

Luminex[®]100™



Specifications

Illumination

532 nm, 10-15mW
635 nm, 9mW
Laser spot sizes 60 μ m x 30 μ m

Fluorescence Wavelengths

Reporter 1 (RP1): 575nm Bandwidth 20nm

Optical Design Elements

Avalanche photodiodes in red and infrared
PMT for best sensitivity in RP1 wavelengths
Square quartz cuvette
Outside - 2mm x 2mm
Inside - 200 μ m x 200 μ m
DSP based waveform analysis for maximum sensitivity

Fluidics

20 μ l to 200 μ l sample uptake volume via sample loop
Integral pneumatic Z axis
Variable sample injection rate on syringe pump:
60 μ l/min, 45 μ l/min and 30 μ l/min
Sample core: 15-20 μ m core @ 60 μ L/min default
Sheath flow rate: 90 μ l/sec
Totally closed system for biohazard containment
On-board sheath fluid pressure pump
External sheath/waste containers

Electrical

Power: 100 - 240 VAC, 1.5 Amps, 47-63Hz

Software Features

Microsoft® Windows® 98 operating system
Real-time data acquisition and display
Instrument calibration and control
Data Export to CSV or FCS 2.0

Physical Dimensions

43 cm (W) x 51 cm (D) x 25 cm (H) (approx.)
17" (W) x 20" (D) x 10" (H) (approx.)
Weight: 25 kg (55 lbs.)

Operating Environment

Operating temperature 15°C to 30°C (59° to 86° F),
20% - 80% relative humidity non condensing
Altitude: up to 2400 m (7874 ft) above mean sea level or below

Controller Hardware

Personal computer with 17" monitor
41 cm (W) x 43 cm (D) x 53 cm (H) (approx.)
16" (W) x 17" (D) x 21" (H) (approx.)
Shipping Weight: 37 kg (82 lbs.)
Power: 115 - 230 VAC, 5.6 Amps, 50-60Hz

Order Information

Luminex 100 Instrument
Includes PC, monitor, and accessories
Product No. CN-L001-01

To order, call: 888-219-8020

For technical support, call: 877-785-2323 (U.S. and Canada) or +1 512-381-4397 (International)
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