

Flow Cytometer



miRNA



cfDNA



Microsphere



Cell Analysis

Specifications

Feature	Performance
Resolution	FSC≤2.0%, FITC,PE≤2.0%, PerCP,PE-Cy7,APC,APC-Cy7≤4.0%
Fluorescence Sensitivity	FITC≤120 MESF, PE≤80 MESF
Dynamic Range	2 ¹⁸
Carryover	≤0.5%
Analysis Speed	50,000 Events/s
Min. Specimen Volume	50μL(test tube: 12×75 mm)
Max. Particle Size	40μm
Flow Rate	12μL/min, 33μL/min, 82μL/min, 124μL/min
Sample Capacity	32

Configurations

Laser	Filter	Fluorescein	FC-3040	FC-3050	FC-3060
Blue, 488 nm Solid 43mW	FL1 (530/30)	FITC	✓	✓	✓
	FL2 (585/40)	PE	✓	✓	✓
	FL3 (670LP)	PerCP	✓	✓	✓
	FL5 (785/60)	PE-CY7		✓	✓
Red, 638 nm Solid 55mW	FL4 (660/20)	APC	✓	✓	✓
	FL6 (785/60)	APC-CY7			✓

Features



High Resolution

Quality components, reliable optical and fluidic designs and innovative algorithm realize excellent fluorescence resolution and minimum variation.



High Sensitivity

Higher sensitivity enhances the capability to discern weak positive signal.



Broad Dynamic Range

2¹⁸ range of fluorescent or scattered light signals.



Low Carryover

Effective sample needle wash mechanism and time sequence design reduce the carryover contamination to 0.5%.



Data Generation & Filtering

Innovative signal extraction and effective denoise filter algorithm.



Reliable Optics

The immobilized optic design greatly simplify the maintenance and calibration of the instrument. The effective locking mechanism eliminates most undesired vibration and thus diminishes fluctuation accordingly. The low power consumption solid phase laser can provide more uniform focal spot. The TEC temperature controller is integrated into the laser to modulate the energy fluctuation and spot drifting caused by heat, and extend the laser life expectancy. The whole optic module is free of daily alignment and maintenance for the sake of operational convenience and data consistency.



Absolute Cell Counting

Precision syringe volume control devoid of counting tube or other reagents. Immune to computational error from minor pressure change or volume measurement deviation.



Auto Gain

Automatic PMT gain adjustment, precision offluorescence compensation down to 0.01% in areal time manner.



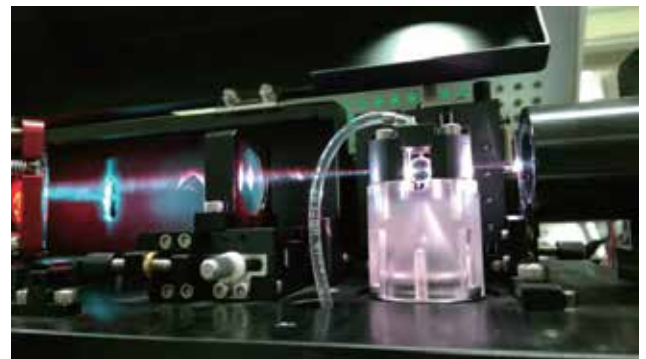
Automatic Sample Load

Automatic Sample Loader in the standard configuration can hold 32 samples with precursive mixing against precipitation to break the throughput bottle neck.

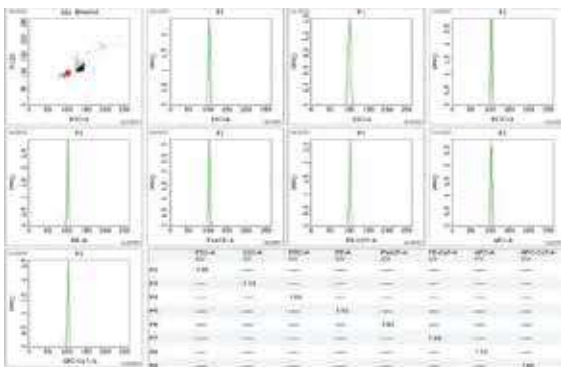


Versatile Software

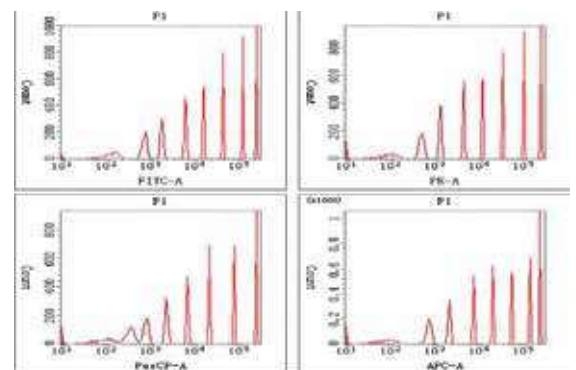
Application software for data collection, analysis and report; process-oriented intuitive user interface in modular design; quick switch between multi-language pack; direct PDF report generation; broad spectrum for gate drawing methods on scatterplots.



Performances



The resolution CV of CytoNova is less than 2% in QC tests with standard fluorescent particles, which prove the performance of advanced optical and fluidic design.



The capability to detect rare events, weak positive signals and smaller particles are indicated in tests with fluorescent particles on CytoNova.

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

- HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.
- Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.
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UV/VIS Spectro 2060+ Double Beam	FTIR	Gas Chromatograph 3000	Gas Chromatograph 2979 Plus	Flash Chromatograph	Atomic Absorption Spectrophotometer	Liquid Partical Counter
						
Optical Emission Spectrophotometer	DSC/TGA	NOVA 2020 plus Automated Bio Chemistry Analyzer	HEMA 2020 Hematology Analyzer	Micro Plate Reader/Washer	URINOVA 2800 Urine Analyzer	Total Organic Carbon
						
Fully Automated CLIA	NOVA Basic Semi-Auto Chemistry Analyzer	PCR/Gradient PCR/ RTPCR	Blood Gas Analyzer	Random access Analyzer for immunoassay Proteins & clinical chemistry	Semen Analyzer	Water purification system

Regulatory compliances



Corporate Social Responsibility



TM

Analytical Foundation

Analytical Foundation is a nonprofit organization (NGO) founded for the purpose of:

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various fields of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org
2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.
3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Comps etc.

Reach us @



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