



# eFLAT-S

## Flexible Light Analyzer and Test System

The eFLAT-S is a worldwide one-of-a-kind, ultra-compact multi-channel spectrometer. The spectral measurement system based on the latest technology is optimized for a wide range of applications.

Particularly, when used in automated manufacturing processes, the PREMOSYS eFLAT-S shows its strengths. The available SDK or the 64-bit LabView driver allow for a convenient integration into already existing production and manufacturing systems via Ethernet interface.

With up to two channels in parallel operation, the eFLAT-S guarantees very high availability and process reliability. In addition, special fiber optic cables with integrated anti-twist protection features help to ensure very high repeatability throughout the entire product life cycle.

## Technical Data

- Up to 2 spectrometers in parallel operation
- Continuous wavelengths from 360 nm to 830 nm
- Readings in xy and  $u^*v^*$ , Y, CCT
- $\lambda_{dom}$ ,  $\lambda_{peak}$ ,  $\lambda_{centeroid}$ ,  $\lambda_{center}$ , Delta  $\lambda$
- CRI DIN6169-2, CRI CIE 13.3-95
- Repeatability  $\pm 1\text{nm}$
- Measurement time incl. transmission of measurement data adjustable from 10.8  $\mu\text{s}$  to 800 sec.
- High spectral resolution
- Integrated dark measurement via mechanical shutter located at the measuring channel itself
- Ethernet- and digital interface
- Optional WIN 32 Low Level DLL (SDK)
- Optional LabView driver
- Dimensions 250mm x 120mm x 80mm
- Weight 1.400g