

Technical Specifications*

Sample volume	Closed-, and Open-mode: 100 µl
Sample type	Human whole blood (K-EDTA anticoagulant)
Tube Identification	By means of the front panel keyboard (enter ID) By means of the barcode labels (manual and/or auto-sampler)
Sampling method	Ceramic shear valve with 3 separated primary loops
Measured parameters	CBC+5 DIFF mode (24 parameters): WBC,LYM,MON,NEU,EOS,BAS,LYM%,MON%,NEU%,EOS%,BAS%,RBC,HCT,MCV,RDW-CV, RDW-SD,HGB,MCH,MCHC,PLT,PCT,MPV,PDW-CV,PDW-SD CBC mode (12 parameters): WBC, RBC, HCT, MCV, RDW, HGB, MCH, MCHC, PLT, PCT, MPV, PDW
Throughput	60 tests/hour
Measurement method	Volumetric impedance change for WBC, RBC, PLT. Spectrophotometry for HGB Light scattering 4-diff measurement: LYM, MON, NEU, EOS Light scattering BASO measurement
Aperture diameter	WBC: 100 µm, RBC/PLT: 80 µm
Aperture length	WBC: 100 µm, RBC/PLT: 80 µm
HGB measurement	Light source : green LED with 540 nm wavelength. Detector: light to frequency converter
Optical measurement	Light source : semiconductor laser diode with 650 nm wavelength and 10mW (Class IIIB laser module if the protective housing is closed) Quartz flow cell with hydro-dynamic focusing Detector: fiber optic coupled PIN Si photodiodes Internal safety interlock
Auto-alignment system	Optional. Horizontal and vertical calibration of laser beam path Coarse calibration: with blood Fine calibration: with calibration material (Polystyrene micro particle or Polystyrene microsphere, 7µm)
Reagents	Diatro • Dil-DIFF (20 liter) Diatro • Lyse-5P (5 liter) Diatro • Diff-5P (5 liter) Diatro • Hypocleaner CC (100 ml) (Emergency cleaner)
Dilution ratios	WBC/BAS 1: 228 RBC/PLT 1: 32.000 4 DIFF 1: 250
Sheath fluid	Diluent
Control material	D-Check 3P, Manufacturer: R&D Systems
Quality Control	16- and 64-day Levey-Jennings charts, separate QC database (6 level).
Flagging	Pathological (diagnostic) flags. Lab limits (normal ranges). Reagents alert (3 measurement prealert-online reagent replacement) Instrument alerts, internal puffer for reagents
Calibration	Manual and SW supported automatic mode
Languages available	English menu and support for other languages
Software upgrade	Via USB
Data storage capacity	100.000 records including flags, scatter- and histograms
Data processing	VIA C7 1.8 GHz processor
Data store	Embedded XP
Display	800 x 600 color graphic LCD, portrait layout
External printing	Via USB port, any Windows compatible printer
External keyboard	Via PS/2 or USB
Bar-Code reader	Optional Manual bar-code reader via USB Built in Bar-Code in the Auto-sampler
Peripheral ports	USB (2.0) 4pc., Ethernet, PS/2
Power requirements	Power supply input: from 90-135Vac to 180-265Vac; 47Hz to 63Hz Power supply input current: <10A @ 115Vac; <5A @ 230Vac Power Consumption: maximum 350 VA and 15-35°C (59-98 F);
Operating temperature	Maximum relative humidity 80%



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Manufactured in
Hungary (Europe)

* Iris Healthcare reserves the right to change any of the specifications without prior notice.



iCount5

Innovative Solutions in Hematology



iCount5



iCount5 is one of the high-end models of iCount Hematology Analyzers range. The 'iCount5' offers an optimal solution for hospitals, clinics and practices, which require a high throughput 24 parameter analyzer with laser based optical measuring technology for precise and accurate 5-part differential results for human samples. Our Hematology analyzers bring the convenience and accuracy of the reference laboratory right into your practice, offering maximum value at low running costs.

High performance

- Complete 24-parameter CBC profile including the optical determination of the 5 part WBC differential count
- 60 samples per hour throughput (single runs or work order)
- Auto-sampler with integrated bar code reader available
- Diagnostic flagging system
- Intelligent software is used for determining the different white blood cell populations



Ease of use:

- Color touch-screen, allowing fast and efficient work and monitoring of the results with large histograms and scattergrams
- Sophisticated operating menu, the instrument features an easy-to-use, logically constructed multilingual operating menu. It provides 6-level QC, L-J graphs and self-diagnostic functions to let you monitor reliability and accuracy
- Integrated PC enabling easy connection to any (LIS) system or printer
- Reporting on any Windows compatible printer

Reliable and efficient:

- The optical measurement technology utilizes laser diode ensuring a long lifetime and precise results with the special, high-tech flow cuvette
- iCount5 requires minimal maintenance, resulting in minimal disruption of operation
- iCount analyzers are kept small and light. Their compact size makes the instruments ideal for use in small to medium sized clinics requiring minimum desktop space
- Precise and reliable 5-part hematology profiles are guaranteed even in the most demanding clinical environment by utilizing industry standard electronic and mechanic components

