



By **GSD** **GOLD STANDARD**SM
D I A G N O S T I C S

EIA & CHEMILUMINESCENCE ANALYZER

The ThunderBolt® is an innovative 2-plate, fully automated, open platform that is compact and cost efficient. The user friendly and flexible software is capable of programming a broad range of protocols. The ThunderBolt is available for both ELISA and Chemiluminescent (CLIA) applications.



Fully-Automated - Load and walk away.

High Capacity - 192 sample capacity.

Open Architecture - Program any EIA or CLIA protocol*

Adaptable - Capable of running many different protocols in a single batch.

Space Saving - Reclaim valuable space and with a 2' x 2' footprint.

Unique Features

- Intelligent Racks
- On-Board Camera
- Intuitive, Open, Flexible Software
- Built-in Reader
- High Precision Micro-Syringe
- Convection Incubator

*CLIA protocols require EIA+CLIA reader option



Please visit www.gsdx.us or call (855) 268-6940 for additional information.

EIA+CLIA ANALYZER



UNIQUE FEATURES	<p>Intelligent Racks System Architecture High Precision Micro-Syringe On-board Reader(s)</p> <p>Forced Convection Incubator On-board Camera Sliding Sample Tray Built-in Barcode Reader Orbital MTP Shaker Small Footprint</p>	<p>Automatic sample location management. Open, fully customizable. Aspirate 1 uL with $\leq 3\%$ 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. Precise adherence to assay protocols. Fits on a 60cm deep standard laboratory bench.</p>
TECHNICAL SPECS	<p>Sample Capacity Reagent Positions Test Tube Size(s)</p> <p>MTP Positions Pre-dilution MTP Positions Well-Tracking Wash bottles Probe/Needle Dispense Volume Aspiration Volume Incubation Temperature Spectrophotometer</p> <p>Chemiluminescence Photomultiplier Tube (PMT)*</p> <p>Orbital MTP Shaker</p> <p>Power Supply Dimensions</p> <p>Weight CE Marked</p>	<p>192 patient sample positions 16 custom reagent positions (22-35mm diameter bottles accepted) Accepts 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 bottle positions Single probe, dual needle Up to 300 μl 1 μl Room temperature to 40 °C 405, 450, 490, 550 and 630 nm wavelengths standard (custom available), 0 to 3.0 OD</p> <p>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 configuration)</p> <p>Amplitude: 1 mm, Speed: Up to 900 RPM, 3 MTP (2 reaction, 1 pre-dilution) 100-265V W: 64 cm, D: 57 cm, H: 45 cm, (W: 25.2 in, D: 22.5 in, H: 17.7 in), H (open): 91.5 cm (36 in) 30 kg (65 lbs) Yes</p>
SOFTWARE SPECS	<p>Language Calculations</p> <p>Architecture Protocol Design LIS Integration User Interface</p>	<p>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 configurable test designer; custom reports Bi-directional, RS232, USB, TCP/IP MS Windows Graphical User Interface (Windows 7 or above)</p>



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