# AUTOMATED IMMUNDASSAY PLATFORM





# GOLD STANDARD



#### GSD THUNDERBOLT® AUTOMATION PLATFORM

# **Benefits of ThunderBolt® Automation**

#### Powerful

Fully-Automated – Load and walk away.

High Capacity – 192 sample capacity.

#### Flexible

**Open Architecture** – Program any EIA or CLIA protocol (CLIA requires CLIA+EIA configuration). **Adaptable** – Up to 8 different protocols in a single batch.

## Compact

Space Saving – Reclaim valuable space and process more in a 2' x 2' footprint.

#### Innovative

High Precision Micro-Syringe - Aspirate 1 µl with less than 3% CV.
Convection Incubator – Eliminate "Edge Effect" by evenly heating each well.
Orbital Shaker – No-spill design, up to 900 RPM.
Built-in Reader – Ultra-compact and fully-automated reader.
Intelligent Racks – Reduce errors with Positive Patient Identification.

**On–Board Camera** – Remote diagnostics for maximum uptime.



# TECHNICAL SPECIFICATIONS

### **Unique Options**

Intelligent Racks System Architecture High Precision Micro-Syringe On-board Reader(s) Forced Convection Incubator On-board Camera Sliding Sample Tray Built-in Barcode Reader Orbital MTP Shaker Small Footprint

### **Technical Specs**

Sample Capacity Reagent Positions Test Tube Size(s) MTP Positions Pre-dilution MTP Positions Well-Tracking Wash bottles Probe/Needle Dispense Volume Aspiration Volume Incubation Temparture Photometer Wavelengths

Orbital MTP Shaker Power Supply Dimensions CE Listed

#### **Software Specs**

Language Calculations

Architecture Report Designer LIS Integration User Interface Automatic sample location management. Open, fully customizable. Aspirate 1µl with less than 3% CV. Spectrophotometer, or Spectrophotometer+Fluorescence Combo Reader. Evenly heats using forced air to eliminate "Edge Effect". Probe-mounted camera allows remote troubleshooting. Easy loading and unloading of samples. Streamline loading and decrease sample tracking errors. Better adherence to assay protocols, no splash. Fits on a 60cm deep standard laboratory bench.

192 patient sample positions 16 custom reagent positions Standard 12, 13, 16 mm diameter, up to 100 mm tall (custom racks available) 2 positions 1 position Independent well tracking and timing 2 external wash bottles Single probe, dual needle Up to 500 µl 1 µl Up to 40 °C 405, 450, 550, 570 and 620 nm wavelengths standard (Custom wavelengths available) Amplitude: 1mm, Speed: Up to 900 RPM, Capacity: 2 MTP, Time: 0 to 2 hrs. 120-265V. 50-60Hz W: 64 cm, D: 57 cm, H: 45 cm (W: 25.2 in, D: 22.5 in, H: 17.7 in) Yes

Multi-language support Point to point, linear regression, cubic spline, 4PL, 5 PL, Lin-Lin, Lin-Log, Log-Log representation Fully customizable Fully open and highly configurable test designer Bi-directional, RS232, USB, TCP/IP MS Windows Graphical User Interface (Windows 7)



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