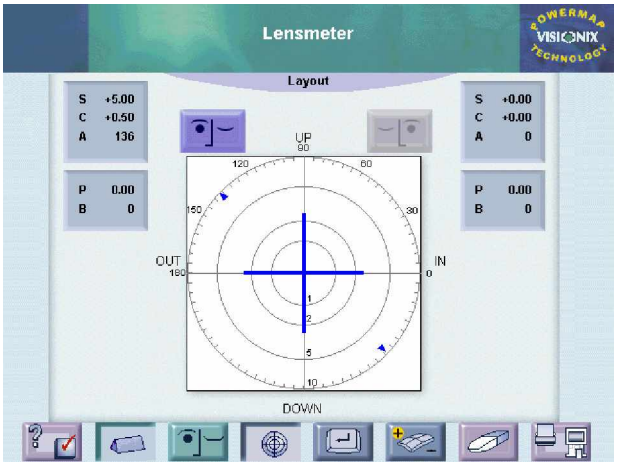
VL 500 POWER map

New Automatic High Level Lensmeter



FOCIMETER MODE

Simplified centering and axis setting

A simple operation which is accomplished in a few se- conds.

The VL 500 rapidly locates and meseaures the optical center of the lens, thus allowing a saving of time and money by opticians who have a large number of lenses to measure or who are measuring very low-correction lenses. The VL 3000 guarantees an optical centering to less than 0.25 prismatic diopters in this case.

Precision centering and axis setting

The extremely precise and original logarithmic display allows the position of the axis and of the optical center to be located with the highest accuracy currently available on the market. This precise location of the optical center eli- minates every harmful error before grinding begins.

The sphere, cylinder and axis values are displayed for the lenses as well as for prisms and the prismatic angle.

The guided search for the addition of a progressive lens

The measurement of unifocal, bifocal and progressive lenses (marked or not) is henceforth a simple operation which gi- ves accurate results instantaneously.

LENS ANALYSIS MODE

Detection of a lens

The VL-500 rapidly detects the characteristics of an unknown lens (spherical, toroidal, etc...).

Movement of lens on the adapted support instantaneously alters the display on the screen. If is therefore possible to obtain an indication of the para- meters of the whole of the lens, in an area which is never- theless limited by the support.

For a progressive lens, the VL-500 automatically determi- nes the value of the addition.

For the fitting of unifocal lenses

The VL-00 automatically detects the minimum prism point.The indication of the 1/2 pupillary distances and the height differential is therefore possible.

For progressive fittings

A schematic representation (identical for each lens, wha- tever its power) materializes the direction of the progres- sion corridor.

A graph in vertical section representing the power of the lens along the progression corridor is displayed at the bot- tom of the screen. The difference between the power of the near vision and far vision values is represented on the graph.

A VISION OF THE FUTURE

VL 500

TECHNICAL SPECIFICATIONS

Focimeter mode

Functions:

•Measurement of all types of lens at two different precision levels

• Standard or Expert

•Measurement in dry conditions of all types of contact lenses

•Manual reading of varifocal lens addition.

•Automatic compensation for the Abbe number using a 540 nm ISO source.

•ISO 8598 compliant.

Range of measurements:

•Lens diameter: from 5 to 95mm

•Sphere: -20.00D to +20.00D

•Steps: 0.01D / 0.06D / 0.12D / 0.25D

•Cylinder: -10.00D to +10.00D

•Steps: 0.01D / 0.06D / 0.12D / 0.25D

•Axis: from 0 to 180°

•Steps: 1°

•Prism: -10.00D to +10.00D

•Steps: 0.01D / 0.06D / 0.12D / 0.25D

•Addition: 0 to 10.00D

•Steps: 0.01D / 0.06D / 0.12D / 0.25D

Lens analysis mode

Functions:

•Automatic detection of the different types of lenses.

•Automatic measurement of distance prescription and addition

•Schematic representation of fitting details:

Single vision details:
-Momocular pupillary distances

-R&L fitting heights

Varifocal details:
-Diagrammatic representation of the orientation of the progressive addition channels

-Automatic measurement of the progressive addition

Range of measurements:

•Lens diameter: from 5 to 95mm

•Sphere: -10.00D to +10.00D

•Steps: 0.25D / 0.50D

•Cylinder: -10.00D to +10.00D

•Steps: 0.25D / 0.50D

•Axis: from 0 to 180°

•Steps: 1°

•Prism: -10.00D to +10.00D

•Steps: 0.25D / 0.50D

•Addition: 0 to 10.00D

•Steps: 0.25D / 0.50D

General characteristics:

•Compiles with CE standards.

•Measurements performed in ISO light: centered on the 546 nm wavelength

•Dimensions: L290xD310xH510mm

•Weight: 17 Kg.

•Working conditions: +10°C to +40°C, a maximal thermal gradient of 10°C/hour

•Electrical power:

-Supply voltage: 230V
-Frequency: 50 / 60 Hz
-Power rating: 100 Watts

•Flat LCD display screen, 64,000 colors, 10.4-inch diagonal resolution 600x800 pixels

•Built-in graphic thermal printer.

VISIONIX

A VISION OF THE FUTURE

Established in 1994, VISIONIX helped chart a new course for ophthalmic liens and mold analysis when lit introduced lit PowerMap systems, based on the Hartman Wave front

3-D Technology. Aside from these unique systems designed for liens, contact liens and mold manufacturers and laboratories, VISIONIX also develops metrological technology and 3D vision systems for building, construction, aerospace and military applications. With offices and R&D facilitie in Israel and the United States VISIONIX' wide customer base includes leading companies in the fields of optics, construction and aeronautics: Ciba Vision, Vistakon, Bausch & Lomb, Rodenstock, Zeiss, Essilor, Hoya, Seiko, Pentax, the Fairchild Corporation ... etc

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POWER MAPPING
Ensuring Optimum Optic Measurement Analysis

Up until now ophthalmic lens and mold analysis has been conducted through a one-point-at-a-time lensmeter measurement process, providing limited information about one small portion of the optic element.
POWER MAPPING makes the impossible possible, by quickly and simultaneously measuring all the optical parameters of an entire lens, contact lens or mold. Within seconds, lens manufacturers and labs are able to obtain a comprehensive and accurate picture of the lens' sphere, cylinder, axis & prism. With POWER MAPPING users benefit from a significant advantage:
it ensures an instant, accurate and comprehensive examination of the entire optical element for the purposes of Research & Development, Production and final Quality Control.

HARTMAN WAVEFRONT 3-D TECHNOLOGY
The Preferred Technology For Power Mapping

The unique Hartman Wavefront 3-D Technology is based on a micro-optic matrix, in which each micro-optic analyzes a small part of the entire lens. As a result, the Hartman Technology provides an entire analysis of a lens in one measurement acquisition the equivalent of 1,000 measurements performed by classic lensmeters.
Supplying the optical information of the lens from ail directions, this unique 3-dimensional technology does not have any moving parts, providing more accurate and faster analysis. A flexible and powerful technology, it provides measurements of ail optical elements (lens, contact lens, mold) in transmis- sion or reflection. Finally, because there are no motorized parts, the Hartman Technology is mainte- nance-free.

POWERMAP SYSTEMS FROM VISIONIX
Optical Power Mapping Systems Based On The Hartman Technology

VISIONIX' PowerMap systems have fast become the standard in today's ophthalmic industry. Affordable, high precision measurement analysis mapping stations, they provide an accurate, fast and objective analysis of the entire lens in one picture frame measurement.
VISIONIX' PowerMap systems are user-friendly (WINDOWS environment) and do not have any mov- ing parts. The only mapping equipment incorporating Hartman Technology,
VISIONIX' PowerMap systems are the most accurate, fast and durable (maintenance-free) systems on the market.
VISIONIX' PowerMap systems are the cost effective solutions for increasing your efficiency and streamlining your work load.

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