporation...etc.



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# Measuring Spectacles has never been easier!!!



## POWERmap

# VL 3000

For Opticians,  
Ophthalmologists  
& Optometrists

Frame Analysis

Lens Power Mapping Automatic

Lensmeter Refractive Index

Measurement

UV and Visible Light Transmission



## VISIONIX

A Vision of the Future





# Lens & Frame Analysis System

*Measuring Spectacles has never been easier!!!*

## VISIONIX Power Mapping

Until now, ophthalmic lens analysis has been conducted through a one-point-at-a-time lensmeter measurement process, providing limited information on only one small portion of the optic element.

POWER MAPPING by Visionix makes the impossible possible, by quickly, accurately and simultaneously measuring all of the optical parameters of an entire lens.

Within seconds, Opticians, Ophthalmologists and Optometrists can obtain a Comprehensive and Accurate picture of the entire lens and a Full Analysis of a Complete Frame.

## More than just a

## Lensmeter

The

VL3000 includes

all of the essential

functions to

provide the

highest level of Measurement and the most

accurate checking of corrective lenses.

But the VL3000 offers significantly more. In

fact, the VL3000 provides four different modes:

Automatic Lensmeter mode, Frame and Lens

Analysis mode, UV Transmission mode and

Refractive Index Measurement mode, all to help you

save time and money. This User- Friendly Lens

Analyzer includes a Large Color Screen, Easy to Use

push buttons, on-line Help

and is available in 11 different languages. With

the VL3000, your customer will benefit from

Visionix State of the Art Technology.



F r a m e  
l y s i s



## Single Vision Frames

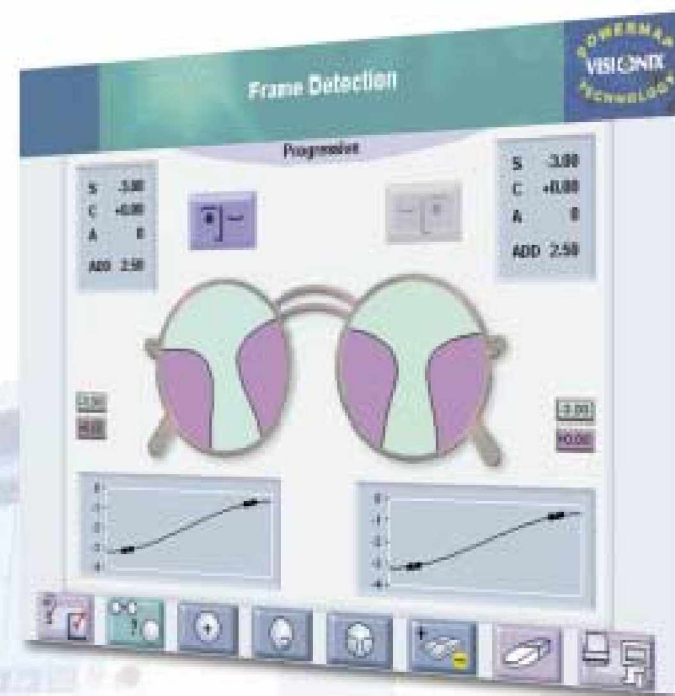
- Visual Color Representation of the Frame can be viewed and the final product can be checked.
- In a single measurement, all mechanical and optical characteristics for both eyes are displayed in one picture.
- Measurement of Horizontal and Vertical pupillary distance.
- Fast and Objective Sphere, Cylinder, Axis and Prism.
- One-step measurement of the Addition in Bifocal frames.

## Power Mapping

- Ability to check Lens Design.
- Analysis of the channel width for any Progressive Lens. This valuable information can help determine which lens is most suitable for the customer.
  - Automatic Measurement of the Addition, simply by placing the progressive lens on the holder. No Further Interaction Required.
- Rapid Detection of Spherical and Aspherical lenses through a special Binocular Color Mapping Display.
- Quick Analysis of the measurements for Sphere, Cylinder and Axis.



A n a



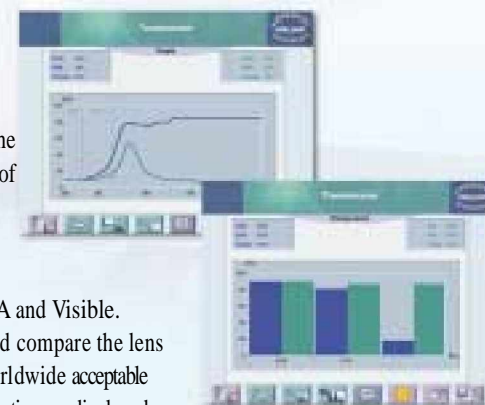
## Progressive Frames

- One-step, Automatic Addition measurement.
- Accurate, Objective Measurement of all optical parameters.
- Schematic Representation outlining the Direction of the Progressive Corridor.
- Separate graph displaying the curve of the power of the lens along the progressive corridor and the difference between the power of the Far and Near Vision values.

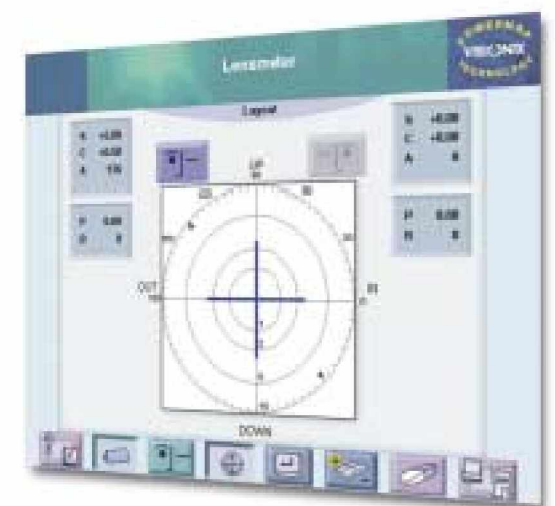
## UV and Visible Light Transmission

As an optional feature, the VL3000 offers an Analyzer of UV Spectrum.

This analyzer indicates the Spectral Transmission of an unknown lens for UVB, UVA and Visible. Graphically, you can view and compare the lens you are measuring against worldwide acceptable Standards. Transmission and Absorption are displayed as a full Graph or as a Histogram.



## Automatic Lensmeter



- Highest Quality and Accuracy offered today.
- Fast centering of any type of lens.
- Easy ability to mark axis for toric lenses.
- 2 options of precision: Fast or Layout.
- Newly designed Automatic Addition Measurement.
- Large LCD Color Monitor.
- Fast contact Lens Measurements.

## Refractive Index Measurement

Measurement of the Lens Refractive Index is now possible through a Patented system by Visionix.

