



HIGH EFFICIENCY HEMATOLOGY
**ANALYTICAL PERFORMANCE
TO MEET YOUR NEEDS**

CELL-DYN Sapphire

HEMATOLOGY SYSTEM

Intended Use: The CELL-DYN Sapphire is a multi-parameter automated Hematology analyzer designed for *in vitro* use in clinical laboratories.

See Operator Manual for warnings, precautions, and limitations for proper use of the instrument.



Put science on your side.

 **Abbott**
A Promise for Life

HIGH EFFICIENCY HEMATOLOGY AND CELL-DYN Sapphire

The CELL-DYN Sapphire is a multi-parameter automated hematology analyzer designed for *in vitro* diagnostic use in counting and characterizing blood cells. Its design allows it to be easily integrated into a clinical laboratory of a hospital or medical clinic, a reference laboratory, or a research laboratory.

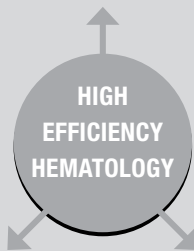
See the Operator's manual for warnings, precautions and limitations for proper use of the instrument.

Enabling the laboratory to use its resources more efficiently is key to managing increasing workloads. The CELL-DYN Sapphire is a component of Abbott's High Efficiency Hematology program. When combined with the Aim Pathfinder 350S, the CELL-DYN Sapphire helps to address the testing needs of laboratories without the need for a track system.



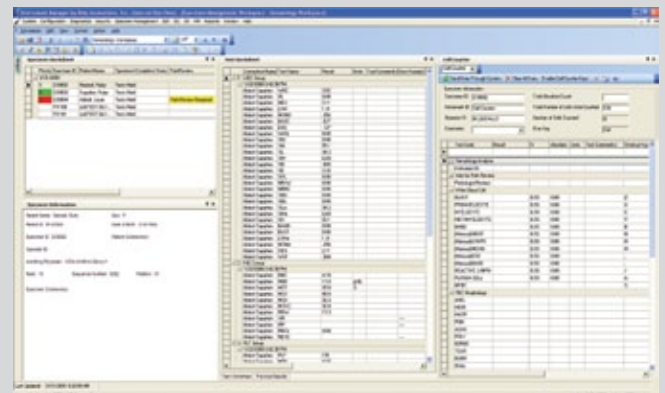
Analytical Performance

- Reducing manual processes
- Expanding efficiency with monoclonal antibody testing



AIM Pathfinder 350S – Flexible Automation

- Simplified sample handling with flexible configurations for both pre-analytical and post-analytical for reduced manual interventions



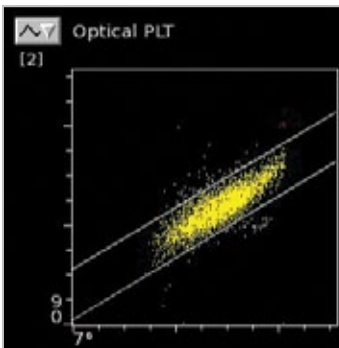
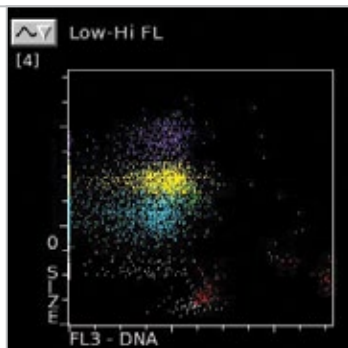
Instrument Manager

- Decision rules
- Autoverification

RESULT – EFFICIENCY

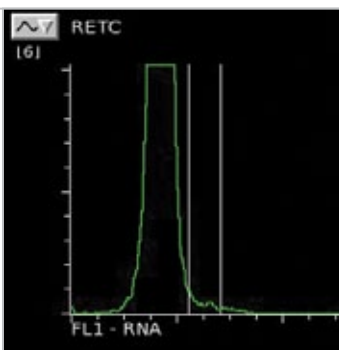
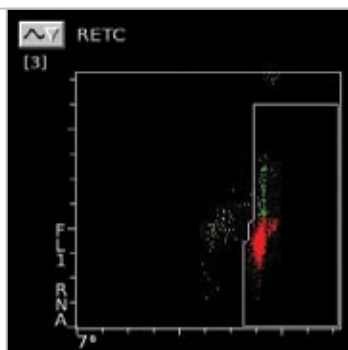
Analytical efficiency and quality results the first time the sample is run

**Full Time
Fluorescent NRBC
Quantitation**

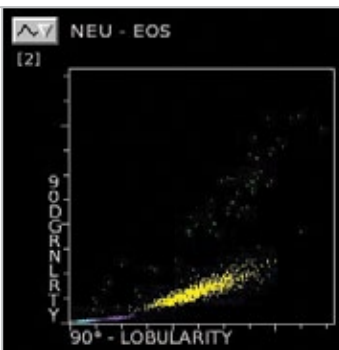
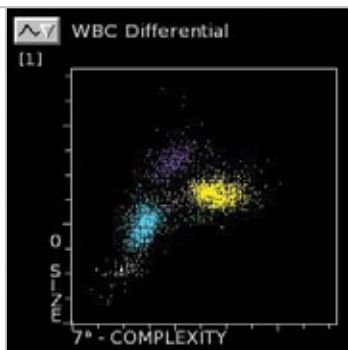


**Full Time Dual
Angle Optical
Platelets**

**Random Access
Fluorescent
Reticulocyte Analysis**



**Four Dimensional
WBC Analysis**



▶ MAPSS with 3 Color Fluorescence

- ALL: Cell size
- IAS: Complexity
- PSS: Lobularity
- DSS: Granularity
- Single dilution and simultaneous counting of White Blood Cells and 5 part differential
- Reportable Nucleated Red Blood Cell counts
- Dual angle optical platelet counts are provided full time without the need to reflex or repeat the sample in a different test mode

▶ Fluorescence Characteristics

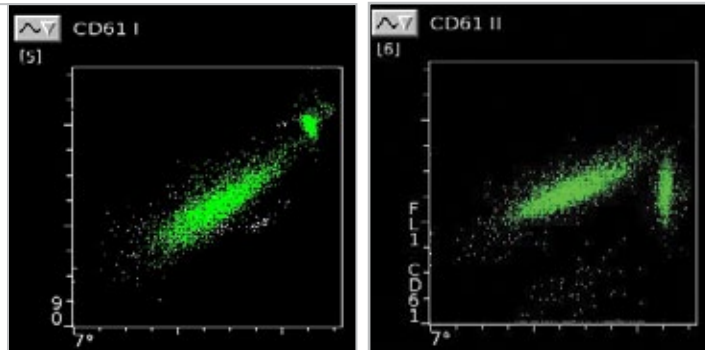
- Reticulocyte analysis
- Monoclonal applications
- NRBC counting
- OpenFlow: 3rd party Monoclonal assays

See Operator Manual for warnings, precautions, and limitations for proper use of the instrument.

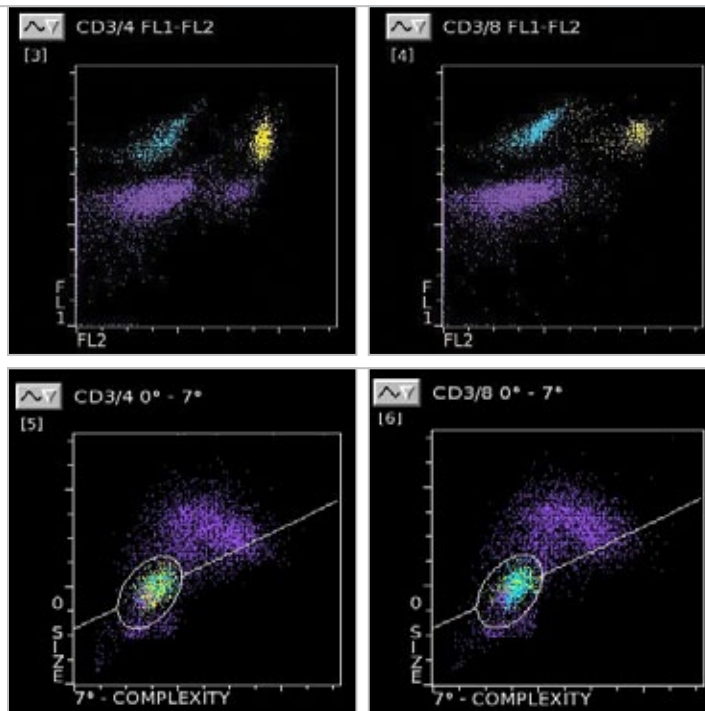
TESTING – EFFICIENCY

Expanding your laboratory's efficiency with specialty testing

CD61 Results in Less than 5 Minutes



CD3/4/8 Results in Less than 8 Minutes



▶ **Fully Automated Monoclonal Antibody Analysis**

▶ **OpenFlow Capability for 3rd Party Monoclonal Assay Applications**

Immuno PLT (CD61) Assay: A fully automated, immunology based method for counting platelets

- Accurate and precise at low platelet concentrations
- Unaffected by the presence of WBC or RBC fragments
- Expanded RBC parameter information now provided on Laboratory page

Immuno T-Cell (CD3/4/8): A fully automated, immunology based method

- This assay, which uses monoclonal antibodies, is accurate and precise across a wide range of T-cell concentrations

OPERATIONAL – EFFICIENCY

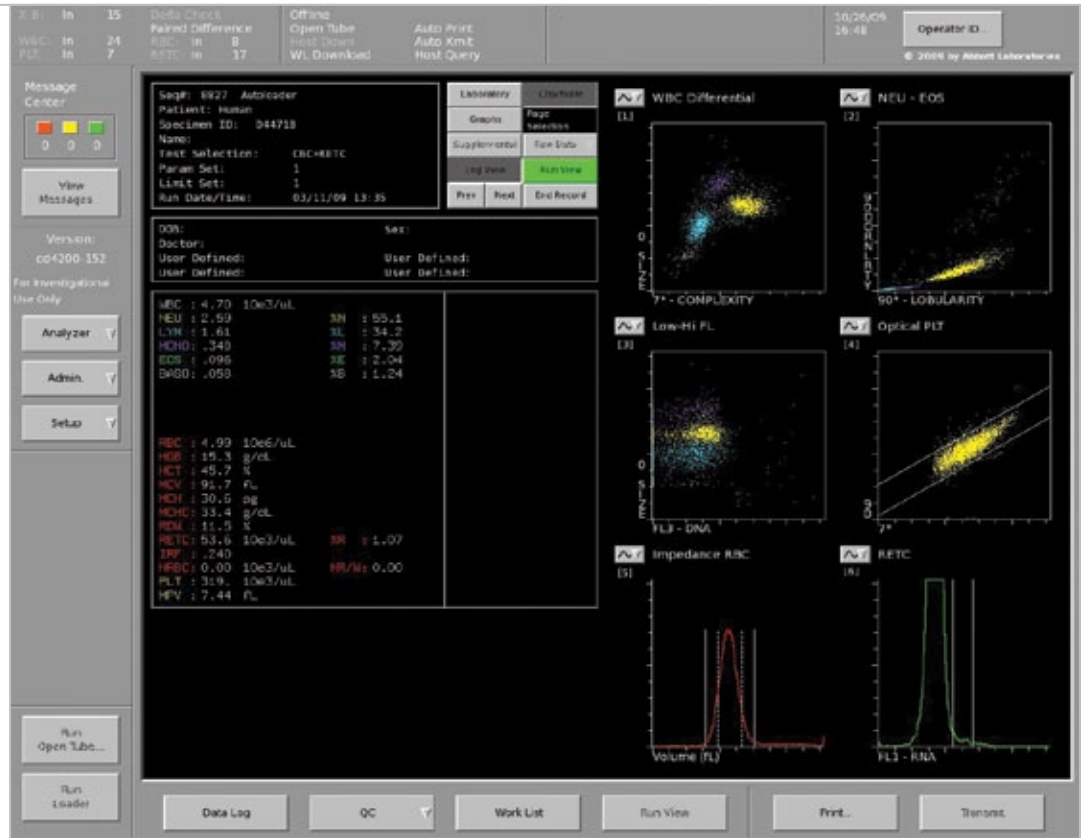
Key functions are easy to use and access

Easy to use software

- Moving average programs
- 25 customizable Quality Control files
- Result grouping capability
- Multiple Scatterplots
- Main menu functions are conveniently available all the time

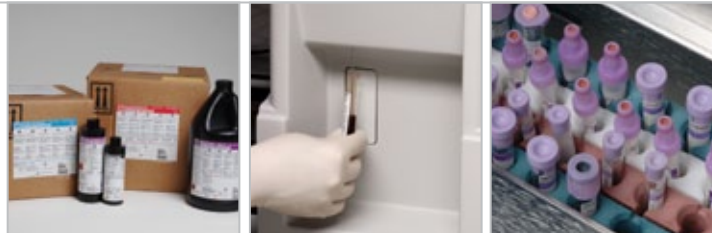
Now with 20" wide screen monitor

Smaller data station



Easier reagent management

- Only 5 reagents for a CBC



Easy sample processing

- Common fluidic pathway
- Single calibration
- Open or closed tube sampling
- Multiple tube types accepted

Networked Solutions for Efficiency and Instrument Uptime



AbbottLink maximizes instrument uptime providing real-time troubleshooting, remote transfer of instrument logs and system monitoring.

CELL-DYN eQC

An offline, web based QC Peer Reporting combines efficiency, flexibility and ease of use.



HIGH EFFICIENCY HEMATOLOGY AND CELL-DYN Sapphire

PRODUCT INFORMATION

MAXIMUM THROUGHPUT (AUTOLOADER MODE)	CBC: 105 per hour CBC + RETC: 69 per hour
SAMPLE VOLUME	Open Mode 120 µL, Sample Loader 120 µL
REAGENTS	Only 5 reagents including reticulocytes
TECHNOLOGY	
WBC AND DIFFERENTIAL	4 angle optical MAPSS plus 3-color fluorescent flow cytometry, Multiple Scatterplot Analysis
NRBC's	4 angle optical MAPSS plus red fluorescence No extra reagent, no reflex testing requirement Multiple Scatterplot Analysis
PLATELETS	Dual angle optical analysis, no extra reagent, no reflex testing requirement
RETICULOCYTES	Patented RNA fluorescent flow cytometry, random and continuous access
MONOCLONAL	Immuno T-Cell (CD3/4/8) reagent ImmunoPit (CD61) assay
DISPLAY RANGE	
WBC	0.0–250.0 x 10 ³ /µL (No interference of HGB)
RBC	0.0–7.50 x 10 ⁶ /µL
HGB	1.0–25.0 g/dL (Cyanide free)
MCV	37.0–179 fL
PLTo	0.0–2000.0 x 10 ³ /µL
RETC	0.0–1500.0 x 10 ³ /µL
Data Management	Linux operating system, 10,000 specimen storage with graphics, 25 QC files each with 120 data points. Levey-Jennings graphs. Moving Average programs. Westgard rules. Delta Check. Paired difference. Auto Calibration. Upload/Download of QC data. Ruled based auto validation. Transfer of scatterplots. Multiple printer options.

See Operator Manual for warnings, precautions, and limitations for proper use of the instrument.

CELL-DYN Sapphire is a Class I laser product.

PathFinder 350S is a trademark of Aim Lab Pty, Ltd.

Instrument Manager by Data Innovations, Inc.

CELL-DYN, CELL-DYN Sapphire, MAPSS, AbbottLink and *Put science on your side.* are trademarks of Abbott Laboratories in various jurisdictions.

www.abbottdiagnostics.com
1-877-4ABBOTT

© 2010, 2011 Abbott Laboratories HM_10_1475/v3. Printed in USA, 11/2011-1.

 **Abbott**
Diagnostics