MC-80
Automated Digital Cell Morphology Analyzer
Technical Specifications

Analysis mode
WBC, RBC+PLT, PLT-Pro, Digital Slide
Different combinations of analysis mode could be triggered according to the results of hematology analyzer.

Throughput
Peripheral blood: up to 60 Slides/hour (100WBC+RBC+PLT)
* Values provided are approximate due to WBC concentration, number of non-WBCs and quality of the smear.

Oiling Method
Automatic oil dripping

Slide Storage Capacity
Up to 60 completed slides at the same time

Quality Control
Cell location accuracy test for the verification of the hardware and stain quality

Communication
Bi-directional LIS
Ethernet 10/100/1000 Mbps

Supported Printers
Laser/inkjet printers supported by Windows

System Components
labXpert software
Computer with operating system of Windows 10 or above

Data Storage Capacity
Up to 80,000 samples
Support data and cell images archiving of peripheral blood slides

Operating Environment
Ambient temperature: 15℃~32℃
Relative humidity: 30%~85%
Atmospheric pressure：70.0kPa ～ 106.0kPa（Altitude height: -400 m to +3000 m）

Power Supply
Voltage：100 V–240 V (allowable deviation:±10%)
Frequency：50Hz/60Hz (allowable deviation: ±2Hz)
Power：300VA

Dimensions and Weight
Analyzer dimensions
Width×Depth×Height ≤ 600mm×570mm× 700mm
Analyzer weight ≤100 kg

Diverse configurations to meet all kinds of demands

CAL 6000

Width×Depth×Height : 2970×1030× 810 (mm)

CAL 8000

Width×Depth×Height : 5360×1030× 1470 (mm)

mindray
healthcare within reach

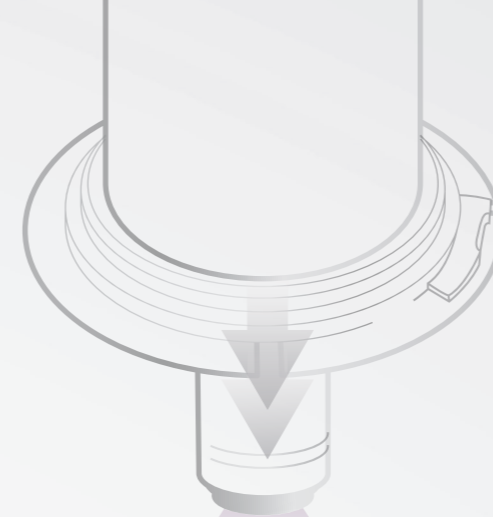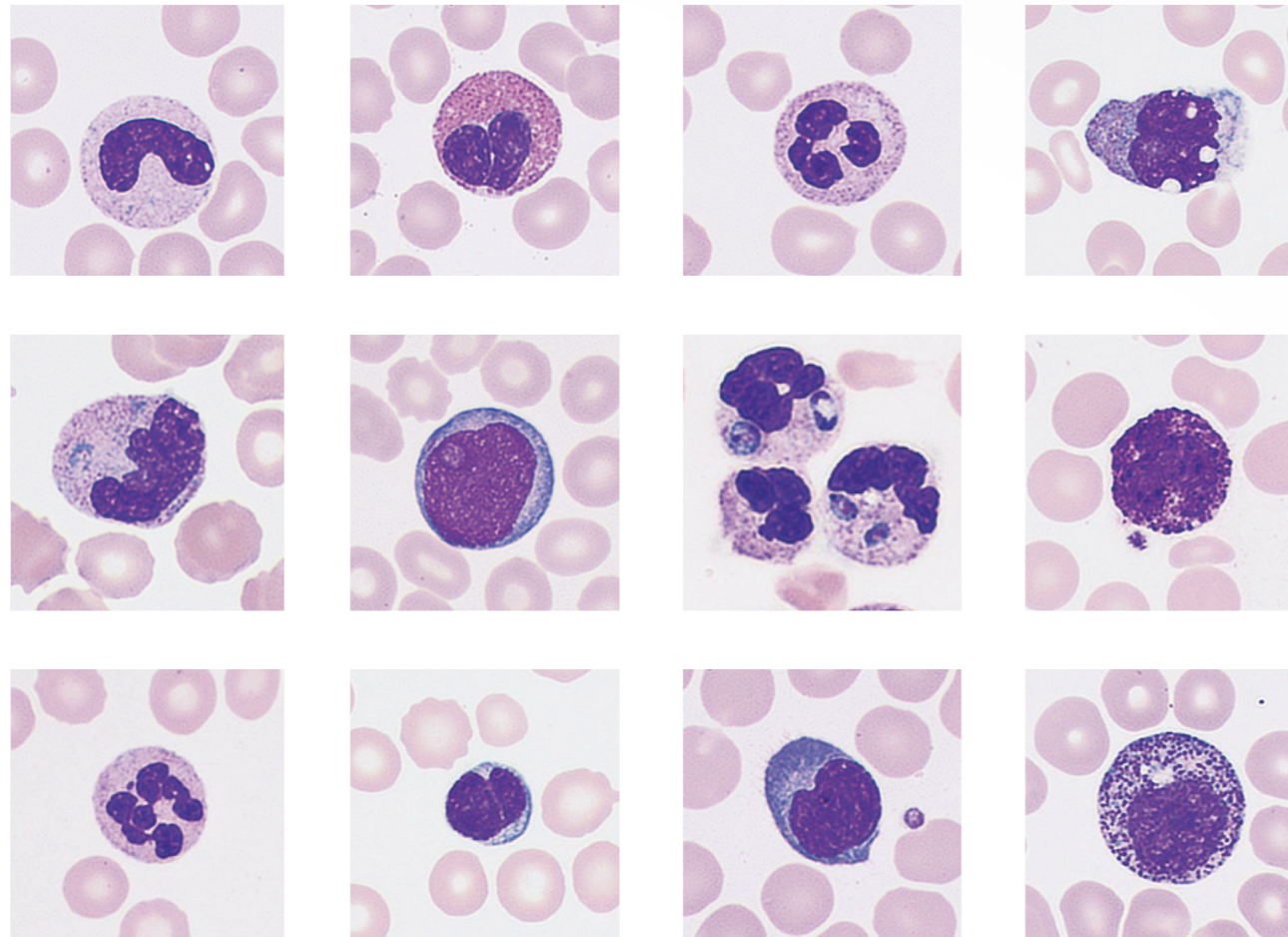# More Clarity. More Intelligence. More Productivity.

MC-80

Automated Digital Cell Morphology Analyzer

More Clarity

Display the ultra clarity and authenticity of each cell

The high-performance objective lens and advanced image sensor offer ultra resolution images to reappear the real view under the microscope.

Capture comprehensive pathological features of each cell

Multi-layer fusion technology

Simulates manual focus adjustment and accurately restores the pathological features of cells, which is helpful for early screening of blood diseases (such as acute promyelocytic leukemia) and infectious diseases.

High-speed continuous capturing

Fuses all images to capture concise pathological features
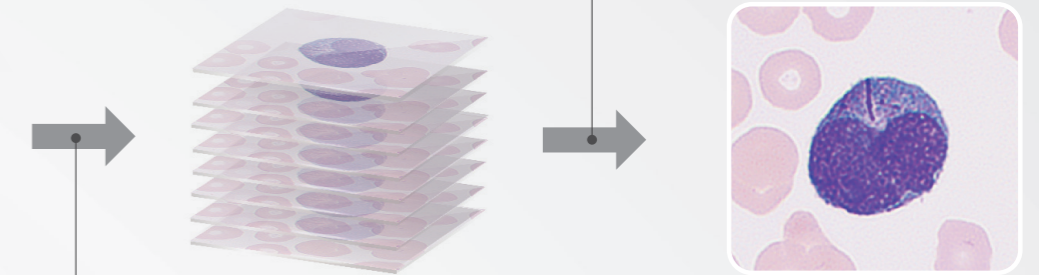
Capture all details with more than **20** depths of field

More Intelligence

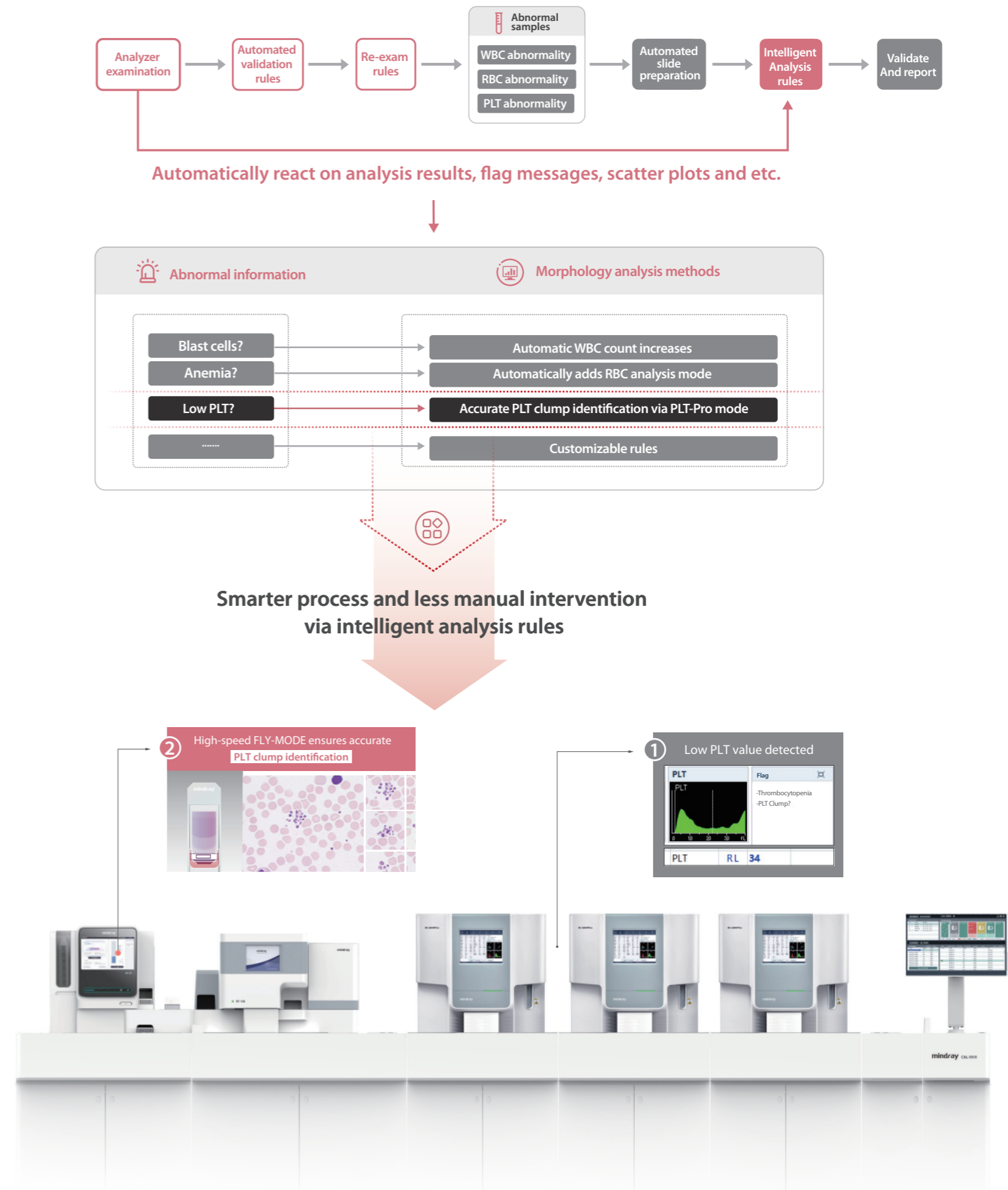## Reliable cell pre-classification and pre-characterization

— Accurately pre-classifies white blood cells, especially abnormal cells, such as blast cells, reactive lymphocytes, etc.

— Pre-characterized RBC morphology can be modified with one click.

— PLT counting assistance

High-speed FLY-MODE ensures the accurate
PLT clump identification

Intelligent analysis rules facilitate a smart process and less manual intervention

Analyzer examination → Automated validation rules → Re-exam rules → Abnormal samples [WBC abnormality / RBC abnormality / PLT abnormality] → Automated slide preparation → Intelligent Analysis rules → Validate And report

Automatically react on analysis results, flag messages, scatter plots and etc.

Abnormal information — Morphology analysis methods

Blast cells?	Automatic WBC count increases
Anemia?	Automatically adds RBC analysis mode
Low PLT?	Accurate PLT clump identification via PLT-Pro mode
………	Customizable rules

Smarter process and less manual intervention via intelligent analysis rules

② High-speed FLY-MODE ensures accurate PLT clump identification

① Low PLT value detected
-Thrombocytopenia
-PLT Clump?
PLT   RL 34

More Productivity

60 Slides/hour
Industry-leading high throughput

SOLID ROCK Hyper-stable anti-shake **system:** Aerospace materials and cutting-edge high-frequency exposure algorithm are integrated to eliminate blurred images.

Remote review and consultation in multiple locations

Remote validation and consultation

Satellite Lab - Ⓐ

Core Lab

Satellite Lab - Ⓑ

Satellite Lab - Ⓒ

Automatically receives prepared smears

Easily search and take slides with one click

User-friendly and intuitive workflow

High-end touch screen for Intuitive interactions

STAT function for urgent cases