Product Fact Sheet
XN-550

Product name

XN-550

Manufacturer information

Sysmex Corporation

www.sysmex-europe.com

Summary

The XN-550 is a member of the XN-L Series and part of the XN family. Encompassing Sysmex Silent Design® , high levels of performance and operability and proven Sysmex technology, the XN-550 provides full flexibility of profiles in haematology testing.

Additionally, the built-in Rerun & Reflex and Intelligent Rack Sampling functionalities provide a more streamlined workflow and a decrease in the sample turnaround time.

Standard Productivity values

- Superb performance and decreased TAT through an integrated IPU rule set for automated Rerun and Reflex testing

- Decreased TAT through automatic measurement of raised bottom tubes (RBT) by Intellegent Rack Sampling.

Optional Productivity values

- Reliable analysis and accurate WBC counts including differentials for leucocytopenic samples in L-WBC measurement mode.

- Decreased TAT by using the Speed-up application due to increased throughput from 60 to 70 samples/hour .

Standard Clinical values

- Standard routine testing supports the detection of infections and provides guidance for diagnosis and therapy monitoring of infections by reliably counting immature granulocytes (IG).

Optional Clinical values

- Using the optional RET application, reliable diagnosis of anaemic patients, based on the complete picture of the erythropoiesis by qualitative and quantitative information becomes standard. Early prognosis for therapy monitoring can be realised by advanced clinical parameters and their combinations (e.g. RET-H_e, IRF).
  In addition, the RET application provides improved PLT count reliability due to an automated switching algorithm in the case of interferences such as RBC fragments, microcytic RBC or giant PLT etc.

- Using the optional BF application, availability of results with high precision in clinically relevant concentration ranges and support in detection of inflammatory processes (e.g.by WBC-BF count completed by PMN, MN) by using the optional BF mode becomes standard.

Main Components

BOM No.	Item	Description	Qty
SE000622	XN-550	XN-550 main unit including items listed in the table below	1

The following items are included in the BOM:

Article no.	Item	Description	Qty
BD634545	XN-550	XN-550 main unit (excl. supply parts)	1
38000340	Handheld BR Gryphon	Handheld barcode reader (excl. cable for connection to instrument)	1
38000313	CAB-426 CABLE XN/XT/XS/UF-1000I	Cable for connection of handheld barcode reader to instrument	1
AH172969	XN-550 SUPPLY PARTS (EU)	Supply parts (for detailed content see IFU)	1
ZE000539	Perixx Keyboard PERIBOARD-505H PLUS [US]	Additional keyboard for service (international keyboard)	1
ZE000544	XN-L INSTALLATION KIT	Installation kit (incl. ZE000537 XN-L EMBEDDED SOFTWARE-IPU MEDIAKIT, ZE000538 XN-L Labelling KIT)	1

Optional Components

Article no.	Item	Description	Qty
ZE000540	XN-L BF licence	XN-L licence for the BF mode	1
ZE000541	XN-L RET licence	XN-L licence for the RET channel	1
ZE000542	XN-L L-WBC licence	XN-L licence for the low WBC mode	1
ZE000543	XN-L Speed-up licence	XN-L licence for higher throughput	1
01330061	PU-17 COMPLETE 200V(white)	Additional pneumatic unit for use at high altitude	1
ZE000321	Media kit *Extended* IPU	SW to interlink all Sysmex workplaces to improve sample	1

		and data workflow	
VS933AV	*Extended* IPU server hardware	Computer hardware for the *Extended* IPU server	1
XL510AV	*Extended* IPU client hardware	Computer hardware for an *Extended* IPU client	1
XN375ATABB	*Extended* IPU TFT monitor	TFT monitor for *Extended* IPU server and client hardware	1
SE000893	*Ext.* IPU SQLSV 2012 STD RT 1 LIC 5 CAL	SQL Server Licence for *Extended* IPU; CAL licence package including licences for 5 CALs	1
ZE000902	Handheld BR GRYPHON Cordless complete	Handheld cordless barcode reader as alternative for 38000340	1
38000305	Gryphon Desk-/Wall Holder	Wall holder for handheld barcode reader 38000340	1
AK369883	Intake Tube ASSY NO. 12	For connecting 20L CELLPACK DCL (politainer)	1
ZE000550	Spout Kit FOR 5L POLITAINER	For connecting 5L Sulfolyser (politainer) and 5L Lysercell WDF (politainer)	1
CM915147	Intake Tube ASSY NO. 70	For connecting 4L Lysercell WDF (paper pack) and 1.5L CELLPACK DFL (paper pack)	1

Reagents

Article no.	Item	Qty
CU228496	CELLPACK DCL	10L
05433514	SULFOLYSER	1 x 500mL
90411317	SULFOLYSER	3 x 500mL
BG689680	LYSERCELL WDF	1 x 2L
AA325279	FLUOROCELL WDF	2 x 22mL
83401621	CELLCLEAN	1 x 50mL
CF579595	CELLCLEAN AUTO	20 x 4mL
AR829995	CELLPACK DFL	1 x 1L
CU920210	FLUOROCELL RET	2 x 12mL

Quality control and calibration

Article no.	Item	Qty
213484	XN Check L1	8 x 3mL
213485	XN Check L2	8 x 3mL
213486	XN Check L3	8 x 3mL
213510	XN Check BF	2 levels 3 x 3mL
213523	XN CAL	3 x 3mL
ZE000528	USB STICK XN Check/XN Check BF	1
ZE000548	USB STICK XN CAL	1

Specifications

Feature	Description
Standard parameters (whole blood)	26 Standard diagnostic parameters
	CBC WBC, RBC, HGB, HCT, MCHC, MCH, MCV, PLT, RDW-SD, RDW-CV, MPV, PDW, P-LCR, PCT
	XN-DIFF NEUT%, MONO%, EO%, BASO%, LYMPH%, IG%, NEUT#, MONO#, EO#, BASO#, LYMPH#, IG#
Optional parameters (whole blood)	15 Optional diagnostic parameters
	RET RET%,RET#, IRF, LFR, MFR, HFR, PLT-O, RET-H_e
	XN-BF WBC-BF, RBC-BF, PMN%, PMN#, MN%, MN#, TNC
Research parameters (whole blood)	36 Research parameters
	CBC Micro RBC, Macro RBC
	XN-DIFF TNC, TNC-C, TNC-D, WBC-C, WBC-D, NE-SSC, NE-SFL, NE-FSC, NRBC #, NRCB %, HFLC#, HFLC%
	RET Hypo-H_e, Hyper-H_e, FRC#, FRC%, RPI, Delta-H_e, RBC-H_e RBC-O, HGB-O, MCHC-O, Delta-HGB
	XN-BF HF-BF#, HF-BF%, NE-BF#, NE-BF%, LY-BF#, LY-BF%, MO-BF#, MO-BF%, EO-BF#, EO-BF%, RBC-BF-2

Technologies	– Fluorescence flow cytometry – Hydrodynamic focused impedance measurement – SLS Haemoglobin method
Throughput CBC CBC+DIFF CBC+RET CBC+DIFF+RET Body Fluid (BF) analysis	 Up to 60 (70[*1]) samples/hour Up to 60 (70[*1]) samples/hour Up to 35 samples/hour Up to 35 samples/hour Up to 40 samples/hour (BF mode only) [1] – With optional Speed-up Licence
Aspiration volume Manual mode Sampler mode Low WBC mode Pre-dilution mode Body fluid mode	 25µL 25µL 25µL 70µL 70µL
Data storage Samples (incl. graphics) Patient information Wards registered Doctors names registered Calibration log Quality control files Analysis registration function Reagent replacement history Maintenance history	 100,000 (including histograms and scattergrams) 10,000 200 wards 200 names 20 records 99 files (300 plots per file) 2,000 records 5,000 records 5,000 records
QC functions Xbar and or L-J XbarM	 300 plots x 96 files (L-J control) 300 plots x 3 files (XbarM control)
Weight Main unit (incl. SU*) Monitor	 Approx. 53kg Approx. 3kg
Dimensions Main unit Monitor	 Approx. 450 (W) x Approx. 460 (D) x Approx. 660(H) mm Approx. 267 (W) x Approx. 205 (D) x Approx. 240 (H) mm
Interface	RS-232C, 2x Ethernet (RJ45), 4x USB
Operating system	Embedded Microsoft ®Windows 7 with McAfee Security
Operative temperature	15 to 35 °C
Operative humidity	30 to 85 %
Noise level	60dB or less

Power requirement Main unit	AC 100 to 240V (50/60 Hz)
Power consumption Main unit	235 VA

Reference: XN-L BO, GI & TS IFU 1412