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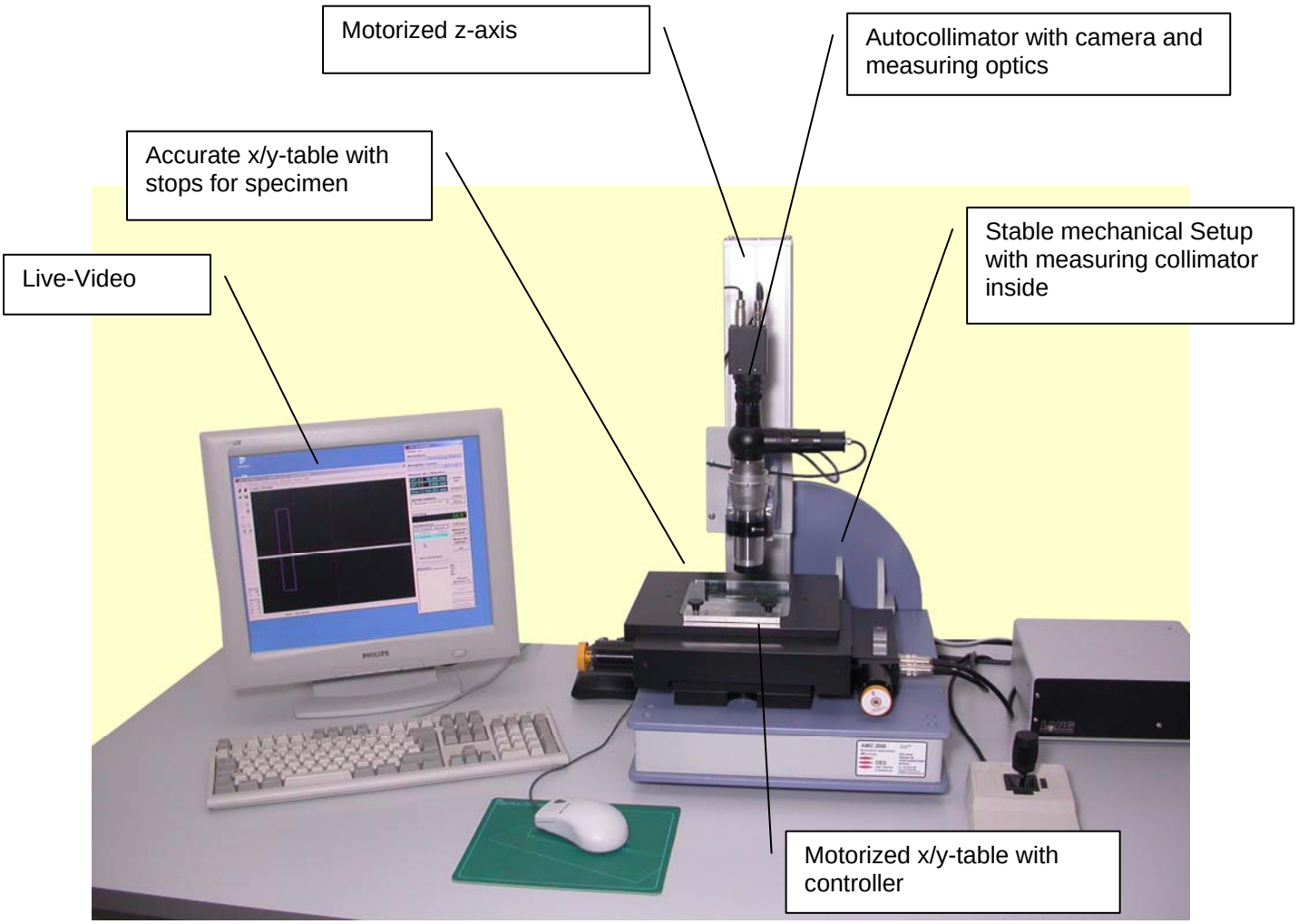
OTS-Z

Test Station for optical and geometrical parameters of cylindrical optics



OTS-Z is a computer controlled measuring instrument for optical and geometrical parameters of cylindrical lenses. It is characterized by automatic measuring sequences for numerous parameters, a large measuring range and a simple operation. **OTS-Z** is suited for the most measuring tasks, which appear in practice. **OTS-Z** supplies accurate measuring results in short measuring times.

Measuring parameters

-effective focal length (EFL)
-Back focal length (BFL)
-Radius of curvature (R)
-Flange focal length (FFL)
-Missmatch between the axis of the cylinder and the mechanical center line
-Twist between the axis of the cylinder in relation to the outer edge of the lens.

OEG GmbH, Wildbahn 8i, 15236 Frankfurt(Oder) / Germany
Phone: +49 335 5213894, Fax: +49 335 5213896, eMail: info@oeggmbh.com

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Measurement of cylinder axis missmatch in transmission / reflexion

This function performs the measurement of the mismatch between the vertex line of the cylinder axis and a reference, usually the outer edge of the cylinder lens.
The specimen is positioned on the x/y-table on a stop. The measuring head is focussed on the cylinder axis, so that a reflex-image appears (a line).
The line position is measured highly accurately by the software.
Afterwards the specimen is rotated by 180° and positioned again at the stops on the table.
The mismatch results from the shift of the line position.
The measurement is possible also in transmission.

Twist between the axis of the cylinder in relation to the outer edge of the lens.

This function performs the measurement of the twist between the cylinder axis and a reference, usually the outer edge of the cylinder lens.

The measurement uses the motorized x/y-table. The specimen is positioned on the stop on the table. The measuring head is focussed on the cylinder axis, so that a reflex-image appears (a line).
Afterwards the table is moved parallel to the stops, so that the cylinder axis is scanned by the measuring head. If there is a twist between the cylinder axis and the outer edge of the lens, the reflex image moves. The movement is measured very accurate depending from the measuring position. From this measurements the software computes the twist angle.

The measurement is possible also in transmission.

Measurement of focal length and radius

For the measurement of
-effective focal length (EFL)
-Back focal length (BFL)
-Radius of curvature (R)
-Flange focal length (FFL)

Please refer to the OTS-200 manual. The measuring functions are comparable.

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