

“Custom Tailored” Optical Sensors for the UV-NIR Area

The new **MultiSpec NIR Photometer** from tec5 allows spectral measurements of up to 3 measurement channels and one reference channel in the spectral range up to 2500 nm. The wavelength can be selected to match the application.

The internal splitting of the light for the group of detectors is done using optical fibers, so all channels can be measured simultaneously, with no movable parts. By the use of an „integrating“ preamplifier very precise evaluations over a wide dynamic range are possible. The photometer has an SMA connector as a fiber optical input which allows the easy attachment of fiber based probes.

The new **MultiSpec UV-NIR SpectroPhotometer** from tec5 – a combination of diverse NIR single element detectors with a UV-VIS spectrometer module - provides a cost effective alternative to expensive UV – NIR spectrometer systems.

A common application in organic solvent quality control is the measurement of the three parameters, color, water and identity. The cost of an NIR spectrometer system and the complexity of the calculations restrict the use of this test.

The **MultiSpec UV-NIR photometer** offers a “custom tailored” alternative. Water shows characteristic absorption bands in the NIR and, therefore, the analysis of the complete spectrum is not necessary. In most cases the verification of the identity of a solvent is possible by measuring a few, well chosen, NIR wavelengths. In the UV range from 200-450 nm UV-active impurities are detectable at the ppm level. This output can be used to control distillations.

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