

## BeamCyte™ 1026 Technical Parameters

Item	Parameters
	Semiconductor laser (488nm, 638nm) 6 Fluorescence channels
Laser, Power	488 nm laser, standard configuration 20mW, optional Configuration 40/60mW 638 nm laser, standard configuration 20mW, optional Configuration 40/60mW
Filters configuration	488nm laser: 530/30 nm BP FITC, 585/42 nm BP PE, 700 BP PerCP/ PE-Cy 5, 785/55 nm BP PE-Cy7 638nm laser: 660/20 nm BP APC, 785/55 nm BP APC-Cy7;
Optics	The excitation and receiving of solid spatial separation.No fiber conduction. Fixed optical path.
Optical System	Sensitivity of fluorescence FITC < 75 MESF; PE < 55 MESF; APC < 55 MESF
	FSC sensitivity 0.5 μm
	SSC sensitivity 0.2 μm
	Range of particles 0.2-60 μm
	Linear ≥ 0.98
	Resolution CV ≤2%
	Carry-over ≤ 0.1%
	Detector Avalanche Photodiode Detector(APD)
	Speed 45,000 events/s; 96 - well plates/30min
	Minimum sample volume 10μL
	Speed of sample 15 ~ 235 μL/Min
	Absolute count Volumetric method; Microspheres method;
	Preheating time <4min
Fluidics System & Electrical System	Blending mode Whole plate;single pipe;interval mixing is set freely;
	Tube numbers of leader 40tubes and 96 holes
	Type of tube Standard flow pipe (12x75mm, 5ml) , 96 - well plates(F,U,V type), Centrifugal tube (1.5ml, 2ml)
	Capacity of Liquid bottle Waste liquid barrel 6L,Sheath liquid drum 6L,Cleaning liquid drum 1L;
	Maintenance system Liquid path maintenance automation
Computer Data Analysis System	Software The software has the edition in English and Chinese. With the function of automatic quality control detection, software can draw Levey-Jennings curve automatically. Support to be connected with clinical LIS software, to facilitate data graphic transmission.
	Feature of software Automatic saving mode against power failure; Detection and analysis can run at the same time.
	Compensation Compensation Matrix List; Quick Compensation ; Auto Compensation Calculation; Auto Compensation;
	FCS format FCS 3.0
Installing Environmenta Conditions	Volume The host system: 44 x 43.5 x 52 cm(W x D x H cm); The host system with leader: 57.2 x 53.3 x 52 cm(W x D x H cm); Liquid tray: 44 x 32 x 45 cm(W x D x H cm);
	Weight The host system: 32 Kg;The host system with leader: 38 Kg;Liquid tray: 7 Kg;
	Operational environment 10 - 35°C , 15-80 % RH
	Voltage 220 V~,50Hz
	Computer operating system Win10 pro