ProLiNE

RIELE Photometer 5010 V5+

Flexible & Precise

Manual clinical chemistry photometer made in Indonesia
with high quality standards under license from Robert Riele GmbH & Co KG, Germany.

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KEMENKES RI AKD 10102320416

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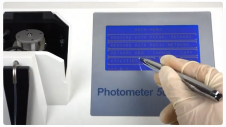
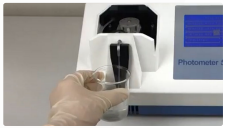
Standard Cuvettes Compatible



Touch Screen Enabled



Automated Peristaltic Pump

German technology made in Indonesia.

Designed by Robert Riele GmbH & Co KG, Germany and manufactured in Cikarang, Indonesia by PROLINE (the in vitro diagnostic medical device industry part of the Prodia Group Companies which always accentuate quality in every product produced), RIELE Photometer 5010 V5+ offers flexibility in measurement methods and convenience operation for its users. This photometer is suitable to be used as the main instrument in small to medium-sized laboratories or as a back-up instrument in medium to large laboratories.

Optimal flexibility to complement basic laboratory needs

With a long life LED lamp system, a wavelength range of 340 - 800 nm, 6 built-in interference filters, 3 additional filter slots, and a heating element at 25 °C, 30 °C and 37 °C, the RIELE Photometer 5010 V5+ offers measurement flexibility and is more than adequate for analysts of small/medium scale clinical laboratories providing basic clinical chemistry examinations. The fluid processing system with a peristaltic pump optimizes precise aspiration results at measuring volumes of 250 µL to 2000 µL in high-quality 32 µL-flow cells equipped with a storage capacity of up to 200 method variants and 1000 measurement results stored internally.

Manufactured by: PT Prodia Diagnostic Line
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Under license from: Robert Riele GmbH & Co KG
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Parameter list of RIELE Photometer 5010 V5+ test reagents

Follow the QR code on the side to see a list of PROLINE® reagent parameters that can be checked using this photometer, or follow the following link: **https://proline.page.link/riele-5010**

Technical Specification

RIELE Photometer 5010 V5+

Model	Bench top manual clinical chemistry photometer with single-beam filter.
Light source	Halogen LED 12 V, 20 W.
Wavelength	340 nm – 800 nm.
Sample types	Whole blood, serum, plasma, and urine samples.
Wavelength selection system	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 filter 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).
Aspiration system	• Built-in peristaltic pump driven by stepper motor. • Programmable aspiration volume controlled by infrared light barrier. • Aspiration volume: min. 250 µL, typically 500 µL – 2000 µL. • Separate setting of aspirate volume and wash volume.
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 sec.
User interface	• Touchscreen for direct functions and alphanumerical input. • Graphic display: white characters or symbols, blue backlight. • Screen resolution 240 × 128 dots.
Measuring time	• Kinetic: variable from 3 – 19 deltas, time per delta 4 – 255 sec in 1 sec steps. • Fixed time: variable from 0 – 1800 sec in 1 sec steps.
Integrated printing system	Thermal printer, dot matrix, 24 characters per line.
Software system	• Reagent open system with capacity for up to 231 programmable methods. • Up to 50 non-linear calibration curves with max 20 sets of points can be stored. • Up to 2970 results of max 99 samples can be managed in the memory. • Languages: Indonesian, English, French, German, Russian, Spanish. • General operating software can be updated by PC. • Data import by touchscreen or PC. • Can be connected to an external PC/printer using the RS 232 connector.
Measuring capability	• Absorbance. • End Point with factor, standard or multiple standards, with or without reagent blank and/or sample blank. • Bichromatic end point. • Kinetics with standard, factor or multiple standards, with or without blank. • Fixed time with standard, factor 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.
Power consumption	AC 90 – 264 V, 60/50 Hz.
Dimension	33 cm (L) x 34 cm (W) x 18 cm (H).
Weight	± 6 kg.