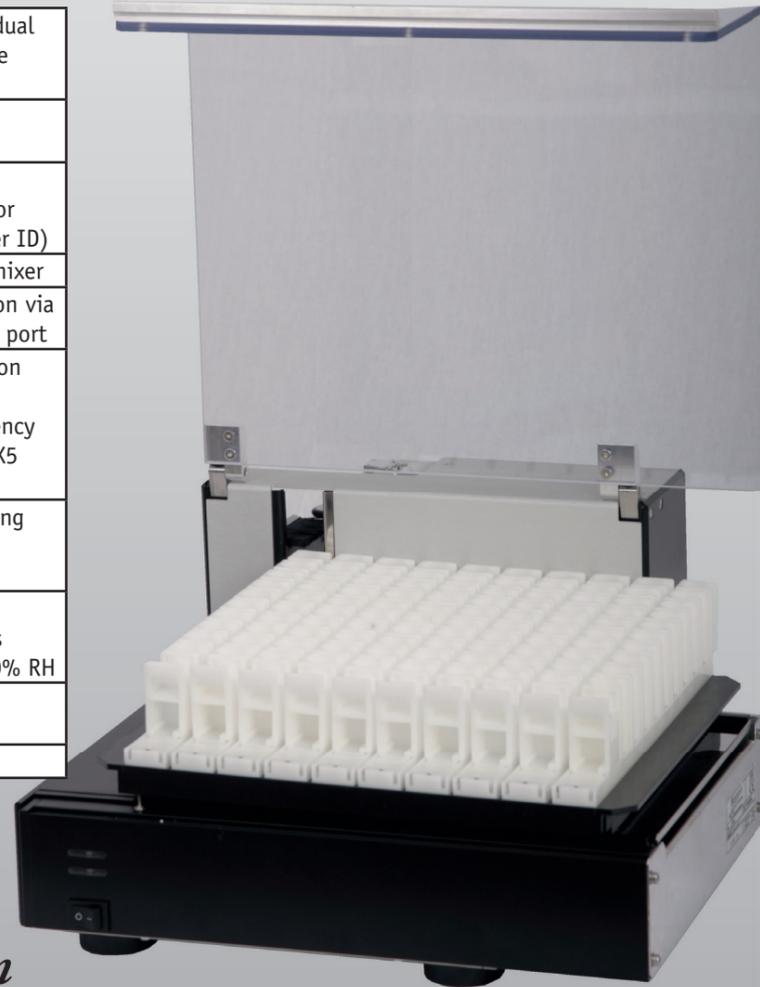


Optional Autosampler for Convergys® X5 with integrated Barcode scanner and Mixer

Specifications

Sample capacity:	100 samples (10 individual racks for 10 x 10 sample tubes)
Autosampler throughput:	65 tests / hour
Tube Identification:	Via integrated barcode scanner, via on-screen or external keyboard (enter ID)
Sample preparation:	Via integrated sample mixer
Connection:	Plug and play connection via electronic connection port
Emergency sample:	Emergency break function allowing the manual measurement of emergency samples via Convergys X5 sample rotor
Programming and Sampling:	Easy-to-use, programming and sampling menu via Convergys X5 interface
Operating conditions:	15°-30° C, 59-86° F (Optimal temperature is 25 °C, 77 °F), 20%~ 80% RH
Dimensions:	(W x D x H) ca. 400x 300 x 210 mm
Net weight:	ca. 12 kg



Ordering Information

REF	Article Name	Description
1100-1700	Convergys® X5 Main Unit	Fully automatic 5-part WBC differential Hematology Analyzer
1100-1710	Convergys® X5 Autosampler	Autosampler for Convergys® X5 Hematology Analyzer
1100-1701	Convergys® Dil Diff D50 (20L)	Isotonic diluent
1100-1702	Convergys® Lyse-5P (5L)	Hemolysing Agent (WBC, HGB)
1100-1703	Convergys® Diff-5P (1L)	Hemolysing Agent (WBC, HGB, LYM, MON, NEU, EOS, BAS)
1100-1704	Convergys® Hypoclean CC (100ml)	Hypochloride cleaner
1100-1705	Convergys® check 5P Normal (3,0ml)	Blood control material, normal level
1100-1706	Convergys® check 5P High (3,0ml)	Blood control material, high level
1100-1707	Convergys® check 5P Low (3,0ml)	Blood control material, low level

* Convergent Technologies reserves the right to change any of the specifications without prior notice.

** Usage of original Convergent Technologies reagents is **MANDATORY**

*** Full specifications are available on request

CT_X5_VER002_20140121

Convergys® X5

5-part WBC differential Hematology Analyzer



- 26 parameter 5-part WBC differential
- Laserlight scattering technology
- 100 µl sample volume of whole Blood
- 25 µl optional small sample module (SSM) for pediatric use
- 60 tests per hour throughput
- 65 tests per hour throughput with optional Autosampler
- Strict lysing process for best quality WBC differentiation
- Integrated clog prevention system
- 800x600 dots color graphic touch LCD
- Easy-to-use menu, based on Embedded Windows® XP® software
- Large data storage for 100.000 records



Convergy's X5 is one of the high-end models of Convergent-Technologies Hematology Analyzers range. The *Convergy's X5* offers an optimal solution for hospitals, clinics and practices, which require a high throughput 26 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.

With the addition of the optional **small sample module (SSM*)** to the *Convergy's X5*, it is now possible to test samples having only a small blood volume in pediatric and neo-natal applications*.

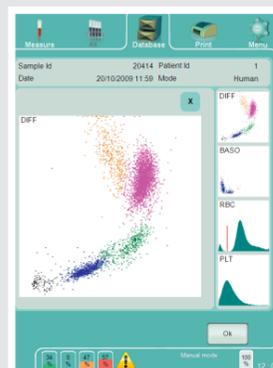
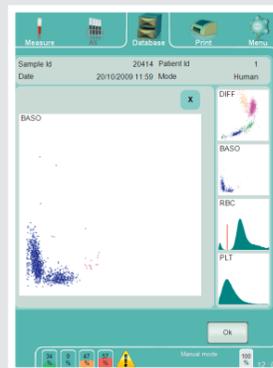
*SSM is validated for use with 3 tube types-BD Microtainer MAP, Sarstedt-Monovette and vacutainer to provide precise results on diluted samples. For use in open vial emergency mode only.

Convergy's X5

26 parameter 5-part WBC differential

High performance

- Complete 26-parameter CBC profile including the optical determination of the 5-part WBC differential count
- Autosampler with integrated bar code reader and mixer available
- Diagnostic flagging system
- Color touch-screen to monitor the results with large histograms and scattergrams
- Sophisticated operating menu: The instrument features an easy-to-use, logically constructed multilingual operating menu. It provides unlimited QC levels, L-J graphs and self-diagnostic functions to let you monitor reliability and accuracy
- The optical *laser diode* measurement technology ensures a longer lifetime and precise results with the special, high-tech flow cuvette
- *Convergy's X5* ensures the data transfer with USB or RS232 port to ensure the link to your established LIMS (Laboratory Integrated Management System) for further processing of the measured data



Specifications of *Convergy's X5*

Measured Parameters:	CBC+5-part WBC Differential mode, 26 Parameters: WBC, LYM, MON, NEU, BAS, EOS, LYM%, MON%, NEU% BAS%, EOS%, RBC, HGB, HCT, MCV, MCH, MCHC, RDWcv, RDWsd, PLT, P-LCC, P-LCR, PCT, MPV, PDWcv, PDWsd
Measuring Principles:	Volumetric Impedance Method for WBC and RBC, Spectrophotometry for HGB, Laser Light Scattering Technology for 5-part WBC Differential
Throughput:	60 tests / hour in the normal operations and 65 tests / hour with optional Autosampler
Reagent System:	Isotonic Diluent, Hemolysing Agent (WBC, HGB), Hemolysing Agent (WBC, HGB, LYM, MON, NEU, EOS, BAS), Hypocleaner
Sampling Method:	Open and Closed tube System with Automatic Sample Rotor, Ceramic Shear Valve with 3 Separated Primary Loops
Sample Volume:	100 µl of whole blood or 25 µl with small sample volume module (SSM) option
Sample Types:	Human (general), Male, Female, Baby, Toddler and Child (Built-in Reference Ranges)
Tube Identification:	Over On-Screen or External Keyboard (Enter ID) Over the Barcode Labels (Manual Barcode Scanner and/or Barcode Scanner in Autosampler)
Dilution Ratios:	WBC/BAS 1: 170, RBC/PLT 1: 21250, 4 DIFF 1: 50
Chambers:	3 Chambers for Diluting Whole Blood and Counting: 1:MIX, 1:RBC,1:WBC+HGB
Aperture Diameter:	70 µm (RBC/PLT), 80 µm (WBC/HGB)
HGB Measurement:	Integrated in WBC Chamber. Light source: Green LED with 540 nm Wavelength Detector: Light to Frequency Converter
TCU unit:	Transistors and Semiconductors are used to maintain the Temperature Control Unit (TCU) Temperature at 29° C for best quality WBC Differentiation and Maintain the Size of WBC Cells.
Optical Measurement:	Optical Measuring Head with closed Protective Housing Light source: Semiconductor Laser Diode with 650 nm Wavelength and 7mW (Class IIIB) Sample Path: Quartz Flow Cell with Hydro-Dynamic Focusing Detector: Fibre-Optic Coupled PIN Si Photodiodes with Internal Safety Interlock
Auto-Alignment system:	Horizontal Calibration of Laser Beam Position.
Fine Calibration:	With Calibration Material (Polystyrene Micro-Particle or Polystyrene Microsphere, 5 µm)
Clog Prevention:	High-Voltage Pulse on Aperture in Each Analysis Cycle; Chemical Cleaning; High-Pressure Back Flush of Aperture with Cleaner Reagent
Cleaning Procedure:	High-Voltage Burst of the Aperture, High-Pressure Back Flush, Chemical Cleaning of the Aperture with Cleaner Reagent
Quality Control:	Unlimited QC Levels, QC Parameters include: Mean, ± range, SD and CV for all Measured and Calculated Parameters, 16- and 64-day Levey-Jennings charts, Separate QC Database
Calibration:	3, 5 or 7-Measurement SW Supported Automatic Mode and Manual (Factors) Calibration
Flagging:	Warning Flags, Pathological (Diagnostic) Flags, Lab Limits (Normal Ranges) Reagents Alert (Internal Buffers for Reagents), Instrument Alerts
User Interface:	800 x 600 Dots, Color Graphic Touch LCD, Portrait Layout, Easy-to-Use, Menu Driven User Interface, Embedded Windows® XP® Software
Multi-user Feature (advanced):	Multi-User Operation with Selective Privilege Levels, User Identification with ID and Password
Languages Available:	English Menu with Support for German, Spanish, Croatian, Hungarian, Italian, Polish, Russian and Turkish
Host Computer Interface:	USB Ports, Ethernet Port and RS-232 Serial Link.
Data Back-up Method:	USB Mass Storage Device; External Lab Management System, LIS via Ethernet or USB
Software Upgrade method:	USB Port, using USB Mass Storage Device
Data Storage capacity:	100.000 Records including Flagging, 4-Diff and BAS-Scattergrams, RBC and PLT Histograms
Data Processing:	Via C7 1.8 GHz Processor
Data Store:	Windows® XP® Embedded
Printer Interface:	Via USB Port to any Windows® XP® Compatible Printer
Display:	800 x 600 Dots, Color Graphic Touch LCD, Portrait Layout
External Keyboard and Mouse:	Via PS/2 or USB Port
Barcode Reader:	Optional Manual Barcode Scanner via USB, Built-in Barcode Scanner in Optional Autosampler
Peripheral Ports:	USB 2.0 (4pc.), Ethernet, PS/2
Power Requirements:	100-120 or 200-240 VAC, 50-60Hz
Operating Conditions:	15° to 30° C, 59-86° F (Optimal temperature is 25 °C, 77 °F), 20%~ 80% RH,
Dimensions:	(W x D x H) ca. 515x 480 x 410 mm
Net weight:	ca. 35 kg

