

Biohit HealthCare

Automated Immunoassay Analyzer



Provides a compact, cost-efficient and completely open system to automate the Biohit HealthCare GastroPanel or any other EIA assays.

Featuring

- Fully open system
- Cost efficient with no hidden costs
- Up to 8 assays simultaneously
- Intelligent racks providing 192 sample positions
- Integrated bar code reader
- 16 custom reagent positions
- Smallest footprint of any comparable instrument
- Consistent, accurate and reliable results



Unique Features

Intelligent Racks	Automatic sample location management.
System Architecture	Open, fully customizable.
High Precision Micro-Syringe	Aspirate 1µl with less than 3% CV.
On-board Reader(s)	Spectrophotometer, or Spectrophotometer+Fluorescence Combo Reader.
Forced Convection Incubator	Evenly heats using forced air to eliminate "Edge Effect".
On-board Camera	Probe-mounted camera allows remote troubleshooting.
Sliding Sample Tray	Easy loading and unloading of samples.
Built-in Barcode Reader	Streamline loading and decrease sample tracking errors.
Orbital MTP Shaker	Better adherence to assay protocols, no splash.
Small Footprint	Fits on a 60cm deep standard laboratory bench.

Technical Specifications

Sample Capacity	192 patient sample positions
Reagent Positions	16 custom reagent positions
Test Tube Size(s)	Standard 12, 13, 16 mm diameter, up to 100 mm tall
MTP Positions	2 positions
Pre-dilution MTP Positions	1 position
Well-Tracking	Independent well tracking and timing
Wash bottles	2 external wash bottles
Probe/Needle	Single probe, dual needle
Dispense Volume	Up to 500 µl
Aspiration Volume	1 µl
Incubation Temperature	Up to 40 °C
Photometer Wavelengths	405, 450, 490, 550 and 630 nm wavelengths standard
Chemiluminescence Photomultiplier Tube (PMT)	Detection type: glow, Spectral range: 300-500 nm, Dark count: 50 counts per second (standard), Measuring time: 200 ms (adjustable 1 to 1000 ms), Dynamic range: 6 decades (optional add-on).
Orbital MTP Shaker	Amplitude: 1mm, Speed: Up to 900 RPM, Capacity: 3 MTP (2 reaction, 1 pre-dilution)

Power Supply	120-265V, 50-60Hz
Dimensions	W: 64 cm, D: 57 cm, H: 45 cm (W: 25.2 in, D: 22.5 in, H: 17.7 in)
CE Listed	Yes

Software Specifications

Protocol Designer	Fully open and highly configurable Test Designer
Calculations	Point to point, linear regression, cubic spline, 4PL, 5 PL, Lin-Lin, Lin-Log, Log-Log representation
LIS Integration	Bi-directional, RS232, USB, TCP/IP
User Interface	MS Windows Graphical User Interface (Windows 7)

