

## Press Release

### Color Determination of Ophthalmic Lenses

The visual inspection of the colors of corrected eyeglasses belongs to the past: The Lens Color Analyzers TFM-1 from tec5 allows the fast and precise measurement of the color values like  $L^*a^*b^*$  and the UV transmission of ophthalmic lenses with a refractive power of up to  $\pm 20$  diopters. The innovative design of the TFM-1 allows accurate data acquisition of planar, bifocal, trifocal, and multi-focal lenses, as well. Previously, only planar or low refractive power optics could have their colorimetric data measured precisely.

Significant reductions in time and cost can be made by using the novel TFM-1 spectrometer system. Typical applications include dye bath development, production control of e.g. ophthalmic sun glasses, and the optimization of customer specified tinting.

The tec5 spectrometer system measures the transmission between 280 and 780nm. The  $T_{UV}$  380nm and the  $T_v$  values are determined in accordance with DIN EN ISO 8980-3. It can also find the  $T_{UV}$  400nm value following the DIN EN ISO procedure. The data is transferred to the host computer via a versatile USB interface. The specially designed application software computes the colorimetric data, compares these values to stored reference data, on demand, and shows the results. The graphic display of the deviation of the color values  $a^*$  and  $b^*$  from the given references, as well as the display of the tolerance range provides an easy and convenient tool for the judgment of the production status. For saving the acquired data, both a local as well as a centralized SQL databases can be used.

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Picture: Front view of TFM-1