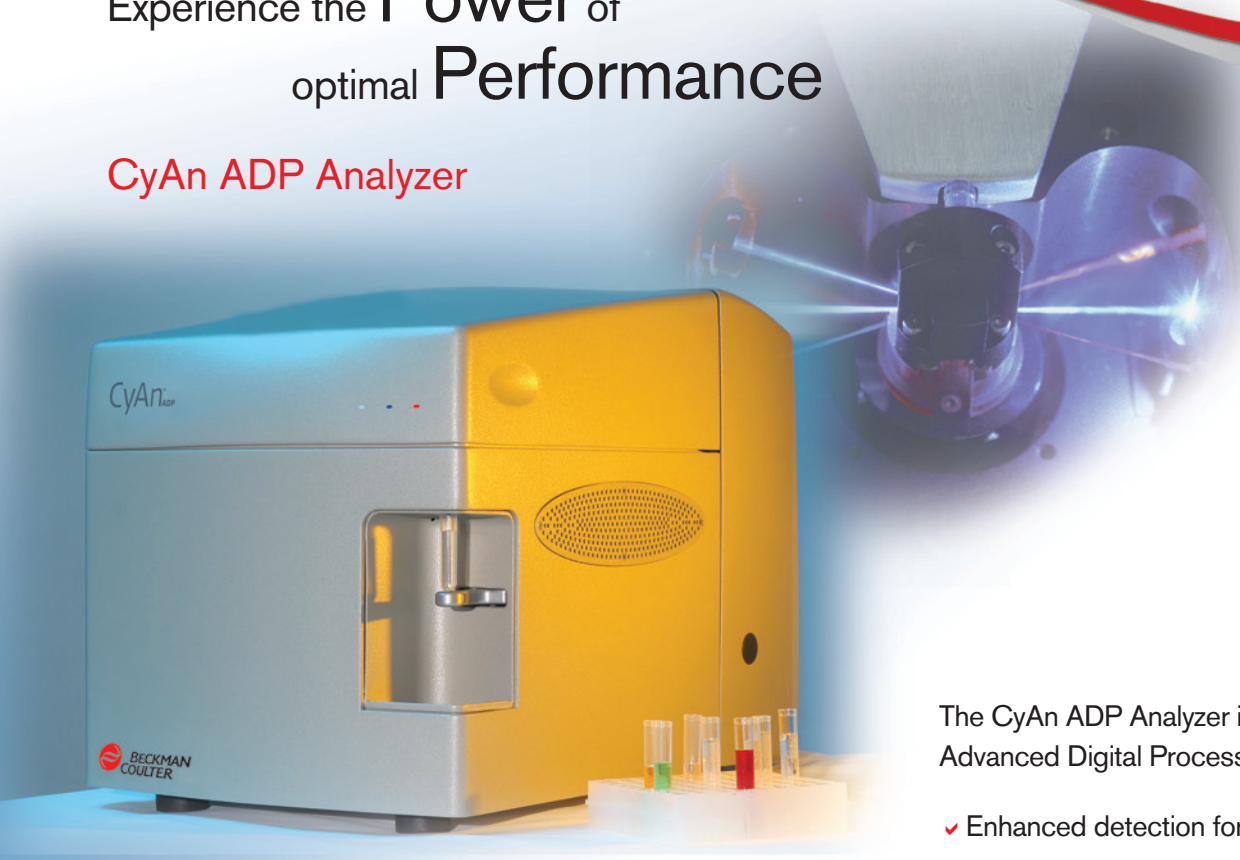
Experience the Power of optimal Performance

CyAn ADP Analyzer



The CyAn ADP Analyzer is the next step in Advanced Digital Processing with

- Enhanced detection for flow cytometry
- State-of-the-art optics and electronics
- Automated compensation
- Easy to use walk-up operation

We offer two models to accommodate a diverse range of applications, with up to 11 standard parameters and 9 colors.

CyAn ADP 7 Color has 9 parameters (FSC, SCC, FL1-FL7) and is equipped with 488 nm and 642 nm solid-state lasers. Some key research applications include CD34 enumeration, signal transduction, antigen-specific T-cell detection and multicolor immunophenotyping.

CyAn ADP 9 Color adds the 405nm solid state laser and two fluorescent parameters. Additional research applications include stem cell/SP analysis, DAPI Cell Cycle analysis and CFP-YFP FRET analysis.

BR-11390C

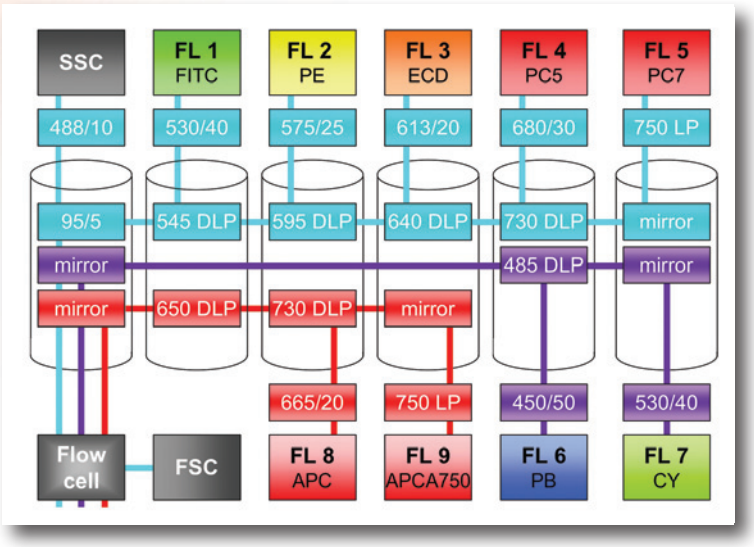
Experience the Power of the CyAn ADP … and its optimal Performance

The CyAn ADP High-Performance Flow Cytometer is a state-of-the-art flow cytometer that utilizes multiple laser excitation sources to analyze biological cells, beads, or other microscopic particles.

The CyAn ADP has state-of-the-art optics, utilizes high performance digitization with pulse processing speed up to **70,000** events per second complementing a high acquisition and analysis capability of up to **100,000,000** events.

Up to 9 x 9 parameter compensation can be performed manually, using bi-exponential transformation (VisiComp) or automatically.

Summit Software is easy to learn and operate. It offers a workspace concept, detachable menus, drag and drop mouse functions, as well as data presentation tools such as overlay plots and multi file plots. The comprehensive Graphical User Interphase (GUI) is convenient both for online and offline work. The software package is included and unlimited copies are provided for oline analysis.



State-of-the-art optics provide enhanced performance for all applications including dim cell populations. High sensitivity and greater resolution for each parameter give you accurate results whether you are running a three color application or taking advantage of the nine fluorescence parameters.

- Peak performance in all parameters
- High sensitivity and greater resolution
- Detect dimmest populations

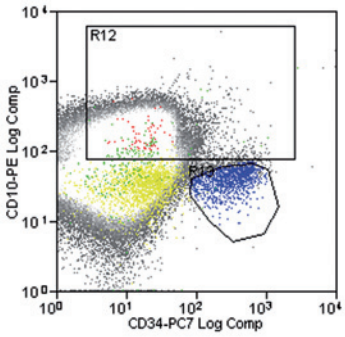
Laser Light Source	Parameters	Fluorochromes Detected with Standard CyAn Configuration
488 nm	FL1	FITC, GFP, CFSE, Alexa Fluor 488, YFP*
	FL2	PE
	FL3	ECD, PE-Alexa Fluor 610, PI, Qdot605
	FL4	PC5, PerCP, PC5.5, PerCP-Cy5.5*, 7-AAD, Qdot655*
	FL5	PC7, PE-Alexa Fluor 750, Qdot705*
405 nm	FL6	Pacific Blue, Cascade Blue, DAPI, CFP*
	FL7	Cascade Yellow, Pacific Orange, AmCyan*, Qdot565*
642 nm	FL8	APC
	FL9	APC-Cy7, APC-Alexa Fluor 700*, APC-Cy5.5*, Alexa Fluor 700*, Qdot800

* Filter change recommended

Summit Software v4.3.1

Summit software is designed for your laboratory needs, with more power, advanced analysis tools, flexibility and greater ease of use.

- Conveniently monitor and control instrument status
- Define combinations of samples and workspaces that fit your workflow
- Easily adjust compensation with auto-compensation feature
- Define and use your individual protocols, compensation settings and workspaces for your experiments
- Configure your acquisition batch, protocol panels, reagents and tubes
- Allows multi-file display



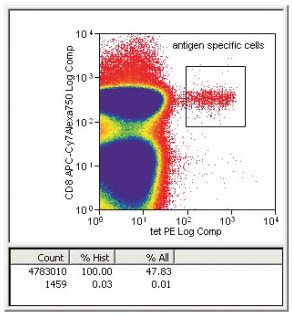
Increased Sensitivity and Reliability in Minimal Residual Disease (MRD) Detection with CyAn ADP.

The sensitivity of MRD detection depends on the number of cells acquired and a reliable characterization and differentiation of regenerating normal B cells and residual abnormal cells. By applying 9 colors per tube more events can be acquired and the abnormal cells are more precisely identified.

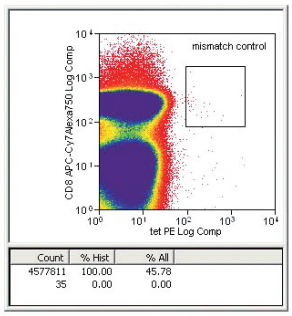
Rare event Analysis of Antigen Specific T Cells using MHC multimers

Ten million events from the analysis sample (stained with HLA-A1 $pp50_{245-253}$/PE tetramers), mismatch control (HLA-B8 IE-1_{88-96}/PE multimer) and "no tetramer" were acquired. It took 2:20 minutes to acquire the samples at 70,000 events per second.

A total of 1,459 HLA-A1-restricted $pp50_{245-253}$-specific T cells were found in the acquired 10 million events, equivalent to 0.01% (frequency of rare events 1/10,000) of the analyzed cells.

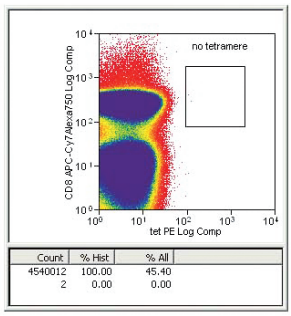


HLA-A1 $pp50_{245-253}$



HLA-B8 IE-1_{88-96}

"HLA mismatch control"



No Tetramer

10 MEGA events total

Beckman Coulter offers you an extensive range of high-quality antibodies conjugated to a wide variety of fluorochromes in their Cellular Analysis Catalog and via the Custom Design Service.

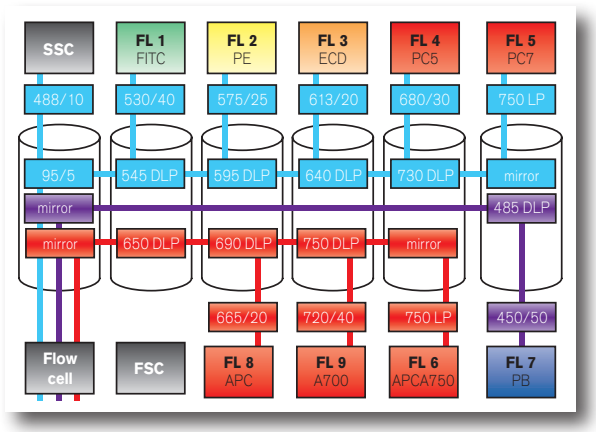
CyAn ADP Specifications

Models	CyAn ADP 7 color CyAn ADP 9 color
Excitation lines	2 or 3
Light sources	405 nm 50mW solid state laser 488 nm 25mW solid state laser 642 nm 60mW diode
Optical parameters	FSC, SSC and 7 or 9 fluorescence parameters
Maximal processing speed	Up to 70,000 events per second
Sample flow rate	Up to 150 µL/min (2.5 µL/sec)
Quartz cuvette	Fused silica with 250 µm square sectioned internal channel
Compensation	9 x 9 matrix, auto compensation
Signal resolution	4096 channels on all parameters
Sensitivity	MESF FITC < 100, MESF PE < 50
Beam geometry	Elliptical/spherical
Sheath Management System	Electronically controlled fluidics management for sheath, waste, and cleaning liquid with continuous adjustable flow rate
Instrument footprint	width 30 cm / 11.8 inch depth 45 cm / 17.7 inch height 40 cm / 15.7 inch
Instrument weight	< 40 kg (88.2 lbs)
Noise level	< 70 dB
Software	Summit Software version 4.3.1
Operating system	Windows XP Professional
Power supply	UPS for 90V / 110V / 220V

For Research Use Only. Not to be used in diagnostic procedures.
Class I laser product.

	CyAn ADP 7 Color	CyAn ADP 9 Color
Lasers	2	3
Parameters	9	11
Colors	7	9
488 nm	5	5
642 nm	2	2 or 3
405 nm	-	1 or 2

Optional Expanded 642 nm Filter Configuration



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