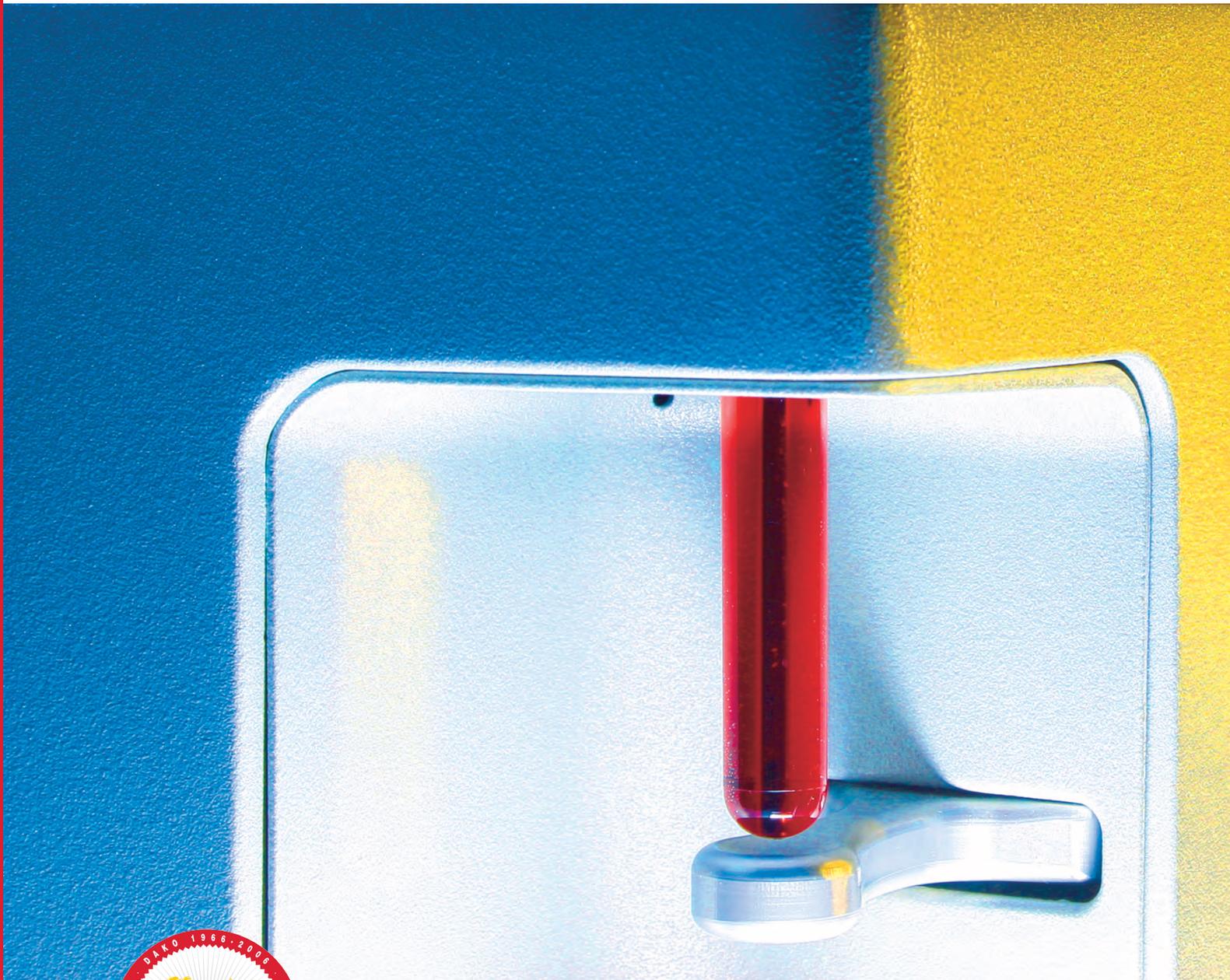




FLOW CYTOMETRY

CyAn™ ADP | Analyzer



Experience the **Power of the CyAn ADP**... and its optimal performance

The Power of **Detection**

The Power of **Speed**

The Power of **Ease**

The Power of **Size**

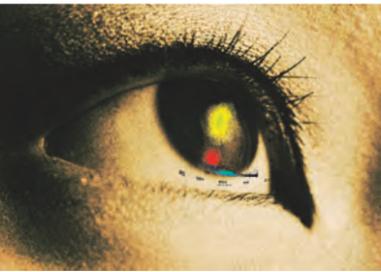
The Power of **Choosing Us**

The CyAn ADP Analyzer is the next step in Advanced Digital Processing with enhanced detection for flow cytometry. The CyAn ADP has state-of-the-art optics, electronics, and fluidics offering automated compensation with the highest acquisition rates, easy to use walk-up operation on the smallest instrument footprint in its class. Dako offers two models to accommodate a diverse range of applications, with up to 11 standard parameters and 9 colors.

Dako offers you an extensive standard range of high-quality monoclonal and polyclonal antibodies conjugated to FITC, RPE, RPE-Cy5, APC, Pacific Blue and Cascade Yellow.



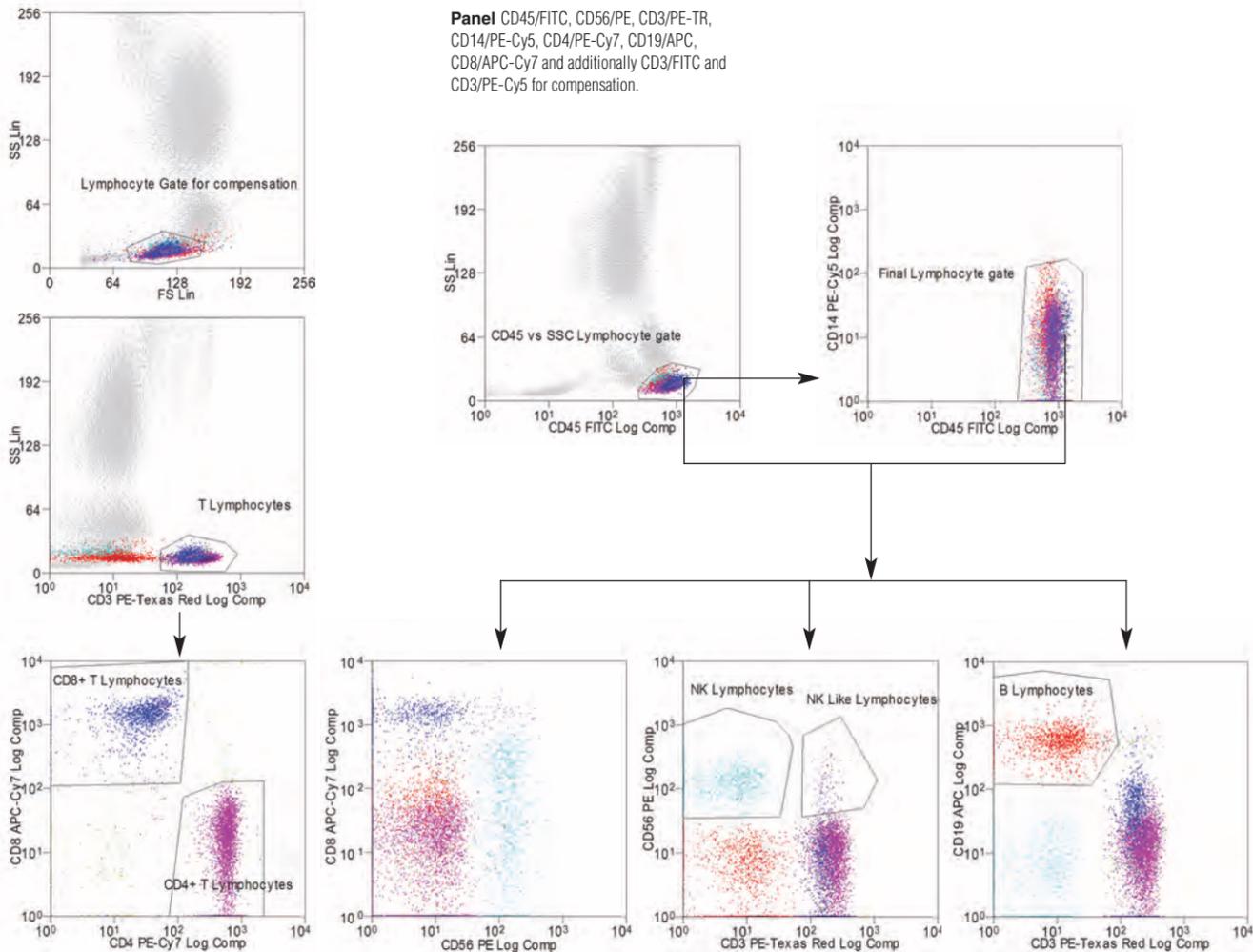
Experience the **Power of Detection**... and the precise results it gives you



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 colors available.

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

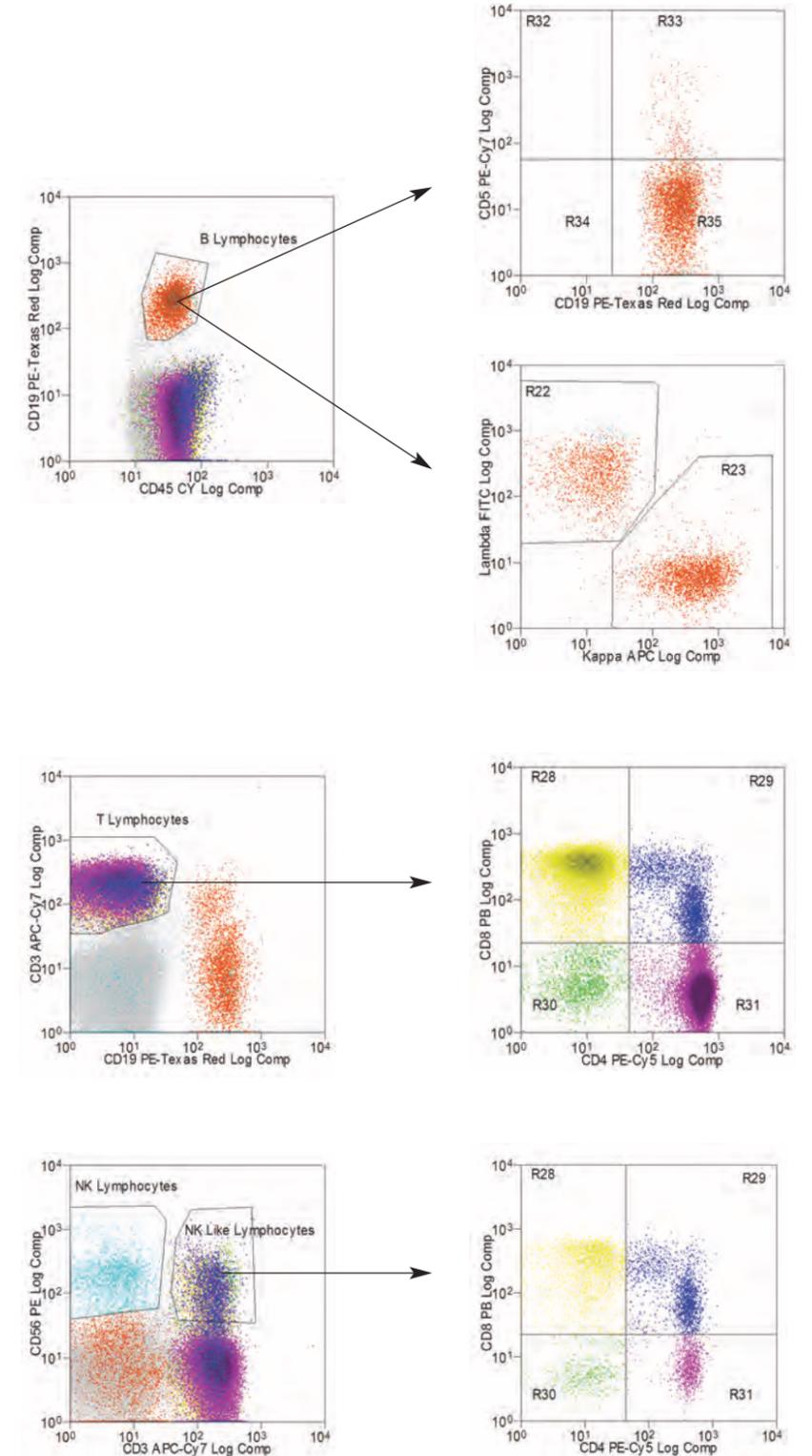
**7-color analysis of lysed and washed human peripheral blood**



**High-speed 9-color no-lyse analysis of human peripheral blood at a sample flow rate of 150  $\mu$ L/min**

**Panel** Lambda/FITC, CD56/PE, CD19/PE-TR, CD4/PE-Cy5, CD5/PE-Cy7, CD8/PB, CD45/CY, Kappa/APC and CD3/APC-Cy7.

**Procedure** 100  $\mu$ L EDTA blood was washed twice in 20 mL PBS. 5  $\mu$ L of 9-color mix was added to 50  $\mu$ L of the washed cells. After 15 minutes incubation at room temperature in the dark, 500  $\mu$ L PBS was added and the sample acquired on CyAn ADP at 150  $\mu$ L/min.



Experience the **Power of Speed**... and maximize your workflow



Parallel processing of digital signals, a technology first patented by Dako, keeps you on the cutting edge with unmatched acquisition rates of up to 70,000 events per second.

- > Ideal for rare event applications
- > Save time
- > Increase productivity

**High-speed screening for CMV-antigen-specific T-cells in unlysed human blood**

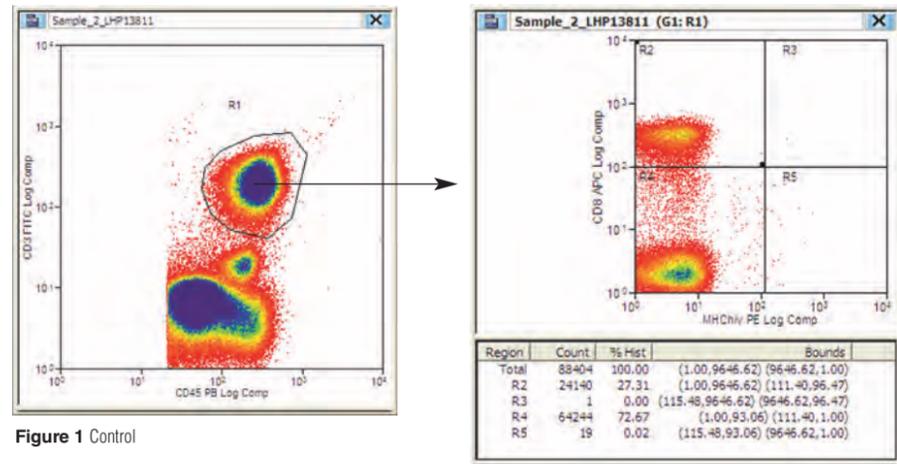


Figure 1 Control

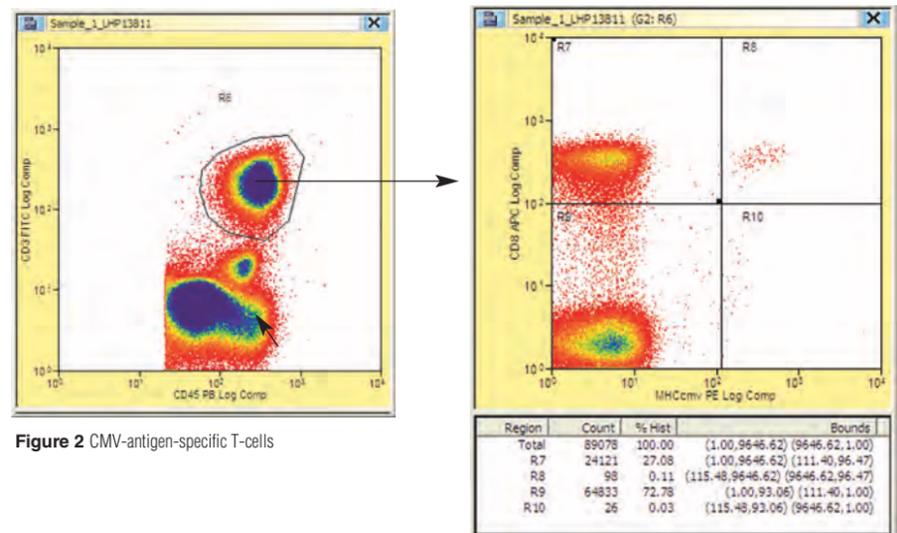
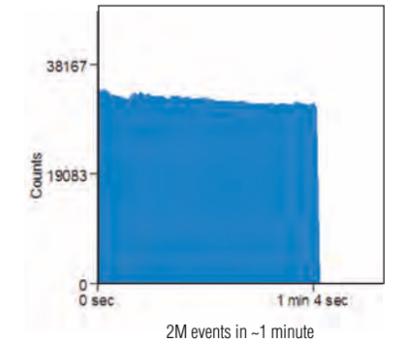
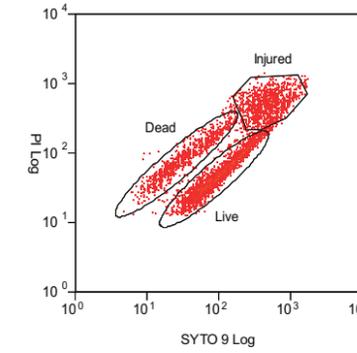


Figure 2 CMV-antigen-specific T-cells

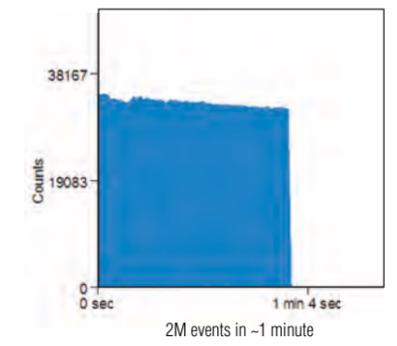
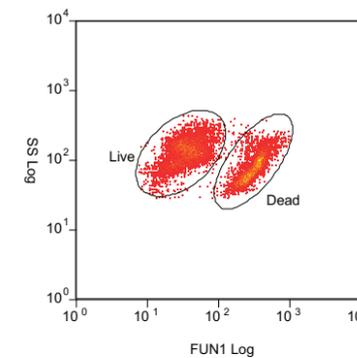
**4-color reagent** CD45/PB, CD3/FITC, CD8/APC, MHC Dextramer/PE. MHC Dextramer: HLA class 1 Allele A\* 0201 loaded with HIV RT peptide ILKEPVHGV as control (Figure 1) or HCMVpp65 peptide NLVPMVATV (Figure 2).

**Procedure** 6 µL of reagent was incubated with 100 µL EDTA treated blood for 15 minutes at room temperature. Subsequently the sample was diluted with 1 mL PBS and acquired on CyAn ADP at 150 µL/min.

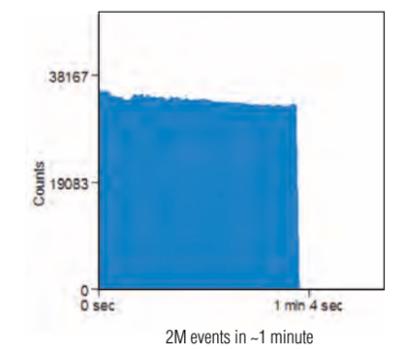
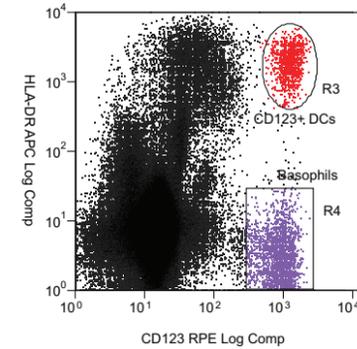
**Bacterial viability**



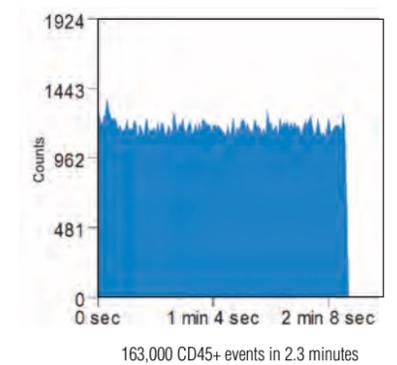
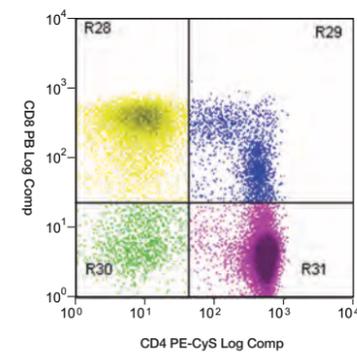
**Yeast viability**



**Dendritic cells: rare event analysis**



**9-color immunophenotyping at 150 µL/min**



Experience the **Power of Ease**... and the peace of mind it gives you



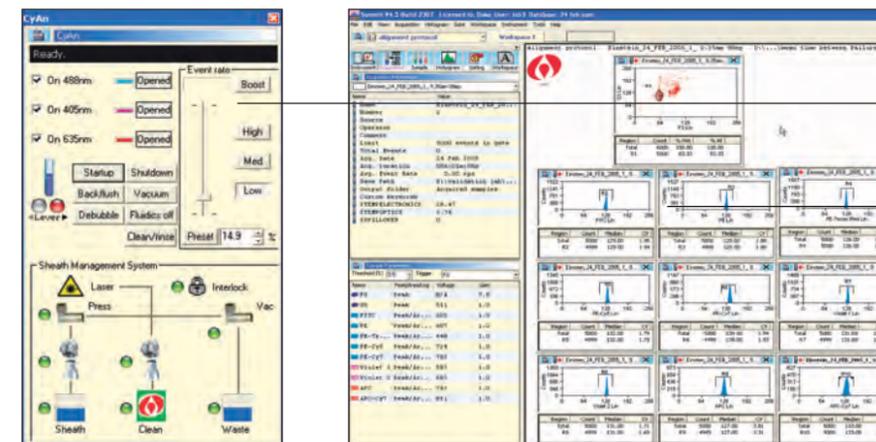
Summit software v4.3 interface puts advanced analysis at your fingertips. Flexible management tools allow you to define samples, workspaces, and monitor instrument status in parallel.

- > All processes on one screen
- > Utilize an intuitive software
- > Walk-up operation

### Summit Software v4.3

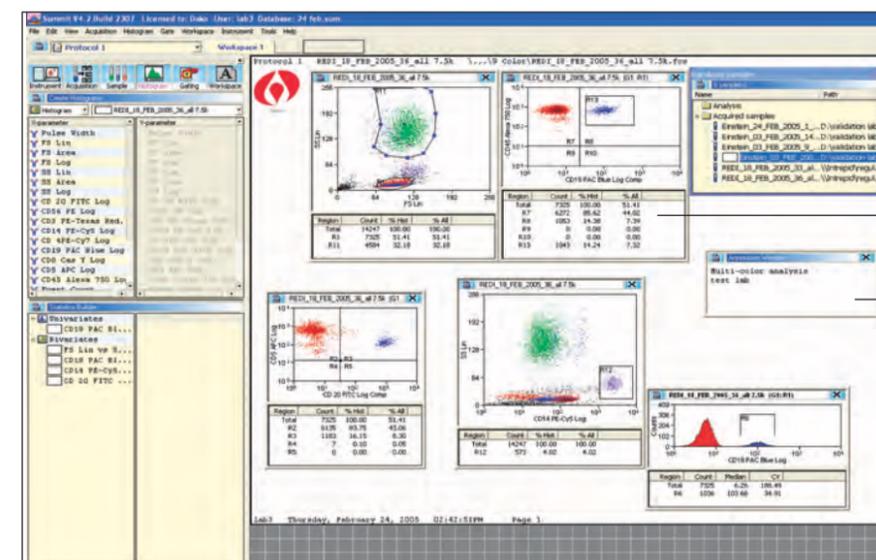
Summit software new version 4.3 is designed for your laboratory needs, with more power, advanced analysis tools, flexibility and greater ease of use.

- > 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



Control fluidics in detail

Create and group results in work spaces as needed



Select extended statistics

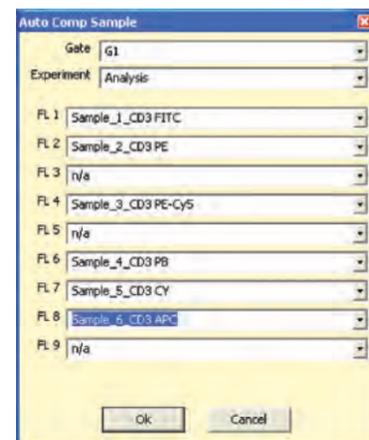
Write additional information or add files

Experience the **Power of Ease**... and the peace of mind it gives you

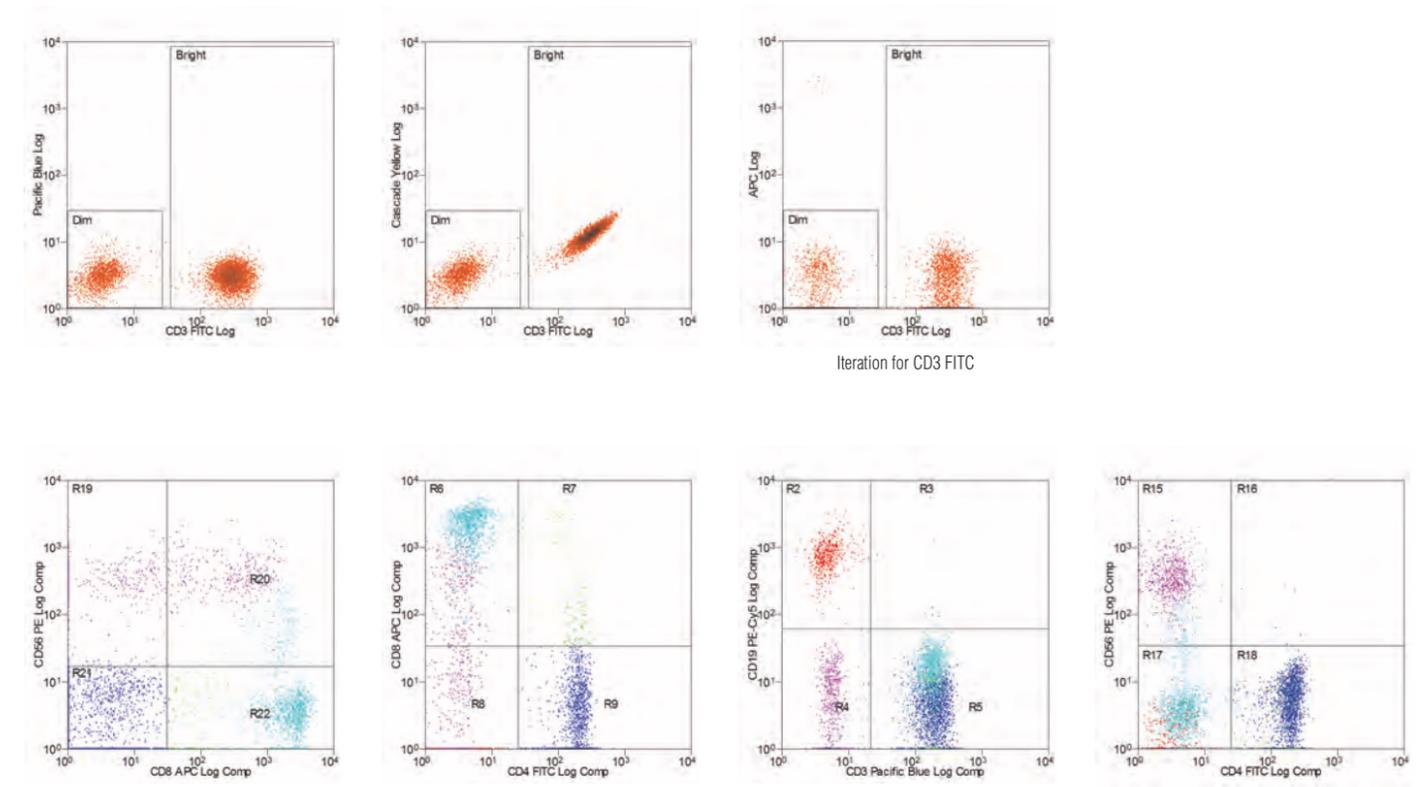
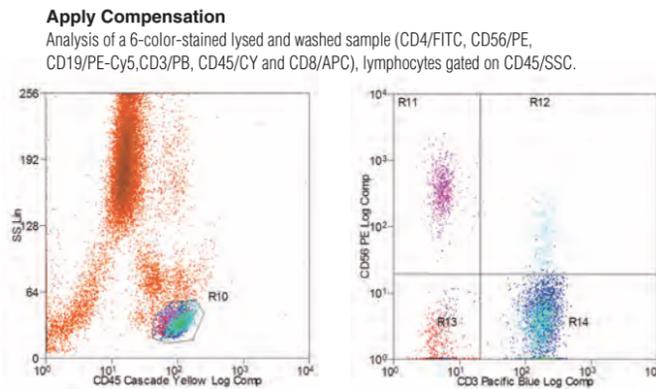
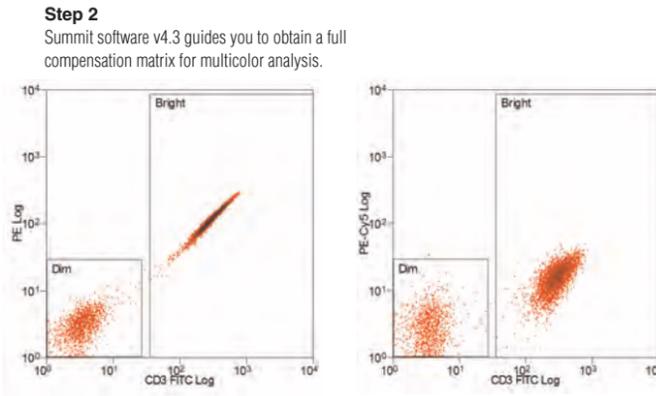
**Auto-Compensate function in Summit Software v4.3 makes compensation easy in 2 steps**

The compensation matrix is calculated from single stained controls by the auto-compensate function in Summit software v4.3.

**Step 1**  
Simply select the files with data from single controls, select a gate if necessary and click OK.



**Example**  
10 µL of 6-color mix (CD4/FITC, CD56/PE, CD19/PE-Cy5, CD3/PB, CD45/CY and CD8/APC) was added to 100 µL EDTA peripheral blood and allowed to incubate for 20 minutes at room temperature in the dark. The blood was lysed with EasyLyse™ and washed in PBS before the data was acquired by a CyAn ADP.

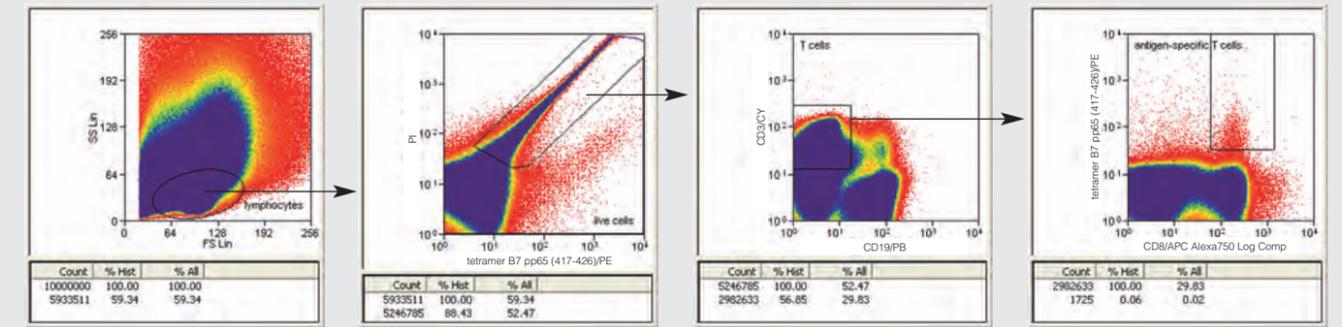
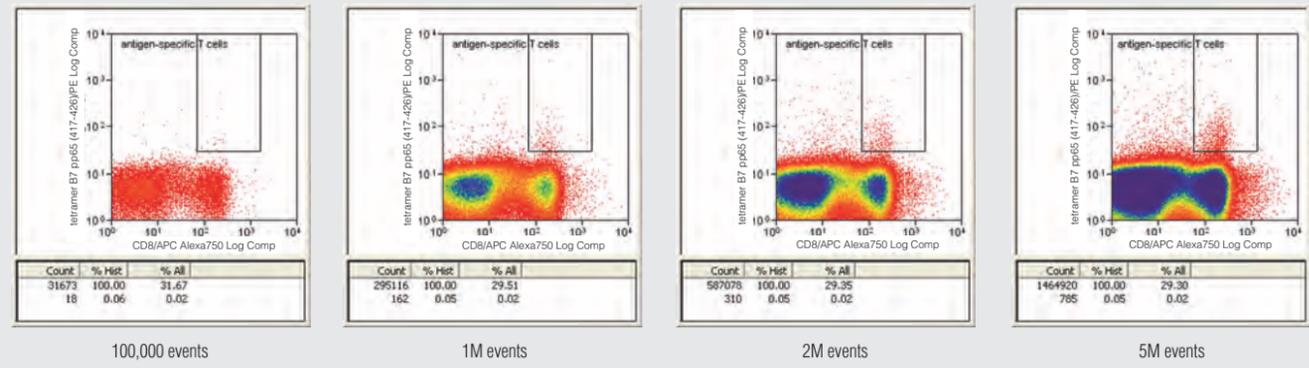


**Utilize the Fast Acquisition / Analysis capability of CyAn ADP with Summit Software v4.3**

**Acquire and analyze up to 10 million events**  
PBMCs were stained with a 7 color mix of titrated antibodies/tetramers (CD62L/FITC, CMV specific tetramer B7 pp65 (417-426)/PE; the specificity of the stain was confirmed by HLA mismatch control tetramer B8 IE-1(88-96)/PE; CD4/PerCP, CD19/PB, CD3/CY,

CD45RA/APC, CD8/APC-Alexa750), incubated for 20 minutes on ice in the dark, then washed with PBS 2.5 times. The dim tet stain was specific for the patient material applied. PI was added prior to acquisition with a CyAn ADP.

**10M events, 8 colors, 37 parameters, 25K eps**  
**Acquired in 6.8 minutes, saved in 1.6 minutes, loaded in 25 seconds, gated in 1.8 minutes**



Experience the **Power of Size**... and how it helps you configure your laboratory



Effectiveness, efficiency and comfort are the most important goals when setting up a new laboratory or adding instrumentation. Many variables need to be considered, such as lighting, traffic flow, accessibility, hands-on time and adequate work space.

The CyAn ADP is compact, fits anywhere, is easy to use and leaves more space on the workbench, giving you the flexibility to set up your laboratory according to your needs and daily priorities.

- > Compact footprint
- > Increase effectiveness, efficiency and comfort
- > Free table space

The CyAn ADP footprint  
versus other instruments.  
30 cm w x 45 cm d x 40 cm h  
9 colors



182 cm w x 91 cm d x 61 cm h

90 cm w x 74 cm d x 61 cm h

91 cm w x 62 cm d x 67 cm h

90 cm w x 61 cm d x 64 cm h

Experience the **Power of Choosing Us**... and a committed long-term partnership



Dako is the partner you are looking for. A friendly global team of dedicated specialists backed by decades of expertise in flow cytometry instrumentation and reagents provides you with modular and flexible solutions for your scientific needs.

- > Dedicated service
- > Professional training
- > Experienced application specialists



## CyAn ADP Models

### CyAn ADP LX 7 Color

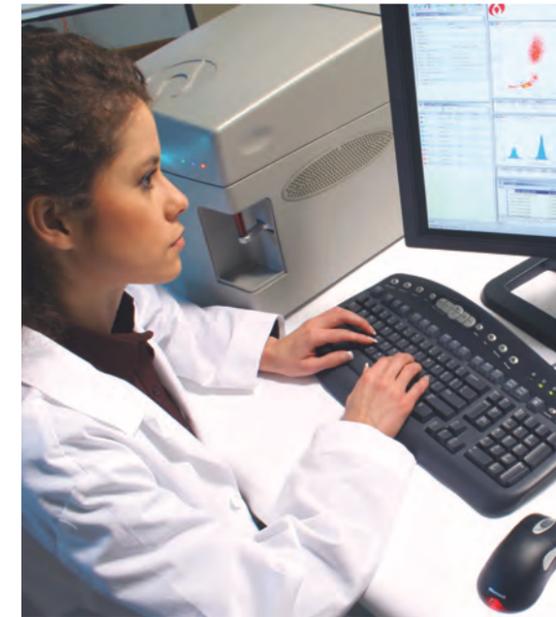
#### CY 200

CyAn ADP LX 7 Color has 9 parameters (FSC, SSC, FL1-FL7) and is equipped with 488 nm and 635 nm solid-state lasers. This model is ideal for up to 7-color analysis using a combination of FITC, PE, PE-Texas Red, PE-Cy5 or PER-CP, PE-Cy7, APC and APC-Cy7 or other fluorochromes. Some key applications include CD34 enumeration, signal transduction, antigen-specific T-cell detection and multicolor immunophenotyping.

### CyAn ADP LX 9 Color

#### CY 201

CyAn ADP LX 9 Color has 11 parameters (FSC, SSC, FL1-FL9) and is equipped with 488 nm, 635 nm, and 405 nm solid-state lasers. This model is ideal for up to 9-color analysis using a combination of FITC, PE, PE-Texas Red, PE-Cy5 or PER-CP, PE-Cy7, APC, APC-Cy7, fluorescent proteins, Pacific Blue and Cascade Yellow or other fluorochromes. Some key applications include stem cell/SP analysis, CD34 enumeration, signal transduction, antigen-specific T-cell detection, multicolor immunophenotyping and GFP-YFP FRET analysis.



Code	CyAn ADP Models	Lasers	Parameters	Colors	488 nm	635 nm	405 nm
<b>CY200 30</b>	CyAn ADP LX 7 Color, 9 Parameters, 110 V	2	9	7	5	2	-
<b>CY200 31</b>	CyAn ADP LX 7 Color, 9 Parameters, 220 V						
<b>CY200 33</b>	CyAn ADP LX 7 Color, 9 Parameters, 90 V						
<b>CY201 30</b>	CyAn ADP LX 9 Color, 11 Parameters, 110 V	3	11	9	5	2	2
<b>CY201 31</b>	CyAn ADP LX 9 Color, 11 Parameters, 220 V						
<b>CY201 33</b>	CyAn ADP LX 9 Color, 11 Parameters, 90 V						

## CyAn ADP Data Sheet

<b>Excitation lines</b>	2 or 3
<b>Lasers</b>	488 nm, 635 nm, 405 nm
<b>Optical parameters</b>	FSC, SSC and 7 or 9 fluorescence channels
<b>Maximal processing speed</b>	Up to 70,000 events per second
<b>Sample flow rate</b>	Up to 150 µL/min (2.5 µL/sec)
<b>Quartz cuvette</b>	Fused silica with 250 µm square sectioned internal channel
<b>Compensation</b>	9 x 9 matrix, auto compensation
<b>Signal resolution</b>	4096 channels on all parameters
<b>Sensitivity</b>	MESF FITC < 100, MESF PE < 50
<b>Beam geometry</b>	Elliptical/spherical
<b>Sheath Management System</b>	Controls sheath, waste, and cleaning fluids Software, hardware and smart-sensor controls with RUN/PAUSE modes Continuous adjustable flow rate
<b>Instrument footprint</b>	30 cm wide x 45 cm deep x 40 cm high 11.8 inch wide x 17.7 inch deep x 15.7 inch high
<b>Instrument weight</b>	< 40 kg (88.2 lbs)
<b>Noise level</b>	< 70 dB
<b>Software</b>	Summit Software version 4.3 Microsoft® Office Professional Edition 2003
<b>Operating system</b>	Microsoft® Windows® XP Professional

For research use only.  
Not to be used in diagnostic procedures.

