Technical Specifications

Methods of Counting	WBC and their differential by Flow Cytometry and Laser Scatter; RBC / PLT by Electrical impedance; and HGB by Cyanide-free Colorimetric method.
Parameters	Reported Parameters (25 items) WBC, RBC, HGB, HCT, MCV, MCH, MCHC,RDW-SD, RDW-CV, PLT, MPV, PCT, PDW,P-LCR, P-LCC, NEU%, LYM%, MON%, EOS%,BAS%, NEU#, LYM#, MON#, EOS#, BAS# Research Parameters (4 items): ALY%, ALY#, LIC%, LIC# 4 scatter plots (WBC & Differential), 2 Histograms (RBC histogram, PLT histogram)
Sample Volume	20 µL
Throughput	60 Samples per hour.
Reagents	3 Routine reagents: Diluent, LH Lyse & Diff Lyse. Probe cleanser for maintenance.
Various Mode of Operations	▸ Venous whole blood CBC-DIFF mode. ▸ Pre-diluted whole blood CBC-DIFF mode. ▸ Capillary whole blood CBC-DIFF mode.
3 Calibration Modes	Manual / Calibrator / Fresh Blood.
Quality Control	2 QC Methods: L-J and X-B QC with appropriate QC charts.
Special Functions	▸ One button error resolution capability. ▸ Reagent reminder alarm with variable volume level and software reagent inventory management. ▸ Option to ADD microscopic findings which can be printed along with sample report.
Display	10.4-inch colour display, Resolution 800*600.
Data Storage	60,000 test results with Scattergram and Histogram.
Printer	In-built thermal printer/External printer connectivity -preloaded drivers.
Interface	2 USB ports & 1 Network port-compatible with TCP / IP protocol.
Communication	Two-way LIS system supports HL7 protocol.
Power Requirement	100V – 240VAC: 50/60Hz.
Operating Environment	Ambient Temperature (10°C-30°C) / Relative Humidity (≤90%)/ Atmospheric Pressure (70kPa-106kPa).
Physical Specification	Width ≤ 330mm Height ≤ 465mm Depth ≤ 466mm
Weight	≤30.5Kg

* Features are subject to change without prior notice.

Parameters	Linearity	Repeatability
WBC	0.0×10^9/L - 100.0×10^9/L	±5%
RBC	0.00×10^{12}/L - 8.00×10^{12}/L	±5%
HGB	0.0 g/dL - 25 g/dL	±2%
PLT	00×10^9/L - 1000×10^9/L	±8%

For further information contact :

Coral Clinical Systems

A Division of

TULIP DIAGNOSTICS (P) LTD.

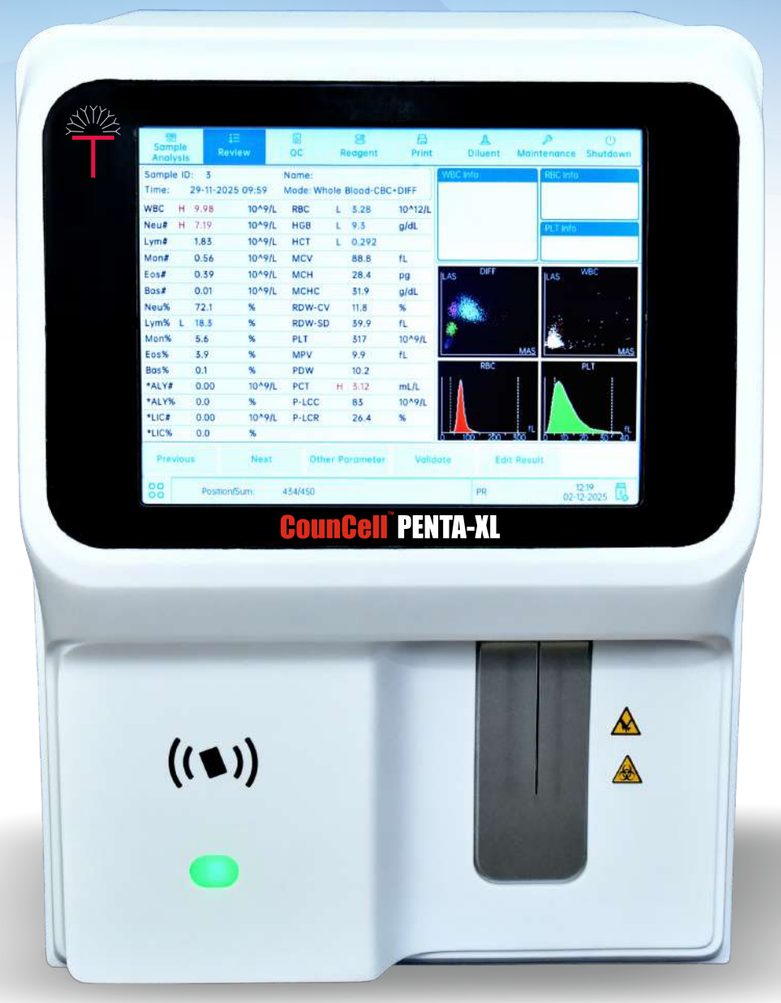
Gitanjali, Tulip Block, Dr. Antonio do Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.

Tel.: +91 832 2458546-50 **Fax :** +91 832 2458544 **E-mail :** sales@tulipgroup.com **Website :** www.tulipgroup.com

CPXL/LT/12-25/VER-01

CounCell™ PENTA-XL

5 Part Hematology Analyzer



"Trusted Counts for Confident Diagnosis."

CounCell™ PENTA-XL

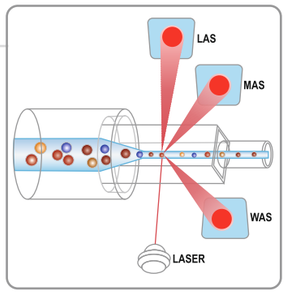
About CounCell PENTA XL

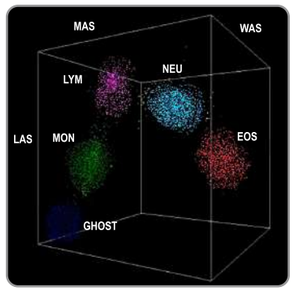
Designed for accurate and reliable counting, enabling better diagnosis and improved patient care for human samples. This advanced 5-Part Hematology Analyzer meets the operational needs of modern clinical laboratories. With its enhanced analytical performance and superior precision, CounCell PENTA XL helps build confidence in every count and supports high-quality diagnostic outcomes.



Principle of Operation

The CounCell PENTA XL is equipped with flow cytometry combined with tri-angle laser scatter technology, electrical impedance, and a cyanide-free colorimetric method to enable precise cell counting and accurate WBC differential analysis. Cells are interrogated by a laser beam, and resulting light-scatter signals—corresponding to cell size, internal complexity, and granularity—enable accurate cell classification and differentiation, producing reliable and reproducible results.

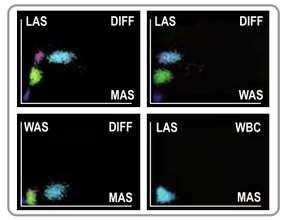




Findings

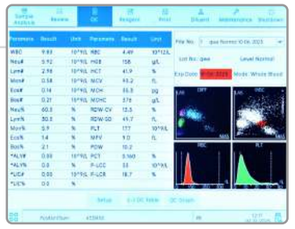
Capable of generating 25 reportable parameters along with 4 Research Use Only (RUO) parameters, supported by advanced graphical outputs including 4 WBC and differential scattergrams and 2 histograms for RBC and platelet (PLT) analysis





Trusted Accuracy

- Three Level Quality Control L-J and X-B.
- Abnormality Flags for Improved Clinical Interpretation.
- Extended linearity range.
- Individual counting of WBC differential i.e. Eosinophils, Basophils, Neutrophils, Lymphocytes, and Monocytes.



WBC FLAG	RBC FLAG	PLT Flag
WBC Abnormal	RBC Histogram Abnormal	PLT distribute abnormally
Aspiration or blank abnormal	RBC agglutination?	PLT agglutination?
WBC histogram abnormal	Bimodality	PLT decrease
WBC decrease	HGB Abnormal/Interfere?	PLT increase
WBC increase	Iron-deficiency?	
Neu decrease	Hypochromic	
Neu increase	Microcytosis	
Lym decrease	Macrocytosis	
Lym increase	Anaemia	
Mon increase	Erythrocytosis	
Bas increase		
Pancytopenia		

User-Friendly and Highly Functional System

- Multi-mode analysis including VWB, Capillary, and PD, available in CBC and CBC + Diff formats.
- Effortless maintenance with full system status visibility.
- Advanced prompts with instant error-fixing capability.
- Instant reagent status management.
- Easy data export via USB.
- 10.4-inch interactive colour touchscreen.
- Equipped with the latest software version and supports future upgrades.









#High Accuracy # Accelerated Analysis #High Throughput # Durable