

INSTRUMENT INTRODUCTION

Detection Technology	Nucleic Acid Fluorescence Staining & Flow Cytometry to count WBC、NRBC and 6-part impedance method and flowcytometry for RBC/PLT
Detection mode	CBC、DIFF、NRBC、RET、PLTF、AWS、SR
Sample mode	Whole Blood Mode, Low Value Leukocyte Mode, Predilution Mode, and Sample Research Mode
Sample volume	Whole blood mode: 88ul Predilution mode: 70ul
Throughput	CBC+DIFF: 100T/H CBC+DIFF+RET: 83T/H CBC+DIFF+RET+PLTF: 47T/H CBC+DIFF+RET+AWS: 71T/H CBC+DIFF+RET+PLTF+AWS: 47T/H
Reporting parameters (37 in total)	Leukocyte: WBC、NEUT(#,%)、LYMPH(#,%)、MONO(#,%)、EO(#,%)、BASO(#,%)、IG(#,%) Erythrocyte: RBC、HGB、HCT、MCV、MCH、MCHC、RDW-SD、RDW-CV、NRBC(#,%) Platelets: PLT、PDW、MPV、P-LCR、P-LCC、PCT、IPF Reticulocytes: RET(#,%)、IRF、LFR、MFR、HFR、RET-He
Auto loader	Up to 50 sample position
Linear range	WBC: 0~500x10 ⁹ /L RBC: 0 ~ 8.60 × 10 ¹² /L HGB: 0 ~ 260g/L PLT: 0~5000x10 ⁹ /L

PRECISION

Parameter	Detection Range	Precision/%
WBC	≥3.50 × 10 ⁹ /L	≤2.5
RBC	≥3.50 × 10 ¹² /L	≤2.5
HGB	110g/L ~ 180g/L	≤1.0
PLT	≥100 × 10 ⁹ /L	≤4.0
HCT or MCV	30% ~ 50% (HCT) or 80fL ~ 100fL (MCV)	≤1.5 (HCT)

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WEBSITE

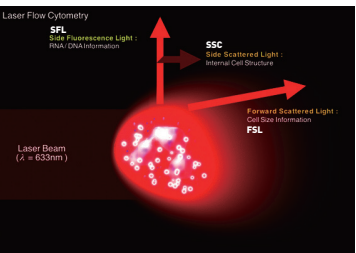
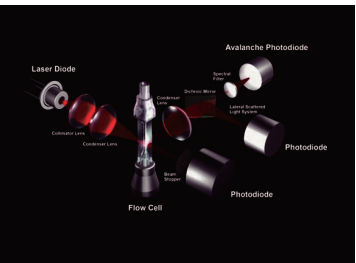

WECHAT





Principal

3rdgeneration Tech
Fluorescence staining to Nucleic Acid

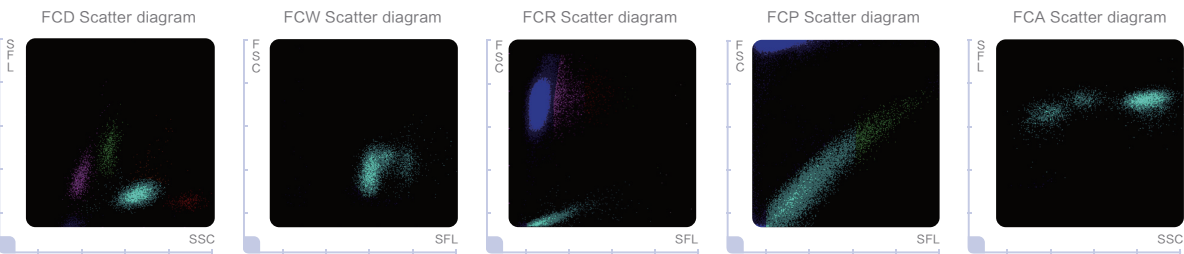


Special fluorescent staining solution will dye DNA or RNA blandly while 2nd Generation chemistry staining reagents will dye Enzymes/particles in cytoplasm. we know that different cell has different concentration of DNA or RNA , which cause the depth of dying is different. the more DNA or RNA , the stronger fluoresent signal. Since the nucleic acid is the most specific part of cell, so the 3rd Generation is more sensitive to distinguish different leukocyte, especially the abnormal cells

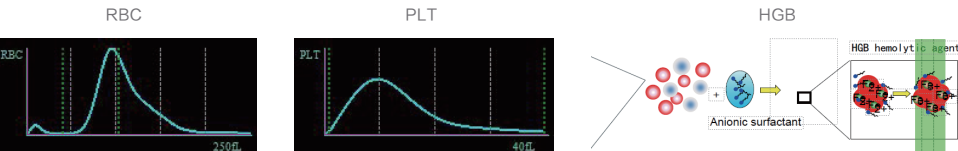
Combine 3rd Generation technology with flow cytometry, A single-cell stream quickly passes through a channel in the middle, and every passing cell is detected by three beams of light from three directions to get size, granularity and nucleic acid information

FSL (Forward Scattered Light) mainly reflects the size of the cells,
SSC (Side Scattered Light) mainly reflects size and number of particle in cells
SFL (Side Fluorescence Light) mainly reflects the concentration of nucleic acid

Multiple channels



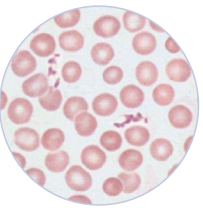
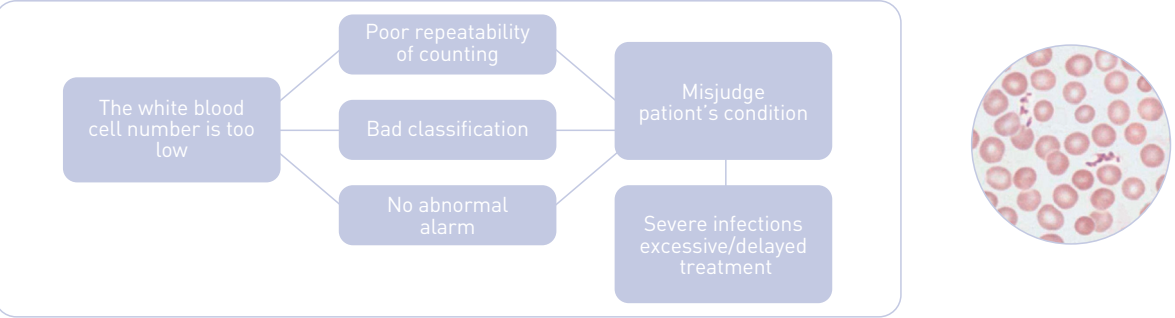
In FCW channel, WBC, Baso, and NRBCs results will be provided. Baso and NRBCs are generated without extra reagent or cost
In FCD channel, F880 analyzer not only gives WBC 6-part differential results (with immature granulocyte),but also brings 35 research parameters
In FCR channel, 6 reticulocyte results and PLT counting (PLT-0) will be provided. PLT-0 can improve the accuracy of low platelet counting
In FCP channel, Immature platelet fraction results will be provided
In FCA channel, F880 analyzer could recheck and confirm DIFF channel abnormal cell and Distinguish abnormal myeloid and gonorrhea cells



The flow cytometry technology was used on RBC/PLT chamber which not only make more accurate RBC/PLT results but also ensure very low clog rate

LW mode

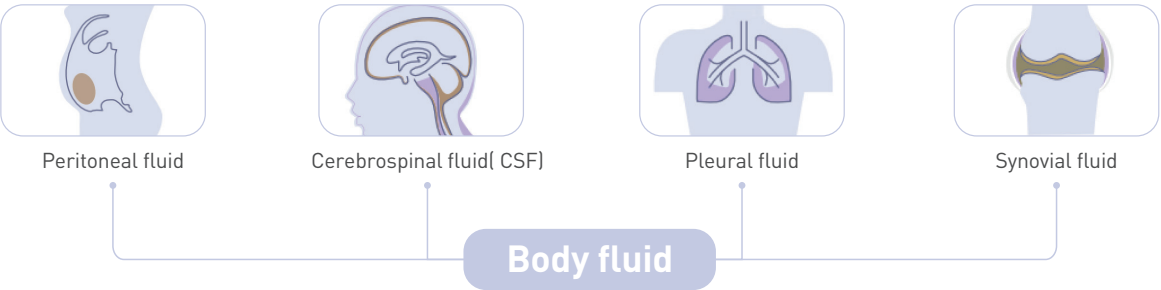
Low White Blood Cell



Resampling, changing channels, increasing the count by 3 times

The increase of counting particles not only makes the detection of low value have better precision, but also enables the classification of white blood cells in low value samples and the sensitive capture of juvenile cells in them, so as to avoid unnecessary risks

SR mode



Besides blood specimen, F880 also has body fluid test function without requiring dedicated reagent. The various types of body fluids include Peritoneal fluid, Pleural fluid, Cerebrospinal fluid(CSF)and Synovial fluid



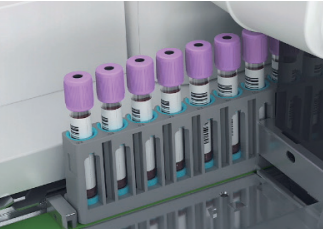
Single prototype



Vertical (cabinet) assembly line

Test options:

Sample: WB、 Capillary blood、 Pre-dilute blood、 Body fluid



Efficient

Up to 100T/H (CBC+DIFF)
Up to 83T/H (CBC+RET)
Up to 83T/H (CBC+DIFF+RET)
Up to 17T/H (SR)



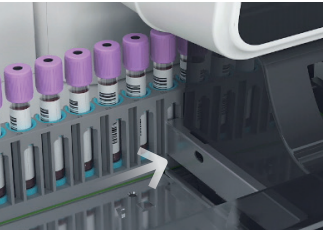
Visual reagent management

Built-in reagent position for dye
Special loading design: Better separation and much safer



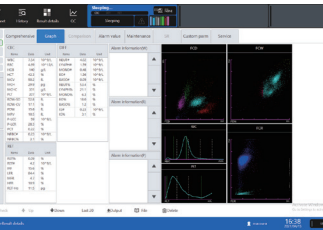
Auto loader

50 position
Built-in barcode for sample tube
Automatically rotate and adjust the barcode position for identification



Automatic rerun and reflect

Return the sample racks for an automatic rerun or reflex check.
Comparative analysis of multiple outcomes in the same patient



Easy-to-use software

User-defined interface
Intuitive interface