



MACSQuant® Analyzer

Instrument specifications

Laser	3 air-cooled lasers (excitation wavelengths: 405 nm, 488 nm, and 635 nm)	
Optical parameters	FSC, SSC, and eight fluorescence channels	
Default detection dyes	Violet laser (405 nm): V1: 450/50 nm (VioBlue®, Hoechst™, Pacific Blue™) V2: 585/40 nm (Pacific Orange™)	Blue laser (488 nm): B1: 525/50 nm (GFP, FITC) B2: 641/50 nm (PE) B3: 655–730 nm (PI, PE-Cy®5.5, PerCP) B4: 750 nm LP (PE-Cy7)
	Red laser (635 nm): R1: 655–730 nm (APC) R2: 750 nm (APC-Cy7)	
Compensation	Manual or automated 8 × 8 matrix (during or post acquisition)	
Analysis rate	Up to 10 ⁴ events/second	
MACS® Cell Enrichment Unit	For pre-analysis enrichment of rare cells	
Absolute cell count performance	Accuracy +/- 5%; reproducibility (CV) <5%	
Fluorescence performance	5 decade logarithmic scales (10 ² to 10 ³)	
Fluorescence sensitivity and resolution	MESFs: <200 FITC; <100 PE; <150 APC CV <5%	
Minimal sampling volume	25 µL	
Sample flow rate	25–100 µL/minute	
System maintenance	Automated startup, cleaning cycles, and shutdown	
Multisample labeling	Autolabeling with up to 4 MACS Reagents	
Multisample processing	Fully automated multisample processing from a single tube to a 96-well plate	
Sample uptake	Uptake port (for y/z axis movements) with an automated washing station	
Sheath fluid consumption	2–10 mL/minute	
Operating system/software	Microsoft® Windows®/MACSQuantify™	

Ports	USB-2, Ethernet (100 Mbit/second)
Monitor	12" touchscreen (internal)
DVD writer	Built-in
Power consumption	350 W
Weight	50 kg (110 lbs)
Certification	UL-listed and CE-marked
MACSQuant Live Support	For reliable technical support in realtime
Size (WxDxH)	600 × 350 × 400 mm (23.6 × 13.8 × 15.7")



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