diatron

P780

Clinical Chemistry

Performance Without Compromise

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Introducing the cost-effective P780, our flagship clinical chemistry system, as part of the Pictus family.
The P780 is designed to provide outstanding performance and maximum efficiency without compromising affordability.

Maximum Efficiency in Performance

Achieving flawless accuracy without compromising laboratory workflow.

All Pictus family members ensure seamless compatibility with the same reagents, consumables, methods, controls, and calibrators.

Auto Filling Draining Module for extended walkaway

Built-in Panel PC with touch screen for minimizing footprint

Nonstop operation for improving turnaround time

Ideal Platform

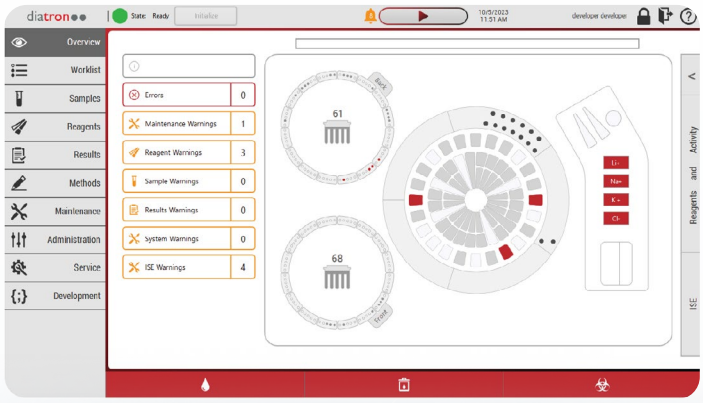
The P780 provides exceptional performance by seamlessly integrating proven technologies with cutting-edge enhancements for your lab. The system maximizes productivity and throughput, it ensures results without compromising the highest standards of accuracy.

Dual concentric reagent tray with cooled positions for calibrators and controls

ISE unit with independent arm to maximize throughput

All-New Software

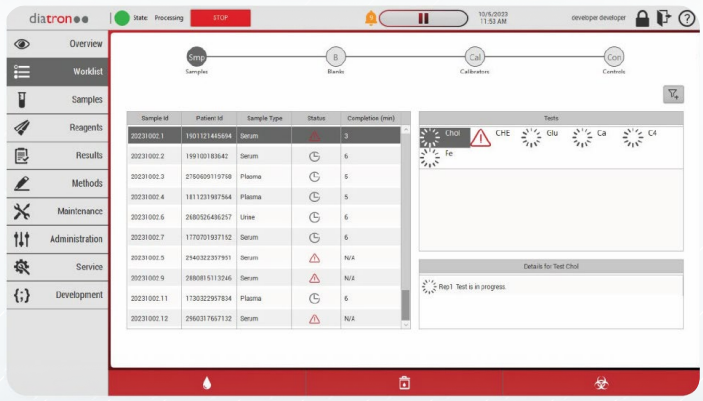
The P780's All-New Software integrates advanced features to ensure state-of-the-art performance while maintaining uncompromised usability and reliability across all processes.



01 Enhanced flexibility

02 Comprehensive dashboard

03 Intuitive and easy to use

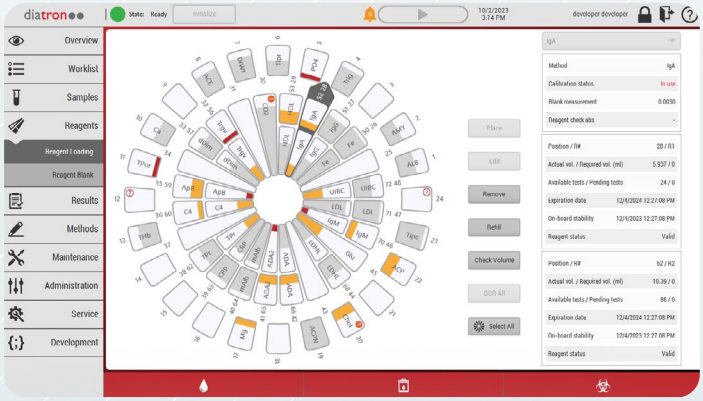


04 Real time worklist

05 Sample time to completion

06 3 processing modes

07 Method priority



08 QC results gating

09 Delta check

10 Cuvette triple check

11 BC load calibrator & control values

Low Operating Cost

The P780 is designed to deliver excellent performance while keeping operating costs low. With long-life cuvettes and minimal water consumption, it ensures maximum efficiency and reliability, without compromising on affordability or overall performance.

Enhanced throughput

Long life cuvettes

Flexible software

Minimum water consumption

Small footprint

Specifications

01 Analysis modes:

- Fully and optimized Random access
- Sample or batch mode
- Real STAT
- Continuous reagents and samples loading
- Automatic sample pre and post dilution (1:2 to 1:120)
- Automatic sample re-run
- Method priority
- Wake up and stand-by mode

02 All-New Software features:

- Comprehensive Dashboard
- Delta check
- Reflex testing
- Test profiles definition
- 2D barcodes for autoloading calibrator and control values
- Real time worklist with time to complete function
- Automatic backup prodedure.
- Result printout user customized

03 Method types:

- 1point end point
- 2point end point
- Fixed time
- Kinetics (conservative and adaptive modes)
- Calculated
- Open channels: 5 research and 95 quality assured POC (Programmable Open Channels)

04 Quality control system:

- Levy-Jennings
- Twin QC
- Westgard multi-rules
- Rili-Bak

05 Calibration:

- Automatic calibration. Automatic curve fit. Factor or standard. Single and multipoint (unlimited).
- Calibration formulas: linear, multilinear, polynomial, sigmoidea, Logit4, Logit5, spline

06 Throughput:

- Up to 600 photometric + up to 230 ISE tests/h

07 Samples:

- Initial rack quantity: 5 x 19 samples with continues loading up to 99 racks providing a capacity of 1800 samples per day
- Primary tube (length up to 100 mm),
- Pediatric vials
- 2 types of adaptors to accommodate variety of sample tubes and cups (ext. diameter 11.5-16mm)
- Sample type: Human body fluids

08 Reagents and reagent tray:

- Dual concentric reagent tray
- Reagent cooling compartment: 72 cooled positions 8+/- 2°C
- Cooled positions for selected calibrators and controls

09 Reaction tray:

- Two pipetting arms for both sample and reagent, reaction pre-heater, probe collision sensor, reaction mixer and clot detector
- Stirring: After dispensing each reagents
- Probe cleaning: Internal and external washing.

10 Reagent bottle size:

- 25, 45 and 70mL

11 BCR

- On-board samples and reagents barcode recognition

12 Reaction volume:

- 180µl - 650µl

13 Reaction Tray:

- Reaction cuvettes: 160 re-usable plastic 6 mm light path
- Reaction time: 0 to 25 min.
- Reaction temperature: 37°C ± 0.1°C
- 6 steps cuvette washing station

14 Optics

- Light source: UV quartz halogen lamp
- Photometric Range: -0.1 to 3.6 A.
- Up to 13 measuring wavelenght
- 12 Standard wavelength: 340, 380, 405, 450, 490, 505, 550, 590, 620, 650, 700, 750 nm.
- Photometry: Single or Double-wavelength simultaneous reading.

15 Optional ISE Unit

- Medica ISE module: Na+, K+, Cl- and optional Li+
- Independent pipetting for ISE module

16 Interface LIS:

- Bi-directional RC 232 C, ASTM
- HL7

17 Water consumption: <6L/hour

18 Touchscreen Panel PC

- Windows based
- Cybersecurity functionality

19 Optional Filling/ Draining Module

20 Optional handheld BCR

21 Ambient temperature monitor

22 Operating environment:

- Temperature +18°C to +30°C
- Humidity: 40% to 80%
- Atmospheric pressure: 600 to 1050hPa.

23 Transport and storage:

- Temperature +5°C to +35°C
- Humidity: 10% to 80%
- Atmospheric pressure: 600 to 1050hPa.

24 Power requirements:

- 110/220V, 50/60Hz, 1.8kVA (1800VA)

25 Dimensions:

- 114 (W) x 78 (D) x 129 (H) cm (closed top cover, without Panel PC)
- 162 (W) x 78 (D) x 178 (H) cm (open top cover, with Panel PC)

26 Transport box dimensions:

- 128,9 (W), x 89,6 (D) x 179,6 (H) cm.

27 Weight:

- Analyzer: 250kg.
- Packed Analyzer with transport box and accessories: 270 kg.

For full product specifications, please refer to the User Manual.

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We are a member of the STRATEC Group I www.diatron.com I sales@diatron.com

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CE IVD