

TECHNICAL DATASHEET



1 General Product Specifications

Model: Monlab Photometer

Manufacturer: A Diagnostic Company SL

Dimensions (LxWxH): 235mm x 230mm x 165mm

Weight: 2,7 kg

Built-in 7" Display (1024x600)

Built-in thermal Printer:

- Low noise
- 58mm paper width
- 90mm/s printer speed

Built-in Incubator (optional): 8 positions

- LED tube light
- Tube sensor detectors

Built-in Battery (optional):

- More than 3h of autonomy

Power Supply: 100V-240V, 50/60Hz, multiple plugs

2 Optical Specifications

Light Source: LED

Nominal Range: -0.2-3.5Abs

8 Wavelengths: 340, 405, 450, 500, 545, 575, 630, 705nm

Bandwidth: 10±1nm

Digital Resolution: 0.001 for 2Abs

3 Core Software Capabilities

READING MODES

- UV/Colorimetric (rate/endpoint)
- Turbidimetric Immunoassay
- Absorbance, Endpoint, Kinetics, Differential time, Fixed time, Mono and Bichromatism
- With or without reagent blank in all modes
- Time to given absorbance increasing or decreasing.

USER INTERFACE

- Innovative UX easy navigation
- App remote access from an external computer browser
- Multi-lingual

DATABASE

- >100K Results - Patients, blanks and calibrations
- External USB mass storage backup
- Export results to Excel
- Cloud storage system

CONNECTIVITY

- Bidirectional LIS connection
- Ethernet RJ45, Wi-fi, Bluetooth

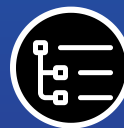
4 Thermal Management and Fluid Control



Resistor Cuvette control temperature $\pm 0.2^{\circ}\text{C}$
Control Range: 35-45°C
Temperature stability $\pm 0.2^{\circ}\text{C}$ in 30min



Peristaltic Pump with stepper motor
Nominal flow 10mL/min
Programmable aspiration volume up to 100µL
1L of waste bottle



ACCESSORIES

- Aspiration tubing
- Peristaltic pump tube
- Flow cells
- Cleaning cloth
- Waste bottle

5 Compliance and Certifications



ISO 13485 Quality Management System (in progress)



CE Marking for European compliance



RoHS (Restriction of Hazardous Substances)

6 Maintainability, Warranty and Liability

- Maintenance: Minimal operations are required. ADC remotely controls software upgrades and preventive actions.
- Warranty Period: 1 year from the date of purchase. (excluding accessories)
- Liability: ADC is not liable for damages resulting from improper installation, operation, or maintenance.

7 Peripherals and features On Demand



External USB printer (Epson TM-T20III)



External USB Barcode Reader



RFID

- Automated Sample ID
- Secure Access Control
- Efficient Data Tracking

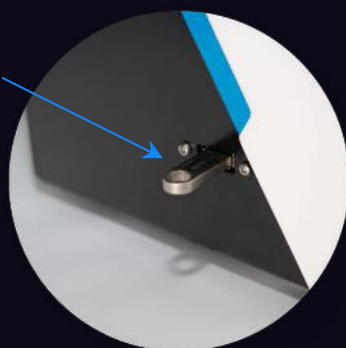


Cloud Management

- Fleet Control (Device Activation, reagent consumption reporting and preventive maintenance)
- Robust data privacy

8 Schematics

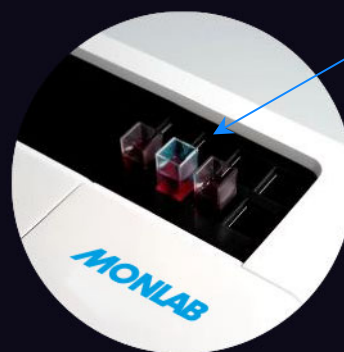
Backup using external USB mass storage or perform on-site upgrades



7" Touch Screen Display



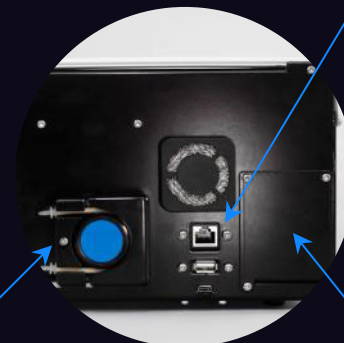
Incubator with LED-illuminated tubes equipped with presence sensors.



Flow Cell or Cuvette mode



Ethernet, USB, and USB-c power in port



Durable front inlet tube.

Thermal Printer

Peristaltic Pump

Built-in Battery (optional)