

Luminex[®] 200[™] System Specifications

For Use With xPONENT[®] 4.3 Software

This document is intended to provide key system specifications for Luminex[®] 200[™] instrument hardware, including the minimum specifications of the PC that will run xPONENT[®] Software.

General

Physical dimensions	Luminex [®] 200 [™] : 43 cm (17 in.) x 50.5 cm (20 in.) x 24.5 cm (9.5 in.) (W x D x H) Luminex XYP: 44 cm (17.25 in.) x 60 cm (23.5 in.) x 8 cm (3 in.) (W x D x H) Luminex SD: 20 cm (8 in.) x 30 cm (11.75 in.) x 24.75 cm (9.75 in.) (W x D x H) Note: Allow an additional 3.18 cm (1.25 in.) clearance to all dimensions for proper cooling
Weight	Luminex [®] 200 [™] : 25 kg (60 lbs) Luminex XYP: 15 kg (33 lbs) Luminex SD: 9 kg (20 lbs)
Operating Temperature	15°—30°C (59°—86°F)
Operating Humidity	20—80%, non-condensing
Shipping and Storage Temperature	0—50°C (32°—122°F)
Shipping and Storage Humidity	20—80%, non-condensing
Altitude	Operation up to 2,400 m (7,874 ft.) above mean sea level
System Warmup Time	30 min Systems that remain inactive for at least four hours will require a warmup to restart the lasers. The system resets the four-hour internal clock after acquiring the sample, running system calibrators, running system controls, or warming up the instrument.
System Initialization	<45 min. (Including laser warmup and weekly calibration)
System Verification	5 min
Heater Operating Range	Maintains samples using the heater block (35—60°C +/- 2°C of set point; 95—131°F)
Plate Run Time	96-well in ≤45 min

Electronics

<i>USB 2.0-compatible communications link for fast data transfer</i>	
Input Voltage Range	100—120 V- ±10%, 1.4 Amp, and 200—240 V- ±10%, 0.8 Amp, 47—63 Hz
Installation Category	II - As defined in IEC 61010-1:2010
Pollution Degree	2 - As defined in IEC 61010-1:2010

Optics

Reporter Channel Detection	A/D resolution 14 bits
Reporter Channel Dynamic Range	3.5 decades of detection
Reporter Laser	532 nm, nominal output 10 mW—15 mW maximum 500 mW, frequency-doubled diode; mode of operation, continuous wave (CW)
Classification Laser	635 nm, 9.1 ± 6%, maximum output 25 mW, diode; mode of operation, continuous wave (CW)
Reporter Detector	Photomultiplier tube, detection bandwidth of 565—585 nm
Classification Detector	Avalanche photodiodes with temperature compensation
Doublet Discrimination Detector	Avalanche photodiodes with temperature compensation

Fluidics

Cuvette	200 micron square flow channel
Sample Injection Rate	1 µL/second
Sample Uptake Volume	20—200 µL
Sheath Flow Rate	5.4 (± 0.3) mL/min.
Sheath Pressure	6—9 PSI for normal operations

PC and Monitor Specifications

Processor	3.0 GHz Intel Core i5 (or higher)
Main Memory	8 GB RAM
Hard Drive	1 TB Hard drive space (or higher)
Ports	1x USB 3.1 Type-C 5x USB 3.1 Type-A 4x USB 2.0 Type-A 2x Display ports 1x VGA port 1x DVD R/W type drive
Operating System	Microsoft® Windows® 10 Professional 64 bit, version 1709 or greater
Screen Resolution	SXGA 1,280 x 1,024, 32 bit color
Screen Size	48.3 cm (19 in.)
Display Settings	96 DPI Font Default Windows® 10 theme

All Luminex instrumentation is CE and Safety Agency marked (MET and/or UL and/or TUV and/or NEMKO) to electrical/safety device standards. For details on approvals and standards compliance, please contact Luminex.

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For more information, please visit: www.luminexcorp.com/Luminex-100200/

Products are region specific and may not be approved in some countries/regions. Please contact Luminex at support@luminexcorp.com to obtain the appropriate product information for your country of residence. The Luminex 200 is a Class 1 Laser Product.

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