



# DYMIND DH33 Auto Hematology Analyzer

KEMENKES RI AKD 20205320301

**Reliable Features. Maximum Capacity.**

A 3 diff. hematology analyzer made domestically at the top production facilities of PT Prodia Diagnostic Line - Indonesia. It is equipped with a two-way LIS connection, a storage capacity of up to 50,000 sample results and a maintenance-free suction needle.



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Internal Cabinets for Lysis Solutions



26.4 cm TFT Touch Screen



Thermal Printing System



## Easy-to-operate instrument with reliable results.

DYMIND DH33 Auto Hematology Analyzer is produced locally by PROLINE (part of the Prodia Group company engaged in the IVD medical device industry). This hematology instrument is manufactured under strict quality standards under license from Shenzhen Dymind Biotechnology Co., Ltd. and has met the requirements of GMPMD (Good Manufacturing Practices for Medical Devices).

DYMIND DH33 Auto Hematology Analyzer provides technology features for reading 3 types of white blood cells: granulocytes, monocytes and lymphocytes as well as counting red blood cells and platelets. This compact size hematology instrument is suitable for small to medium scale laboratories.

### Manufactured by: PT Prodia Diagnostic Line

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### Under the license of: Shenzhen Dymind Biotechnology Co., Ltd.

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# Technical Specification

## DYMIND DH33 Auto Hematology Analyzer

Throughput	60 samples/hour.
Detection channel	Dual-channel for counting.
Leading technology	Pulse baseline tracking technology, waveform discrimination technology and intelligent floating threshold technology.
Detection principle	Impedance method (WBC/RBC/PLT) and cyanide free colorimetric method (HGB).
Detection systems	The detection items include 21 parameters: report parameters (WBC, Lym#, Mid#, Gran#, Lym%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, and P-LCC), 3 histograms, alarm for abnormal erythrocytes, leukocyte and platelet.
Sample volume	Minimum volume 9 µL
Counting modes	Venous whole blood, capillary whole blood and pre-diluted.
User interface	Graphics are displayed on a 26.4 cm TFT touch screen, equipped with a thermal printer with an additional printer connection and printout templates.
Storage capacity	50,000 sample results, including parameter, histogram and patient information.
Input/Output	4 USB ports and Bi-directional LIS connection.
Operating environment	Temperature 10°C to 30°C; relative humidity ≤ 85%.
Power requirement	AC 100 –240 V, 60/50 Hz.
Dimension	36,4 cm (P) x 41,7 cm (L) x 47,7 cm (T).
Weight	≤ 25 kg.

### Carryover Performance

Parameter	Carryover	Parameter	Carryover
WBC	≤0,5 %	PLT	≤1,0 %
RBC	≤0,5 %	HCT	≤0,5 %
HGB	≤0,5 %		

### Display Range & Normal Background Performance

Parameter	Linearity Range	Display Range	Normal Background
WBC	(0 – 300)×10 <sup>9</sup> /L	0 – 999×10 <sup>9</sup> /L	≤0,2×10 <sup>9</sup> /L
RBC	(0,00 – 8,50)×10 <sup>12</sup> /L	0 – 18,00×10 <sup>9</sup> /L	≤0,02×10 <sup>12</sup> /L
HGB	(0 – 250) g/L	0 – 300 g/L	≤1 g/L
PLT	(0 – 3.000)×10 <sup>9</sup> /L	0 – 5.000×10 <sup>9</sup> /L	≤5×10 <sup>9</sup> /L
HCT	(0 – 67) %	0 – 300 %	≤0,5 %

### Linearity Range Performance

Parameter	Linearity Range	Deviation Range
WBC	(0,00 – 100,00)×10 <sup>9</sup> /L (100,01 – 300,00)×10 <sup>9</sup> /L	±0,30×10 <sup>9</sup> /L or ±5 % ±10 %
RBC	(0,00 – 8,50)×10 <sup>12</sup> /L	±0,05×10 <sup>12</sup> /L or ±5 %
HGB	(0 – 250) g/L	±2 g/L or ±2 %
PLT	(0 – 1.000)×10 <sup>9</sup> /L** (1.001 – 3.000)×10 <sup>9</sup> /L**	±10×10 <sup>9</sup> /L or ±8 % ±12 %
HCT	(0 – 67) %	±2 % (HCT value) or ±3 % (deviation percentage)

\* Whole blood mode \*\* RBC≤7,0

### Repeatability Performance

Parameter	Condition	Repeatability (CV%/absolute deviation d*)
WBC	(7,0 – 15,0)×10 <sup>9</sup> /L (4,0 – 6,9)×10 <sup>9</sup> /L	≤2,0 % ≤3,5 %
RBC	(3,5 – 6,5)×10 <sup>12</sup> /L	≤1,5 %
HGB	(100 – 180) g/L	≤1,5 %
MCV	(70 – 110) fL	≤0,5 %
PLT	(100 – 149)×10 <sup>9</sup> /L (150 – 500)×10 <sup>9</sup> /L	≤5,0 % ≤4,0 %

These repeatability requirements apply only to the situation in which a qualified sample has been run for 11 times and the results of the 2<sup>nd</sup> to 11<sup>th</sup> runs are used to calculate the repeatabilities.

\* Absolute deviation d = analysis result – average of analysis results