Technical datasheet

# Spectrocolorimeter for LED light colour measurement · P4L

P4L measures the spectrum and colour of light emitted by LEDs, lamps and luminaires. View spectra and compare chromaticity coordinates in ColorLight on a PC via USB.



Price · €3,490 excl. VAT · P4L with a 1.5 m optical fibre, a Ø6 mm measurement head and ColorLight software included.

## Technical specifications

A sensitive spectral measurement chain for characterizing low-level light sources, with suitable light collection optics.

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| **Spectral analysis** | 360–830 nm |
| **Typical optical resolution (FWHM)*** | 5.2 nm |
| **Uncertainty** | ±0.01 on both x and y |
| **Colorimetry** | CIE 1931 x,y and CIE 1976 u′,v′ coordinates; correlated color temperature and color rendering index. |
| **Connection** | USB interface for control and data acquisition. |

* Typical optical FWHM resolution with a 12.5 µm slit.

LEDs · Automotive lighting · Signalling · Laboratory · Quality control

## P4L accessories

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| **Ø80 mm integrating sphere for P4L** | 80 mm internal diameter and Ø25 mm entrance port. Connects to the P4L via an optical fibre. | €1,390 excl. VAT |
| **SMA905 optical fibre for P4L** | 1.5 m connecting fibre, sold separately. | €190 excl. VAT |

## ColorLight — software included with the P4L

ColorLight is included with the P4L to control measurements and analyse results.

- Display of visible spectra.
- CIE and UCS colorimetric diagrams.
- Color coordinates and source characterization parameters.
- Measurement exports for further analysis.

Integration into ALPES measurement sequences