

# DiaSys Photometer 505

## semi-automatic, benchtop filter photometer for clinical chemistry

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### Why Choose?

Choose the DiaSys Photometer 505 for laboratory-grade accuracy with simplicity—offering German precision, low reagent consumption, and flexible method programming in a compact benchtop format perfect for growing labs.

- "German precision in a compact benchtop—32  $\mu$ L flowcell for low reagent costs."
  - "Program 200 methods with pre-programmed DiaSys reagent apps included."
  - "Advanced LED technology—50% energy savings with long-life operation."
  - "Automatic 9-position filter wheel for rapid wavelength switching."
  - "Touchscreen interface with built-in printer and PC remote control."
  - "Flexible calculations: kinetic, fixed-time, and non-linear methods supported."
  - "Ideal backup system for mid-sized labs or primary analyzer for small labs."
  - "CE and ISO 13485 certified—trusted German engineering for clinical labs."
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### Unique Selling Points

- **Superior German Flow Cell Design:** High-quality 32  $\mu$ L micro flow cell with 10 mm light path ensures precise photometric measurements with minimal reagent waste.
- **Advanced LED Light Source:** Long-life LED technology delivers consistent illumination with 50% energy savings versus traditional halogen lamps and extended operational lifespan.
- **Automatic Wavelength Selection:** 9-position filter wheel with 6 standard pre-installed filters (340, 405, 492, 546, 578, 623 nm  $\pm$ 4nm) plus 3 optional filter positions for custom wavelengths.
- **Flexible Method Programming:** Program up to 200 custom clinical chemistry methods with pre-programmed DiaSys reagent applications, eliminating setup time.
- **Precise Temperature Control:** Advanced Peltier thermostat maintains consistent 37°C operation for accurate, reproducible results.
- **Sophisticated Calculation Capabilities:** Supports multiple standard methods, non-linear calibrations, kinetic and fixed-time measurements with Levey-Jennings quality control plotting.
- **Low-Volume Peristaltic Pump System:** Stepper motor-driven pump with programmable aspiration (250-2000  $\mu$ L) minimizes sample and reagent consumption.
- **Touchscreen Interface with Built-In Printer:** Intuitive color touchscreen, thermal printer (24 characters/line), and up to 1000 results memory storage.
- **PC Remote Control Capability:** Can be controlled and monitored remotely via personal computer for enhanced workflow flexibility.

- **Compact Benchtop Design:** Space-efficient dimensions (29 x 20 x 12 cm) fit limited lab spaces while maintaining full functionality.
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## Clinical Benefits for Hospital Laboratories

- **Precise Optical System:** Three precision lenses combined with two diaphragms enable highly accurate photometric analysis with excellent linearity.
  - **Low Reagent Consumption:** 32  $\mu$ L micro-cuvette dramatically reduces reagent costs while maintaining measurement accuracy.
  - **Backup Capability:** Ideal as a secondary analyzer or backup system for mid-sized laboratories, ensuring workflow continuity.
  - **Comprehensive Test Coverage:** Broad wavelength range and flexible programming enable diverse clinical chemistry assays (liver, renal, cardiac, metabolic panels).
  - **Quality Assurance Built-In:** Integrated QC controls with Levey-Jennings statistical tracking ensure result reliability.
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## Emergency Testing Performance

- **Rapid Method Switching:** Automatic filter wheel enables quick wavelength adjustment for diverse urgent tests without manual intervention.
  - **Multiple Calculation Options:** Supports standard, non-linear, and kinetic measurement modes for flexible acute testing protocols.
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## Why Hospitals Choose

- **Made-in-Germany Quality:** Engineered and manufactured by DiaSys Diagnostic Systems GmbH with over 20 years of collaborative development.
  - **CE and ISO 13485 Certified:** Meets stringent European and international quality standards for clinical laboratory instruments.
  - **Cost-Effective Solution:** Combines affordability with advanced features, making it accessible for resource-conscious laboratories.
  - **Proven Reliability:** Trusted by laboratories worldwide for consistent, accurate results with minimal maintenance requirements.
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## Transform Your Laboratory Today

Elevate your laboratory's diagnostic capability with the DiaSys Photometer 505—delivering precision, efficiency, and flexibility for clinical chemistry testing that small and mid-sized laboratories demand.

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