



RIEHL

Photometer 5010_{V5+}

- Semi-automated photometric system
- Effective temperature regulation system
- Flexible cuvette concept, interchangeable flow-through or standard cuvette
- Teach-in capability for reagent applications via touchscreen
- Minimal sipping volume 250 μ l
- Double-secured liquid control with infrared bubble detector
- Future-proof operating system can easily be upgraded



**RIELE**

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Photometer 5010_{V5+}

Type

Semi-automatic, single-beam filter photometer

Light Source

Halogen lamp - 12 V, 20 W with lifetime protection

Wavelength

340 nm - 800 nm

Wavelength Selection

Automatic via 9-position filter wheel : 6 standard interference filters: 340 nm, 405 nm, 492 nm, 546 nm, 578 nm, and 623 nm; 3 positions for optional filters of choice

Photometric Range

0 - 2.5 A

Cuvette System

Micro flow cell: 32 µl, 10 mm light path interchangeable with normal standard cuvettes (macro or semi-micro, disposable or special optical glass)

Temperature Control

- Internal Peltier element, temperature variable, pre-adjusted to 25 °C, 30 °C and 37 °C
- Equilibration time for aspirated reaction mixture to reach 37 °C from ambient temperature: 15 s

Aspiration System

Built-in peristaltic pump driven by stepper motor, programmable aspiration volume controlled by infrared light barrier

Sipping Volume

- Minimum 250 µl, typically 500 µl up to 2000
- Separate setting of aspirate volume and wash volume

Operator Interface

Touchscreen for direct functions and alphanumeric 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 French/ German/ Indonesian/ Russian/ Spanish

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

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

Quality Control

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

Measuring Time

- Kinetic: variable from 5 – 19 deltas, time per delta 3 - 255 s
- Fixed time: variable from 0 - 1800 s

Delay Time

Programmable from 0 - 1800 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

5.3 kg

Marking

