



See Brilliant Results without all the reviews.





First Pass Efficiency.™ Getting it right the first time.

GOALS:

More reportable WBC and WBC differential results on the first run, even when abnormal cells and interfering substances are present:

- MAPSS[™] (Multi-Angle Polarized Scatter Separation) technology provides laser-accurate optical readings for WBCs with differential.
- Accurate identification using 4-angle scatter measurements.
- Use of multiple scatterplot analysis for identification of abnormal cells and interfering substances.

First pass optical platelets. Right the first time.

 The CELL-DYN Ruby[™] 2-angle optical platelet count accurately enumerates and sizes to help ensure first pass reportable results. Reduces reflex testing due to interference from microcytic RBCs, RBC fragments, WBC fragments and non-platelet particles.

Three dimensional optical RBC count.

- Improved RBC count accuracy.
- Clinically useful RBC parameters.

Flexible, easy-to-use software.

- Features customizable views.
- Easily performs non-routine tasks.

Only three reagents for complete CBC with 5-part WBC differential analysis.

- WBC lyse
- HGB lyse
- Diluent/sheath



A shining example of advanced technology.

Abbott Hematology. The First with First Pass Efficiency.™

Highly discriminate, sequential separation using MAPSS™ technology.

90° Lobularity

10° Complexity

0° Size

Four degrees of separation in a flash

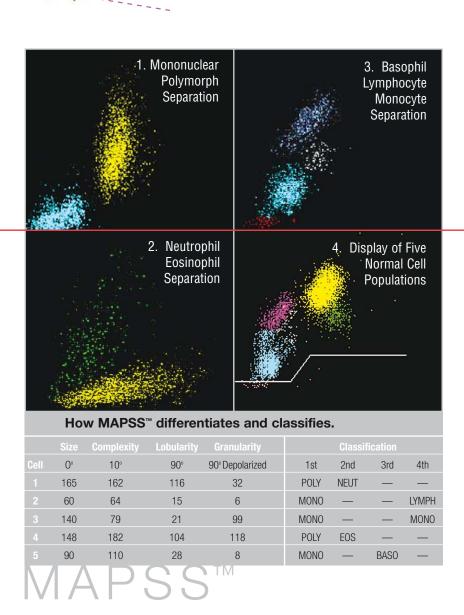
MAPSS Laser Technology.

A higher level of interrogation.

- Analysis performed on up to 10,000 cells from a single dilution, using a single reagent.
- Captures up to 40,000 data points.

MAPSS results are displayed in elegant, multiple, color-coded scatterplots.

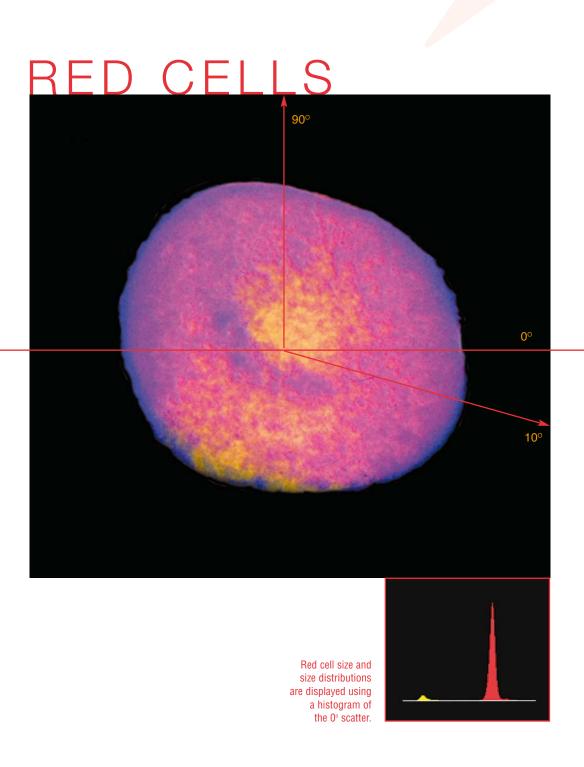
- Discriminates between neutrophils, eosinophils, basophils, monocytes and lymphocytes.
- Identifies and classifies immature cells and interfering substances.



Three-dimensional, Optical Red Blood Cell Analysis.

Improves the accuracy of red cell measurements, including retics, with 3-D analysis.

- Comprehensive cell-by-cell measurements with readings taken at 0°, 10°, and 90° for exquisite accuracy.
- Retics analyzed via 0°, 10°, and 90° scatter.
- Retic assay based upon NCCLS/ICSH methods.



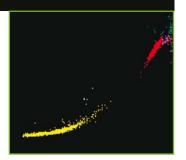
Two-dimensional, Optical Platelet Analysis.

More reportable platelet counts across a wide variety of abnormal conditions.

- Two-angle analysis separates the platelet and RBC populations.
- Reduced interference from microcytic RBCs, schistocytes, RBC fragments, or non-platelet particles.
- More reportable results are obtained:
 - -without reflexing or extra reagents,
 - —in presence of giant or clumped platelets using 2-D separation,
 - -on thrombocytopenic samples, and
 - —without dilution, on samples with thrombocytosis.

PLATELETS

First Pass Optical Platelet Count:
Platelets and RBCs are accurately sized
and counted by multidimensional laser
light scatter. Whole blood is diluted
into a proprietary reagent system that
optimizes the separation of Platelets and
RBCs reducing interference by microcytic
red cells and non-platelet particles.

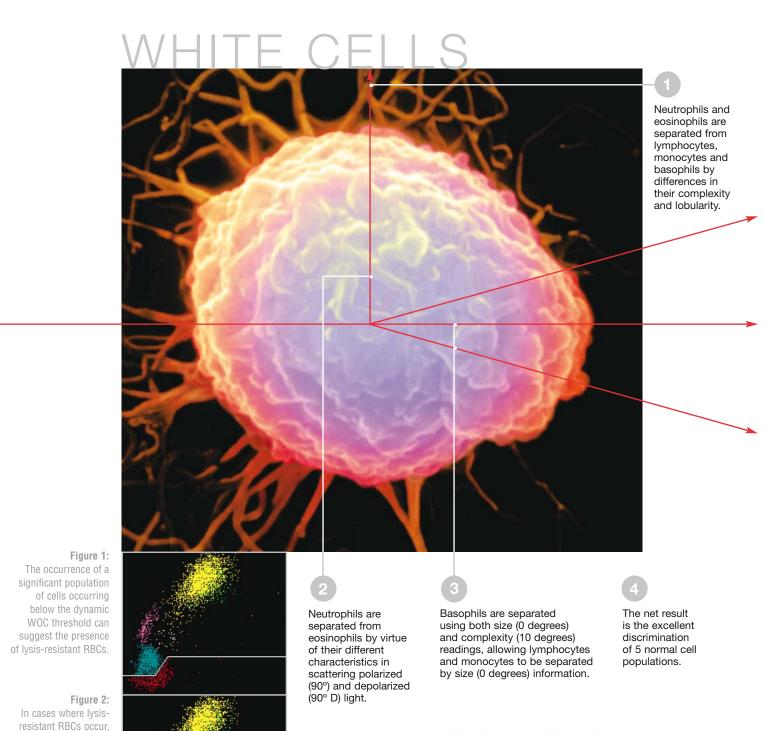


Four-dimensional, WBC Analysis.

White cells are counted and studied so that results can be reported on the first run, even when abnormal cells and interfering substances are present.

 Reduced manual reviews due to interference from NRBCs, clumped platelets and debris.

(typically in neonates and patients with hemoglobinopathies, thalassaemia or liver disease) the sample is re-run in the resistant RBC mode. MAPSS technology can detect potential interference from lysis-resistant red cells.
 These samples can be re-run in the lysis-resistant mode without microscopic review (See Figures 1 & 2).



* In Development

Product not available in the U.S.

Multi-faceted software offers touch-screen convenience and maximum flexibility.



Easy for everyone.

- Screens are straightforward, intuitive, and easy to navigate.
- The software offers customizable views (Based on SQL Data Base).
- Handy tool tips help optimize operator's experience.
- · Automatic monitoring of reagent status.

Even non-routine tasks are easy to perform and user-friendly:

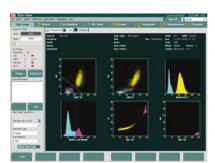
- Calibration functions
- Help menus
- Help videos

Configured for Security.

User sign-in is password-protected with multiple security levels.

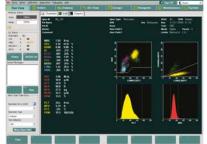
QC Files.

Users can store up to 500 quality control files.



Run View-Chartable Information

WBC, RBC, and Plt information for Patient and Quality Control results are clearly displayed using color-coding. Flagged specimens are easily identified. Operators may select up to 9 different scatter gram views at the click of a button.



Run View-Lab Information Only

In Lab View you can see additional parameters for internal lab use. For the differential they include BAND, IG, BLST (Blast), VARL (Variant Lymph) absolute and percentage values. Additional hematology parameters are the PCT and PDW.



Data Log

Patient and Quality Control information is stored for up to 10,000 results. Information is quickly and easily retrieved with user-friendly search menus.



QCID

In QC VIEW you can toggle from Levey-Jennings® Plots to Data Summaries through the lower left function key labeled QCID DATA and QCID L-J Plots.



All maintenance information is easily monitored on a single screen. An on-line Operator's Manual and Help Videos are always available to assist in performing maintenance functions.

Simply. Brilliant. Technology.



PRODUCT GOALS

| THROUGHPUT | CBC + Differential up to 76 per hour |
|---|--|
| SAMPLE VOLUME Open Mode 150 μ L, Sample Loader 250 μ L | |
| REAGENTS | Only 4 reagents including reticulocytes |
| TECHNOLOGY | |
| WBC AND DIFFERENTIAL | 4 angle optical MAPSS™ Multiple Scatterplot Analysis |
| PLATELETS | Dual angle optical analysis, no extra reagent, no reflex testing requirement |
| RETICULOCYTES | New Methylene Blue NCCLS/ICSH methods, supravital staining technique |

Data Management

- Microsoft Windows® based Operating System
- Touch Screen Monitor
- Full on-board QC
- Summary statistics and Levey-Jennings® plots
- Moving averages (including WBC differential)
- Westgard rules
- 10,000 results stored with graphics
- Work list capability
- Programmable patient and report limits
- Complete patient demographics
- Bar code reading: Code 39, Codabar, Code 128, Interleaved 2 of 5, ISBT
- Auto-calibration on-line guide
- On-board diagnostics and Help Videos

Operating Environment Temperature

• 15°C (59°F) to 30°C (86°F)

Humidity

• ≤80% relative humidity, non-condensing Indoor Use

Standards & Safety Compliance

UL CSA IEC 1010 CE Mark

Ordering Information

08H67-01 CELL-DYN Ruby™ Analyzer 09H04-01 Accessory Kit 05H00-01 17" Touch Screen Monitor 08H14-01 Membrane Keyboard

Reportable Parameter Goals

| WHITE CELLS | RED CELLS | PLATELETS | RETICULOCYTES |
|--|---|------------|------------------|
| NOC WOC NEU %N LYM %L MONO %M EOS %E BASO %B | RBC HGB HCT MCV MCH MCHC RDW Retic %R | PLT MPV | RETIC# RETIC% |

Electrical Requirements

| MODULE | VOLTAGE | FREQUENCY | MAXIMUM CURRENT | MAXIMUM POWER CONSUMPTION |
|----------|-------------|------------------|--------------------|---------------------------|
| Analyzer | 100-240 VAC | $50/60 \pm 3$ Hz | 0.5-2.2 amps | 550 watts |
| Display | 100-240 VAC | $50/60 \pm 3$ Hz | 0.7 amps | 50 watts |

System Measurements

| MODULE | HEIGHT | WIDTH | DEPTH | WEIGHT |
|----------|--|-----------------------|------------------------|--------------------------|
| Analyzer | 49.9 cm (19.25 in.) | 86.4 cm (34.0 in.) | 76.8 cm (30.25 in.) | 105.2 kg (232.0 lbs.) |
| Printer | Refer to the printer manufacturer's specifications | | | |

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^{*} In Development Product not available in the U.S.