

# Luminex® 200™ System Specifications

## For Use With xPONENT® 4.3 Software

### General

Physical dimensions:	Luminex® 200™: 43 cm (17 in.) W x 50.5 cm (20 in.) D x 24.5 cm (9.5 in.) H Luminex XYP: 44 cm (17.25 in.) W x 60 cm (23.5 in.) D x 8 cm (3 in.) H Luminex SD: 20 cm (8 in.) W x 30 cm (11.75 in.) D x 24.75 cm (9.75 in.) 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° C to 30° C (59° F to 86° F)
Operating Humidity:	20% to 80%, non-condensing
Shipping and Storage Temperature:	0 to 50° C (32° F to 122° F)
Shipping and Storage Humidity:	20% to 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 at a constant temperature from 35° C to 55° C (95° F to 131° F), +/- 2° C of set point.
Plate Run Time:	96-well in ≤ 45 min.

### Electronics

USB 2.0-compatible communications link for fast data transfer

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 to 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 to 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 to 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/](http://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. Bio-Techne is an authorized Luminex Partner.

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