

Specifications

Optics	Excitation lasers	488 nm, 638 nm, 405 nm, 561 nm
	Output power	Optical fiber output : 405 nm: (10 mW max.), 488 nm, 638 nm, and 561 nm: (36 mW max.)
	Beam alignment	Dual axis optical system
	Detection parameters	12 fluorescence + 2 scatter
	Pulse measurement	Height, Area, Width
Fluidics	Sample tube	Single, auto-loading tube
	Tube types	0.5-mL, 1.5-mL, 5-mL, and 15-mL tubes
	Sort devices	2-way tube, 4-way tube, multiwell plates, PCR plates
	Temperature control	5°C, 37°C (electric cooling method)
	Agitation unit	Eccentric rotation
	Magnetic drive	300-rpm speed
	Sorting chip size	70 µm, 100 µm, 130 µm
Sort Performance	Event rate	70,000 eps
	Sorting speed	<p>Automated frequency search range</p> <ul style="list-style-type: none"> • 70 µm : 40 kHz to 52 kHz • 100 µm [Targeted] setting : 21 kHz to 23.5 kHz • 100 µm [Standard] setting : 27 kHz to 31 kHz • 130 µm : 10 kHz to 12 kHz <p>Using the 70-µm sorting chip at 52 kHz and a threshold rate of 12,000 events per second, purity >98% and recovery >80% can be achieved. The yield obtained is based on Poisson's statistics. Higher threshold events per second can be achieved without affecting purity but with a decrease in yield based on Poisson's statistics.</p>
	Scatter resolution	0.5 µm
	Fluorescence resolution	<3.0% coefficient of variation (CV): PI stained CEN
	Fluorescence sensitivity	FITC ≤94 MESF, PE ≤88 MESF
	Dimensions	W: 21.7" (55 cm) x D: 21.7" (55 cm) x H: 28.4" (72 cm)
Ancillary	Fluidics cart	W: 33.9" (86 cm) x D: 17.3" (44 cm) x H: 11.8" (30 cm)
	Weight	231 lb (105 kg)
	Fluidics cart	108 lb (49 kg) (dry weight)
	LCD panel	7-inch, 800 x 480 pixels
	Power supply	100–240 V, 50/60 Hz
	Power consumption	600 W (max.)
	Operating temperature	19.5°C to 27.5°C
	Relative humidity	20% to 80%
	Compliance	Operating system
Data file structure		Flow Cytometry Standard (FCS) 3.0 or 3.1
Safety standards compliance		UL, CE, CSA