



ThunderBolt®

EIA & Chemiluminescence Analyzer

We offer a broad menu of industry leading, innovative, and compact instruments that are the standard platforms for our ELISA-based food testing kits.

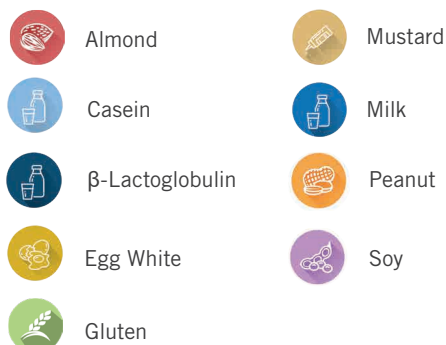
The **ThunderBolt®** is an innovative 2-plate, fully automated, open platform that is compact and cost efficient. The user friendly and flexible software is capable of programming a broad range of protocols. The ThunderBolt® is available for both ELISA and Chemiluminescent (CLIA) applications.

- Fully-Automated - Load and walk away
- High Capacity - 192 samples
- 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, Flexibe Software
- Built-in Reader, Convection Incubator
- High Precision Micro-Syringe

Validated protocols for: SENSISpec Allergen ELISA Kits



BACSpec Pathogen ELISA Kits



Environment & Water ELISA Kits



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UNIQUE FEATURES	Intelligent Racks System Architecture High Precision Micro-Syringe On-board Reader(s)	Automatic sample location management. Open, fully customizable. Aspirate 1uL with $\leq 3\%$ CV.. Spectrophotometer, or Spectrophotometer+Fluorescence Combo Reader.
	Forced Convection Incubator On-board Camera Sliding Sample Tray Built-in Barcode Reader Orbital MTP Shaker Small Footprint	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.
TECHNICAL SPECS	Sample Capacity Reagent Positions Test Tube Size(s)	Up to 192 determinations 16 custom reagent positions (22-35mm diameter bottles accepted) Accepts standard 12, 13, 16 mm diameter, up to 100 mm tall (custom racks available)
	MTP Positions Pre-dilution MTP Positions Well-Tracking Wash bottles Probe/Needle Dispense Volume Aspiration Volume Incubation Temperature Spectrophotometer	2 positions 1 position Independent well tracking and timing 2 external wash bottle positions Single probe, dual needle Up to 300 μ l 1 μ l Room temperature to 40 °C 405, 450, 490, 550 and 630 nm wavelengths standard (custom available), 0 to 3.0 OD
	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 configuration)
	Orbital MTP Shaker	Amplitude: 1 mm, Speed: Up to 900 RPM, 3 MTP (2 reaction, 1 predilution)
	Power Supply Dimensions Weight CE Marked	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
SOFTWARE SPECS	Language Calculations	Multi-language support Point to point, linear regression, cubic spline, 4PL, 5 PL, Lin-Lin, Lin-Log, Log-Log representation
	Architecture Protocol Design LIS Integration User Interface	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)

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