

Photometer 4040⁺

- · Manual 4-channel photometric system for standard cuvettes
- · Independent and simultaneous measurement of four tests in the 4-channel mode:
- three at 340 nm and one in the visible range
- · Temperature controlled measuring cells
- · Reagent-open system with high capacity for programmable methods
- · Suitable for barcode reader
- · Teach-in capability for reagent applications via touchscreen
- · Minimum measuring volume 500 μl, reducible to 250 μl
- · Future-proof operating system can easily be upgraded







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Photometer 4040⁺

Type

4-channel filter photometer

Three channels for UV and one for the visible range

Light Source

LED with long lifetime

Wavelength

340 nm - 730 nm

Wavelength Selection

- Positions #1-3: fixed at 340 nm
- Position <<F>> automatically via
 9-position filter wheel: 5 standard interference filters: 405 nm, 492 nm,
 546 nm, 578 nm, and 623 nm;
- 4 positions for optional filters of choice

Photometric Range

0 - 2.5 A

Cuvette System

Normal standard cuvettes (macro or semimicro, disposable or special optical glass)

Temperature Control

Measuring cells are temperature controlled by electrical thermostat at 37 °C

Operator Interface

Touchscreen for direct functions and alphanumerical inputs

Data Presentation

Graphic display: white characters or symbols, blue background, lighted, resolution 240 x 128 dots

Integrated Printer

Thermal printer, 24 characters per line

Languages

English and German/ Indonesian/ Russian/ Spanish/ French

Memory

- General operating software can be updated by PC
- Reagent-open system with capacity for up to 231 programmable methods
- · Data import by touchscreen or PC
- Up to 50 nonlinear calibration curves with max 20 sets of points can be stored

Signal Port

- Serial port for connection to an external printer and/or PC
- RS232 connector for barcode reader for an easy management of sample identities

Data Logging

Up to 1000 results can be saved in the memory automatically

Measurement Procedures

- Absorbance
- End point with factor, standard or multiple standards, with or without reagent blank and/ or sample blank
- · Bichromatic end point
- Kinetics with factor, standard or multiple standards, with or without blank
- Fixed time with factor, standard or multiple standards, with or without reagent blank
- Turbidimetry with optional timer function
- Single, double and triple determinations
- Curve fitting for nonlinear standard curves
- Free hemoglobin in combination with optional interference filters

Measuring Time

- Kinetic: variable from 3 19 deltas, time per delta 3 - 255 s
- Fixed time: variable from 0 1800 s

Quality Control

Up to 50 methods can be controlled with two control serums, Levey Jennings plot

4-Channel Mode:

- Three positions at 340 nm for Kinetics with factor
- One position for end point with factor in the visible range

Measuring Time

Kinetic: variable from 3 - 14 deltas, time per delta 14 s

Delay Time

Programmable in multiples of 14 s

Mains Supply

Range: 100 VAC up to 240 VAC at 50/60 Hz

Dimensions

Length 33 cm x width 34 cm x height 18 cm

Weight

5.8 kg

Marking



