

AT-112^{PLUS}

Biochemistry Analyzer



**TRUSTED PERFORMANCE
FOR OVER 15 YEARS!**

Specifications	
Methodology	End point, kinetic, fixed time & absorbance
Calibration	Single standard/multi-point linear/multi-point non-linear
Programmable channels	112
Memory	3200 results
Quality control	Comprehensive QC software with L-J graph
Light source	Quartz-Halogen lamp 12V / 20W
Photometric range	0.0000 to 3.0000 Abs Resolution : 0.0001 Abs ; Drift : 0.002 Abs/hour
Wavelength range	7 standard filters: 340, 405, 492, 510, 546, 578, 630 nm & 1 free optional position ; Half Bandwidth < 8 nm ; Stray light : < 1.0 % at 340 nm
Flowcell	Stainless steel body with quartz window; Optical path 10 mm
Measuring volume	32 µl
Programmable aspiration volume	500-2000 µl
Temperature control	Peltier elements : 25°C, 30°C & 37°C ±0.1°C
Input	Ergonomic LCD touch screen display
Printer	Built-in high speed thermal printer
Interface	RS-232 serial port
Dimension / Weight	450 x 360 x 140 mm / 11.5 kgs
Operating environment	Temperature: 15-30°C ; Humidity: 20-80 %
Power requirement	AC 110-220 V ±10%, 50/60 Hz

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 **ACCUREX**

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— Since 1984 —

Zero Drift Check
Max: 0.1181
-
ABS: 0.1173
-
Min: 0.1168
-
0657

The testing in zero pont is passed.
Exit

① ZERO DRIFT

- Comprehensive status check of 340 nm UV filter.
- Easy-to-perform 10 minute procedure .
- The system prompts the user when the zero-drift passes ensuring that the 340 nm filter is in good condition and the results for kinetic tests are accurate.

Filter Check

340 nm 0.1173
406 nm 0.1011
492 nm 0.0971
510 nm 0.0979
546 nm 0.0887
578 nm 0.0792
630 nm 0.1033
F8 5.2369

Exit

✓ FILTER CHECK

- Self-check operation for optical filters.
- Checks the absorbance of each of the 7 filters & free position.
- Ensures that all the filters are in good working condition.



WORKLIST

- A unique facility by which a worklist can be prepared for every sample ID.
- Printouts can be taken by sample ID or test parameters.
- Print by ID : Ensures that no test is left out for a particular ID.
- Print by Test : Ensures that all reagents / working solutions are prepared in correct volumes preventing wastage.
- The system flags any test which is missed out for a particular ID, ensuring all assay panel is completed.



LAMP SAVING

- Lamp saving option available ensuring long lamp life.
- The lamp can be turned off in case of sporadic sample workload.



ALARMS

- Audio alarm is sounded when results are higher (S) or lower (L) than reference range ensuring that all abnormal samples are flagged for further review.



ACCUREX

- Improved ergonomic touch screen display, ensures strain free viewing
- End point, kinetic, fixed time & absorbance mode
- Single & bichromatic measurement
- Memory : 3200 results
- 112 programmable channels
- Calibration modes – 1 standard / multi-point linear / multi-point non-linear
- Easy-access maintenance chamber ensures efficient uptime management
- Real-time reaction curve display
- Anti-vibration & anti-disturbance optical system ensures highly accurate results
- Option of 7 filters (340 - 630 nm) & 1 free position
- Comprehensive quality control program with L-J graph
- Lamp saving feature to prolong lamp life
- Audible / visual alarm available
- Easy-tear printer design

ERGONOMIC DISPLAY DESIGN

- The position of the LCD display has been designed to reduce cervical (neck muscle) strain during continual use.
- The aerial view display design makes it possible to view the screen from multiple perspectives, (standing or sitting, with equal clarity).

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