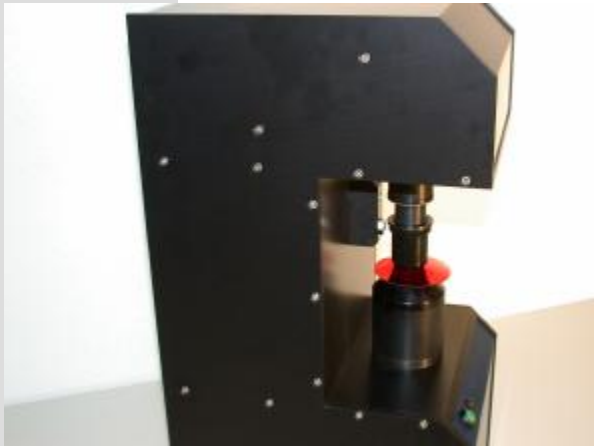


TRANSMISSION MEASUREMENT STATION

Partner



Rodenstock is a well known and one of the worldwide leading manufacturer of ophthalmic lenses.



Application

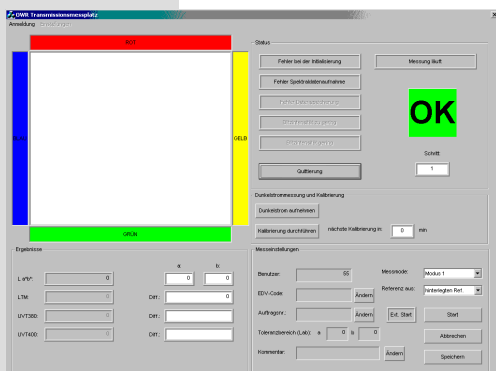
In cooperation with Rodenstock **tec5** designed and developed a production control system for the measurement of spectral characteristics of cylindrical grinded ophthalmic lenses with variable mechanical dimensions and refractive power. The transmission of the coloured eyeglasses is measured over the wavelength range of 280-780nm. Based on this data the chromaticity coordinates and several colorimetric values are calculated. The results are shown clearly arranged on-line on a display and simultaneously stored in a data base.

Software

The easy to use application software visualised the most important measurement results for the user in a transparent structure. Additionally it controls the total system and analyses and archives the measured spectral data.

Two user levels are available: The first – general user – level allows the performance of all necessary measurement procedures. The second – administrator – level is secured by password and allows to set and/or change parameters for the measurement procedure respectively to control the principal functions of the system.

An SQL database is provided for total archiving, with several measurement systems accessing one central database.



EDV-Codes and Database search

For fast and easy judgement of the production status the EDV-Code of a reference sample in the data base has to be entered into the software. After that the sample will be measured and compared to this reference or optionally to all available entries of the reference database.

Optionally it is also possible to read the order number through a barcode on the order form. The relevant data are automatically transferred to the application and are available for the following measurement and data storage.

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Technology for Spectroscopy