

LUMATE[®] 4400

Chemiluminescent 96 well Microwell plate reader



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Features of the LuMate[®]

- ◆ Economical open system & compact design
- ◆ Reads an 96 microwell plate in 2 minutes
- ◆ Multiple calculation modes
- ◆ Dependable performance
- ◆ Intuitive software, designed for ease of use



LuMate[®] is a powerful yet compact glow luminescence detector with photo multiplier capable of reading (300nm - 650nm) in opaque 96 well microwell plates.

LuMate[®] is an open system and may be used to read most microwell based Chemiluminescent kits.

Once installed, LuMate[®] management software comes preconfigured to interface with your PC and the LuMate[®] analyzer via a high-speed USB connection.

The LuMate[®] with your PC provides the rapid reading of 96 well microwell plates or individual microwell strips, customizable reports, calibration curve fit, and unlimited data storage to meet the requirements of the modern laboratory.

 **AWARENESS[®]**
TECHNOLOGY, INC.

LUMATE®

4400 Microplate Reader Specifications

Optical measurement range	Glow Luminescence
Sensitivity/Detection limit	HRP 1x10 ⁻¹⁸ moles, ALP 1x10 ⁻²¹ moles
Linear Dynamic Range	10 ⁶ RLU
Cross talk	Less than 2.5 x 10 ⁻⁴
Spectral Response Range	300-650 nm
Peak Wavelength	400 nm
Vessel:	96 wells in opaque white, flat bottom wells in strip tray or plate
Power Requirements	100V or 240V AC, 90W, 50-60Hz (auto-sensing)
PC connection	USB Port
Speed	Reads 96 wells in approximately 2 minutes
PC interface with LuMate	Manager software - included. (PC not included)
Operating System	Microsoft Windows® 7, 8.1, 10
Calculation Modes	Factor, Standard, Point to Point, Cut Off, Regression, Cubic Spline, Dose Response, Polynomial Regression, 4-Parameter and 5-Parameter Logistic, %RLU
Additional Features	User-programmable open system, selectable plate formatting, reporting
Certifications	NRTL Listed, CE Mark Awareness Technology Quality System is certified under ISO13485:2016
Enclosure	All metal enclosure
Dimensions	Approx. 7.5x8.0x16.5 (19x20.3x42cm) Weighs 12.5 lbs. (5.7 kg)

ISO 13485:2016



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Optional SimWell Q.A. Set
Part Number 041020

Method for verifying calibration of LumiStat® luminometers

www.awaretech.com

LumiStat[®] 4900

Programmable Open System

CHEMILUMINESCENT Microstrip Reader



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LumiStat[®], part of the Stat Fax[®] line of semi-automated instruments from Awareness Technology, Inc. is a CLIA microstrip reader capable of processing CLIA assays

The sensitive Luminometer with a broad dynamic range is designed to read luminescent reactions taking place in up to 3 x 8 or 3 x 12 CLIA microwell strips. LumiStat[®] is also capable of reading 1 or 2 wells if desired.

CLIA Assays can be programmed using a variety of calculation modes as well as an RLU/absorbance mode. All instrument adjustments and settings are made using the built-in touchscreen interface.

The photomultiplier light detector is sensitive to light in the UV and visible spectrum from 340 nm to 650 nm.

LumiStat[®] is a stand-alone analyzer with the ability to transmit and capture data to a PC via USB connectivity.

Features include an incubation timer, automatic blanking options, the ability to indicate the locations of positive and negative controls, enter control acceptance criteria for automatic comparisons, and to select positive and negative interpretations based on concentration values.

- Economical open system
- Compact design
- Automatically positions each strip for reading
- User programmable test menu
- Multiple calculation modes
- Touch screen display and on-board printer
- Three strip loading capacity
- Dependable maintenance-free design
- Outputs results in 30 seconds per 12 well strip
- Multiple calculation modes
- PC connectivity via USB
- NRTL listed, CE marked, Made in the USA

 **AWARENESS[®]**
TECHNOLOGY, INC.

LumiStat[®]

Semi-automated CLIA Programmable Analyzer

Sensitivity/Detection Limit	HRP 1×10^{-18} moles, alkaline phosphatase (ALP) 1×10^{-21} moles
Linear Dynamic Range	10^6 RLU
Cross Talk	Less than 2.5×10^{-4}
Detector	Photomultiplier Tube (PMT)
Spectral Response Range	340-650 nm
Peak Wavelength	400 nm
Detection Mode	Glow luminescence
Carrier Format	Strip carrier can hold three 12-well strips or three 8-well strips
Vessel	Single, or break apart and non-break apart strips up to 12 wells long, 3 strip loading capacity. 1 – 36 well loading capacity
Display	Interactive touch screen 3.5" (8cm) LCD, color graphic display
Printer	Thermal with graphic capability, approximately 29 characters per line
Speed	Reads, calculates and prints results, in approximately 30 seconds per 12-well strip
Calculation Modes	Single Standard, Factor, multi-point calibration with point-to-point or cubic spline with curve storage, linear regressions with log, linear, and log-logit selections and cut off mode selections
Test Storage	Stores all parameters including, calculations, unit codes, ranges, interpretations, calibrator values, test names, and previous curve
Dimensions & weight	Approximately 9"x13.5"x5" (24x34x13cm) weight: 5 lbs (2.3kg)



Optional SimWell Q.A. Set
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Method for verifying calibration of LumiStat[®] luminometers



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