



photoLab Portable Spectrophotometers

Portable spectrophotometers for measuring a wide variety of samplers in the lab or field.



Description

The photoLab series portable spectrophotometers for the VIS and UV/VIS range offer the unique combination of systematic and spectral analytics with analytical quality assurance (AQA) and the convenience provided by a filter photometer. Thanks to state-of-the-art technology all photoLab models have optimized operation handling. The spectrophotometers offer menu navigation through all applications and a large backlit graphic display for concise operation with the structured menu and graphical evaluation. The instruments also offer selection tables for convenient method selection and searchable fields for data, parameters and methods.

The portable spectrophotometer's regular operation place is the laboratory, although it can be quite practical at some times, when an instrument can also be operated on-site at a measuring station. The light-weight and easy to handle photoLab models enable this mobile operation. The most important factors to ensure that your spectrophotometers measure correctly is careful transportation, a protected measuring venue, and a good measuring preparation procedure especially with regard to the heating period and zeroing after transportation! Besides the transportation case, the meter accessories include a 12 V adapter cable for a common car storage battery.

- Wavelengths from 190 - 1100 nm
- Innovative optics
- Intuitive operating
- Extensive analytical quality assurance (AQA)

Specifications

Instrument Type: Single beam with AutoCheck

Lamp:

photoLab 6100: Tungsten

photoLab 6600: Xenon Flashlamp

Wavelength Range:

photoLab 6100: 350-1100 nm

photoLab 6600: 190-1100 nm

Wavelength Accuracy: ± 1 nm

Wavelength Resolution: 1 nm

Wavelength Bandwidth: 4 nm

Scan Speed:

photoLab 6100: Approx. 334 nm/min resp. 5.6 nm/sec

photoLab 6600: Approx. 455 nm/min resp. 7.6 nm/sec

Test Recognition: Automatic test recognition via barcode for all cuvette types with automatic measurement start

Absorbance Range: -3.3 to 3.3 Abs

Photometric Resolution: 0.5% of measurement value or 0.005 Abs at Extinction 2

Photometric Reproducibility: ± 0.002 E @ 1 E (or better)

Photometric Accuracy: 0.003 E for E < 0.600 E, 0.5% or value or 0.600 E - 2.000 E

Photometric Linearity: <1% up to 2.000 A at 340 - 900 nm

Stray Light: <0.1% at 340 and 408 nm

Cuvette Recognition: Automatically for all cuvette types: round 16mm 10, 20, 50 mm w/o adapter

Measurement Modes: Concentration, absorbance, transmission, kinetics and spectra with absorbance, % transmission, multi-wavelength measurement

Storage: 1000 measurement values; spectra and kinetics approx. 4 Mb => 100 spectra (300-900 nm) and 400 kinetics with 150 values

Methods and Profiles: More than 200 methods, 100 user defined methods, 20 profiles each for kinetics and absorption spectra

Interface: 1 USB-A for USB stick, printer, barcode reader, 1 USB-B for PC, 1 RS-232 for serial connection of printer/PC

Power Supply: Universal plug

Protection Class: IP 30 and protecting rinse for optical slot

Approvals: CE and UL

Dimensions (WxHxD): 15.9x7.8x12.4 inches (404x197x314 mm)

Weight: 9.9 lbs (4.5 kg without plug-in power supply)

Options and Accessories

photoLab 6100 (VIS) – Portable Spectrophotometer
Includes meter, case & 12V car adapter cable.

photoLab 6600 (UV/VIS) – Portable Spectrophotometer
Includes meter, case & 12V car adapter cable.

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