



Automation & Robotics

FOCOVISION SR-3

FOCOVISION SR-3: By Reflection (local curvature measurement by reflection over polished surfaces.

The Focovision by Reflection SR-3 is used in the production of semi-finished lenses, glass and metal molds, but also in prescription laboratories to control the incoming semi-finished lenses. It measures the surface optical power by reflection on one point with a high degree of accuracy. The measured value can be expressed in curvature or in diopter. The Focovision by Reflection has become a worldwide reference instrument throughout the ophthalmic industry.



Main Features



- Result display with different modes: radii along principal axes, base power, addition value and astigmatism for any index value,...
- Best mean optical behaviour of the lens (360 degree measurement)
- Measurement Area :
 - RESULT = mean value inside a circle of approx. 4 mm diameter.
 - RESULT = calculation taking into account the optical power of the surface in all directions

Type : SR-3

Technical Specifications



Range :

OPTICAL POWER in the main axes : -12D to +12D (assuming 1.5 index - the range expressed in diopters is larger for higher index values)

ADDITION : any value if measurements are inside the above limits

Long life and easily replaceable lamp

RS232 communication interface

Dimensions :

Instrument box : 190(H) x 400(W) x 400(D)

Weight : Instrument 10 kg. Display : 11 kg

Power Source : A.C. 50-60 Hz ,
100-240 V, on request

Power Consumption : 150 W (with display)

Benefits



- High accuracy (0.01D for the base power, less than 0.01D for the residual astigmatism of the instrument)
- Very high reproducibility
- Precise and reproducible positioning of the lens according to reference points marked over the lens surface
- Simple and rapid autocalibration procedure
- No moving parts (behaviour stability, simple lighting system, ...)
- Linear instrument response (no mechanical adjustments are necessary)
- Reliability : Image quality control & automatic correction of dust effect
- Measurement time : in practice, instantaneous for the operator (including tolerance checks)

Options



- Holding device
- Ticket printer (user configurable ticket)
- Positioning device for metal molds
- High curve cap convex : +12D to +22 D
- High curve cap concave : -12D to -22 D

LATEST DEVELOPMENT:

- The NEW FOCOVISION SR-3 software is based on Windows 10 Embedded OS.
- The easy to exchange and long-life LED light source provides an accurate ring image. Effect of local defects (dusts,...) are detected and corrected using a proprietary technology leading to the best accuracy in lab conditions.

The sale of all of Automation & Robotics products is subject to the company's applicable Warranty and Limitations of Warranty and to the company's Standard Terms and Conditions of Sale.

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