

Part 1 of 12	Abbott Diagnostics Christy Thiessen christy.thiessen@abbott.com Abbott Park, IL 800-323-9100 www.corelaboratory.abbott	Abbott Diagnostics Christy Thiessen christy.thiessen@abbott.com Abbott Park, IL 800-323-9100 www.corelaboratory.abbott	Abbott Diagnostics Christy Thiessen christy.thiessen@abbott.com Abbott Park, IL 800-323-9100 www.corelaboratory.abbott
Name of instrument	Alinity h-series*	CELL-DYN Emerald*	CELL-DYN Emerald 22*
First year installed in U.S./Outside U.S./No. of units sold Sept. 2022–Aug. 2023	2023/2017/—	2009/2008/—	2016/2016/—
No. units installed in U.S./Outside U.S./List price†	—/—/770/—	>1,700/>2,800/\$30,000	—/—/\$64,000
Menu of chartable tests (standard menu: WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, neut %&#, mono, lymph, eos, baso)	WBC, RBC, Hb, Hct, MCV, MCH, MCHC, Plt, neut %&#, mono %&#, lymph %&#, eos %&#, baso %&#, IG %&#, RDW, NRBC, NR/W, RETIC %&#, R %, IRF, MChR, MPV, rP %	WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, lymph %&#, gran %&#, mid %&#, RDW, MPV	standard menu plus: RDW, MPV, mono %&#, lymph %&#, eos %&#, baso %&#
Tests submitted for 510(k) clearance/Tests in development	—	—	—
Tests for research use only	RDW-SD, microcytic RBC%, macrocytic RBC%, hypochromic RBC%, hyperchromic RBC%, HDW, CHCM, cHGB, MCVr, more	—	—
Tests unique to analyzer	—	—	—
Differential method(s) used	advanced MAPSS (multi-angle polarized scatter separation) technology using seven light scatter detectors and one fluorescent detector	electrical impedance counting	UNI-FLOW Optical Technology
Analytical measurement range:	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV (fL) or Hct (%) • Reticulocytes 	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV or Hct • Reticulocytes 	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV or Hct • Reticulocytes
Precision:	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV or Hct • Reticulocytes 	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV or Hct • Reticulocytes 	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV or Hct • Reticulocytes
Accuracy of automated differential compared with manual differential (per CLSI H20-A2)	—	—	—
Interfering substances:	<ul style="list-style-type: none"> • WBC • RBC • MCV or Hct • Platelet • Hemoglobin • Reticulocytes 	<ul style="list-style-type: none"> • WBC • RBC • MCV or Hct • Platelet • Hemoglobin • Reticulocytes 	<ul style="list-style-type: none"> • WBC • RBC • MCV or Hct • Platelet • Hemoglobin • Reticulocytes
Interfering substances: differential	cryoglobulin, cryofibrinogen, fragile WBCs, nonviable WBCs, neutrophil aggregates, hemoglobin C crystals, NRBCs, PLT clumps/aggregates	cryoglobulin, cryofibrinogen, heparin, monoclonal proteins, nucleated red cells, platelet clumping, unlysed red cells, clotting, smudge cells, uremia plus immunosuppressants	cryoglobulin, cryofibrinogen, heparin, monoclonal proteins, nucleated red cells, platelet clumping, unlysed red cells, clotting, smudge cells, uremia plus immunosuppressants
Throughput: max. CBCs per hour/Max. CBCs and differentials per hour	—/119	57/57	45/45
Minimum specimen volume open/Closed/Sample dead volume closed	≤100 μL/≤100 μL/dependent on tube	9.8 μL/—/—	17 μL/—/—
Microsample capability	no	no	no
Instrument prepares microscope slides automatically/No. of automatic slide makers installed	yes/>150	no/—	no/—
Slide maker stainer sold separately or combined unit	sold as combined unit	—	—
Instrument archives patient data/Archiving is patient specific	yes/yes	yes/no	yes/no
Maximum amount of archived data accessible when system online	—	300,000 on USB and 1,500 results on internal memory	300,000 on USB and 1,000 records with histograms on internal memory
No. specimens for which numeric results saved in memory at once	most recent 100,000 results	300,000 on USB and 1,500 results on internal memory	300,000 on USB and 1,000 records with histograms on internal memory
No. specimens for which histo/cytogram results saved in memory at once	most recent 100,000 results	300,000 on USB and 1,500 results on internal memory	300,000 on USB and 1,000 records with histograms on internal memory
Instrument performs delta checks	yes	no	no
Parameters for which flags may appear	morphological flags including PLT clump, left shift, blast, variant LYM, RBC fragments, ASYM RBC, more	dispersional data alerts, suspect measurand flags, and count invalidation flags	dispersional data alerts, suspect parameter flags, and count invalidation flags
Flagging is operator selectable	operator and vendor selectable	yes	yes
Tags and holds results for follow-up, confirmatory testing, or rerun	yes	no	no
Parameters for flags for holding samples defined by user or vendor	user and vendor	user	user
Scattergram display: cell-specific color	yes	no	yes
Histogram display: color with thresholds	yes	no	yes
User interface can display choice of specimen or result information	yes	yes	yes
LIS interface formats supported	ASTM 1394-91, ASTM 1381, HL7	proprietary	proprietary
Information transferred via LIS interface	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for patient demographics and orders	numeric and flag results, instrument to LIS	numeric and flag results, instrument to LIS
LOINC codes transmitted with all results/Sent in message to LIS/ Listing of machine codes and corresponding LOINC for each test	no/no/no	no/no/no	no/no/no
Interface available or planned to automated specimen-handling system	Abbott ACCELERATOR a3600, Abbott GLP systems Track	no	no
Barcode symbologies read on specimen tube	Codabar, Code 39, Code 128, Interleaved 2 of 5	Codabar, Code 39, Code 128, Interleaved 2 of 5, Chinese post, Code 93, EAN8, EAN13, EAN128, IATA, Industrial 2 of 5, Italian pharmaceutical, Matrix 2 of 5, MSI/Plessey, more	Codabar, Code 39, Code 128, Interleaved 2 of 5, Chinese post, Code 39 full ASCII, Code 93, EAN8, EAN13, EAN128, IATA, Industrial 2 of 5, Italian pharmaceutical, Matrix 2 of 5, more
Accommodates barcode placement per CLSI standard Auto02-A2	yes	no	no
No. of cleaning or maintenance reagents required/No. of routine liquid reagents required	1 (Alinity hq module)/3 CBC/diff, 1 retic	1/2	1/2
Time required for daily, weekly, monthly maintenance	daily: 0 (automatic) for Alinity hq, hs modules; weekly: 0 (automatic) for Alinity hq, hs modules	daily: none; weekly: ~15 min.; biannually: ~10 min.	daily: none; weekly: 15 minutes; quarterly: ~10 minutes
Onboard diagnostics for troubleshooting/Limited to software problems	yes/no	no/no	no/no
Manufacturer can perform diagnostics via modem	no	no	no
Distinguishing features (supplied by company)	high productivity, scalable systems that use only 3 reagents to provide CBC results with 6-part WBC differential and nRBC; duplicate reagents onboard, automated daily and weekly maintenance; seamless connectivity to Abbott ACCELERATOR a3600 lab automation system and AlinIQ middleware	small: sample size, reagent volumes used, and physical size; reliable: averages one service call per year; easy to use: system has touchscreen software with intuitive icons and minimal layers	small physical footprint, only 3 reagents used (2 of 3 reagents stored onboard), and built-in monitor; automated start-up, shut down, and cleaning; 5-part differential using UNI-FLOW optical flow cytometry technology with a patented lyse allowing for clear separation of the 5 WBC populations
†does not include slide maker stainers			
Note: a dash in lieu of an answer means company did not answer question or question is not applicable			
	*refer to Alinity h-series operations manual for warnings, limitations, and precautions	*refer to CELL-DYN Emerald operator's manual for warnings, limitations, and precautions	*refer to CELL-DYN Emerald 22 operator's manual for warnings, limitations, and precautions

Part 2 of 12	Abbott Diagnostics Christy Thiessen christy.thiessen@abbott.com Abbott Park, IL 800-323-9100 www.corelaboratory.abbott	Abbott Diagnostics Christy Thiessen christy.thiessen@abbott.com Abbott Park, IL 800-323-9100 www.corelaboratory.abbott	Advanced Instruments Julie Mackenzie gloocyte@aicompanies.com Norwood, MA 781-320-9000 www.aicompanies.com
Name of instrument	CELL-DYN Emerald 22 Autoloader*	CELL-DYN Ruby*	GloCyte Automated Cell Counter for CSF
First year installed in U.S./Outside U.S./No. of units sold Sept. 2022–Aug. 2023	2019/—/—	2006/2006/—	2016/2018/—
No. units installed in U.S./Outside U.S./List price†	—/—/\$75,000	>550/>2,700/\$185,000	—
Menu of chartable tests (standard menu: WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, neut %&#, mono, lymph, eos, baso)	standard menu plus: RDW, MPV, mono %&#, lymph %&#, eos %&#, baso %&#	standard menu plus: MPV, RDW, retic %&#, mono %&#, lymph %&#, eos %&#, baso %&#	RBC, TNC
Tests submitted for 510(k) clearance/Tests in development	—	—	—
Tests for research use only	—	—	—
Tests unique to analyzer	—	atypical depolarization flag	—
Differential method(s) used	UNI-FLOW Optical Technology	MAPSS (multi-angle polarized scatter separation)	—
Analytical measurement range:	0.4–90 K/ μ L/1.2–8.3 M/ μ L	0.02–246 $\times 10^3$ / μ L/0.00–7.50 $\times 10^6$ / μ L	TNC: 3–123 cells/ μ L (reportable range, 3–6,500 cells/ μ L)/ 2–123 cells/ μ L (reportable range, 2–615,644 cells/ μ L)
	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV (fL) or Hct (%) • Reticulocytes 	<ul style="list-style-type: none"> • Hemoglobin/Platelet • MCV or Hct • Reticulocytes 	—
Precision:	3.2% CV/2.0% CV	2.4%/1.8%	TNC: 2.5–18.0% repeatability CV/ 2.7–16.3% repeatability CV
	<ul style="list-style-type: none"> • Hemoglobin/Platelet • MCV or Hct • Reticulocytes 	<ul style="list-style-type: none"> • Hemoglobin/Platelet • MCV or Hct • Reticulocytes 	—
Accuracy of automated differential compared with manual differential (per CLSI H20-A2)	neut% r=1.00, slope=0.97, y=1.88; lymph% r=0.99, slope=1.00, y=0.30; mono% r=0.92, slope=0.96, y=0.42; eos% r=0.97, slope=0.93, y=0.22; baso% r=0.63, slope=0.26, y=0.04	neut% r=0.983, slope=0.97, y=-1.98; lymph% r=0.921, slope=0.95, y=0.94; mono% r=0.711, slope=1.10, y=1.93; eos% r=0.952, slope=1.04, y=0.01; baso% r=0.146, slope=0.18, y=1.22	—
Interfering substances:	<ul style="list-style-type: none"> • WBC • RBC • MCV or Hct • Platelet • Hemoglobin • Reticulocytes 	<ul style="list-style-type: none"> • WBC • RBC • MCV or Hct • Platelet • Hemoglobin • Reticulocytes 	<ul style="list-style-type: none"> • WBC • RBC • MCV or Hct • Platelet • Hemoglobin • Reticulocytes
Interfering substances: differential	platelet aggregates, erythroblasts, small lymphocytes, immature cells, resistant RBCs, giant or hypersegmented neutrophils, bands	fragile WBC, neutrophil aggregates, lytic-resistant RBCs, NRBCs, PLT clumps, cryofibrinogen, cryoglobulin, paraproteins	—
Throughput: max. CBCs per hour/Max. CBCs and differentials per hour	40/40	84/84	CSFs: ~12/—
Minimum specimen volume open/Closed/Sample dead volume closed	21 μ L/21 μ L/500 μ L	150 μ L/230 μ L/1.2 mL	60 μ L/—/—
Microsample capability	no	no	—
Instrument prepares microscope slides automatically/No. of automatic slide makers installed	no/—	no/—	no/—
• Slide maker stainer sold separately or combined unit	—	—	—
Instrument archives patient data/Archiving is patient specific	yes/yes	yes/yes	yes/yes
Maximum amount of archived data accessible when system online	300,000 on USB and 1,000 records with histograms on internal memory	10,000 results	—
No. specimens for which numeric results saved in memory at once	300,000 on USB and 1,000 records with histograms on internal memory	10,000 results	>100,000 results
No. specimens for which histo/cytogram results saved in memory at once	300,000 on USB and 1,000 records with histograms on internal memory	10,000 results	—
Instrument performs delta checks	no	no	—
Parameters for which flags may appear	dispersional data alerts, suspect parameter flags, and count invalidation flags	NRBC, FWBC, NWBC, RRBC, band, IG, blast, variant lymph, RBC morph., DFLT, MCHC, LRI, URI, LURI, ATYPDEP, high-low interp. message, WBC	control results out of range, expired reagents warning
Flagging is operator selectable	no	yes	no
Tags and holds results for follow-up, confirmatory testing, or rerun	yes	yes	yes
Parameters for flags for holding samples defined by user or vendor	vendor	user	vendor
Scattergram display: cell-specific color	yes	yes	no
Histogram display: color with thresholds	yes	yes	no
User interface can display choice of specimen or result information	yes	yes	yes
LIS interface formats supported	proprietary	proprietary	RS232, bidirectional
Information transferred via LIS interface	numeric and flag results, instrument to LIS	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for patient demographics and orders	numeric and flag results, instrument to LIS; patient orders, LIS to instrument—broadcast
LOINC codes transmitted with all results/Sent in message to LIS/ Listing of machine codes and corresponding LOINC for each test	no/no/no	no/no/no	yes/yes/—
Interface available or planned to automated specimen-handling system	no	no	no
Barcode symbologies read on specimen tube	Codabar, Code 39, Code 128, Interleaved 2 of 5, Chinese post, Code 39 Full ASCII, Code 93, EAN8, EAN13, EAN128, IATA, Industrial 2 of 5, Italian pharmaceutical, Matrix 2 of 5, MSI/Plessey, UK/Plessey, Telepen, TriOptic, S-Code, UPC A, UPC E	Codabar, Code 39, Code 128, Interleaved 2 of 5, ISBT	Codabar, Code 39, Code 128, Interleaved 2 of 5, Data Matrix
Accommodates barcode placement per CLSI standard Auto02-A2	no	no	yes
No. of cleaning or maintenance reagents required/No. of routine liquid reagents required	1/2	1/3	0/2 (RBC and TNC reagents)
Time required for daily, weekly, monthly maintenance	daily: none; weekly: 15 minutes; quarterly: ~10 minutes	daily: ~30 seconds; weekly: ~5 min.; monthly: ~10 min.	minimal annual maintenance required
Onboard diagnostics for troubleshooting/Limited to software problems	no/no	yes/no	yes/no
Manufacturer can perform diagnostics via modem	no	yes	no
Distinguishing features (supplied by company)	small: number of reagents used, footprint, sample size; safe, open tube sampling device; closed tube, continuous autoloading with automated rerun	touch-sensitive screen, all optical technology; onboard maintenance videos; lyse-resistant RBC mode; rules-based result annotations	1 cell/ μ L limit of detection for RBC and TNC; consistent turnaround time for standardization and for Lean practices; disposable test cartridges eliminate carryover for infectious samples
†does not include slide maker stainers			
Note: a dash in lieu of an answer means company did not answer question or question is not applicable	*refer to CELL-DYN Emerald 22 Autoloader operator's manual for warnings, limitations, and precautions	*refer to CELL-DYN Ruby operator's manual for warnings, limitations, and precautions	

Part 3 of 12	Beckman Coulter Eric Pabon epabon@beckman.com Miami, FL 305-380-3800 www.beckmancoulter.com	Beckman Coulter Eric Pabon epabon@beckman.com Miami, FL 305-380-3800 www.beckmancoulter.com	Beckman Coulter Eric Pabon epabon@beckman.com Miami, FL 305-380-3800 www.beckmancoulter.com
Name of instrument	DxH Connected Workcell	DxH SMS II	DxH 520
First year installed in U.S./Outside U.S./No. of units sold Sept. 2022–Aug. 2023	2014/2014/—	2018/2018/>15	2019/2018/>300
No. units installed in U.S./Outside U.S./List price†	100/200/\$690,000	13/9/\$177,100	>20/>700/\$30,000
Menu of chartable tests (standard menu: WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, neut %&#, mono, lymph, eos, baso)	standard menu plus: IRF, MPV, MRV, NRBC %&#, RDW-CV, RDW-SD, automated retic #, retic %; body fluids: total nucleated count, RBC count for synovial, serous, CSF fluids, and slidemaking; MDW	—	standard menu plus: RDW, RDW-SD, MPV
Tests submitted for 510(k) clearance/Tests in development	—	—	—
Tests for research use only	body fluid mononuclear %&#, body fluid polymorphonuclear %&#, EGC %&#, high light scatter retic %&#; retic and extended retic panel; RSf, LHD, UGC, MAF, MSCV	—	IMM %&#, LHD, MAF, PCT, PDW
Tests unique to analyzer	extended retic panel: MRV; direct count MPV, MCV, MDW; body fluid: BAL fluids; MDW	—	—
Differential method(s) used	biophysical characterization with 5 angles of light scatter for size and refractive capabilities, direct volume, conductivity for intracellular and nuclear complexity, more	—	optical bench with Coulter digital impedance
Analytical measurement range:	<ul style="list-style-type: none"> • WBC count/RBC count 0.050–400.000/0.005–8.500 • Hemoglobin/Platelet 0.10–25.50/3.0–3,000.0 • MCV (fL) or Hct (%) 50.00–150.00 (MCV) for measuring range, 0.00–85.00 (Hct) for operating range • Reticulocytes 0.000–30.000 	—	0.20–100.00 × 10 ³ cells/μL/0.20–8.00 × 10 ⁶ cells/μL 0.20–25.00 g/dL/7.0–2000.0 × 10 ³ cells/μL 50.0–150.0 fL (MCV)
Precision:	<ul style="list-style-type: none"> • WBC count/RBC count ≤3.0%/≤1.5% • Hemoglobin/Platelet ≤1.5%/≤3.5% • MCV or Hct ≤1.0% (MCV) • Reticulocytes — 	—	≤0.20 SD when 0.20–3.00 × 10 ³ cells/μL, ≤6.00% CV when >3.00 × 10 ³ cells/μL/≤3.00% CV @ 3.50–8.00 × 10 ⁶ cells/μL ≤3% @ 11≤5 g/dL, ≤3% @ 5≤11 g/dL, ≤1.5% @ ≥11 g/dL/≤10.00% CV @ 100.0–200.0, ≤20.00% CV @ 7.00–100.0 ≤1.0% (MCV)
Accuracy of automated differential compared with manual differential (per CLSI H20-A2)	neut= ±2.0; lymph, mono= ±3.0; eso, baso= ±1.0 or 10%, whichever is greater	—	NE, LY, MO ±3.00; EO ±1.5; BA ±1.0 or 10%, whichever is greater
Interfering substances:	<ul style="list-style-type: none"> • WBC possibly precipitated elevated proteins, cryoglobulin, fragmented white cells, agglutinated white cells, lyse-resistant red cells, giant platelets, platelet clumps, more • RBC very high WBC count, high concentration of very large platelets, autoagglutinins • MCV or Hct very high WBC count, high concentration of very large platelets, autoagglutinins • Platelet platelet clumps, white cell fragments, very small red cells, red cell fragments, giant platelets, electronic noise • Hemoglobin severe lipemia, heparin, certain unusual RBC abnormalities that resist lysing • Reticulocytes — 	none none none none none	possibly unlysed RBCs, NRBCs, cryoglobulin, cryofibrinogen, PLT clumps, giant PLTs, agglutinated white cells possibly agglutinated red cells, unlysed RBCs, elevated WBCs, more possibly agglutinated red cells, unlysed RBCs, elevated WBCs, more possibly giant PLTs, platelet clumps, microcytic RBCs, cryoglobulin, white or red cell fragments possibly lipids >62.5 mg/dL (lipemia)
Interfering substances: differential	elevated triglycerides, precipitated elevated proteins, hypogranular granulocytes, agranular granulocytes, lyse-resistant red cells, very small or multipopulation lymphocytes	none	possibly unlysed RBCs, NRBCs, cryoglobulin, cryofibrinogen, PLT clumps, giant PLTs, agglutinated white cells
Throughput: max. CBCs per hour/Max. CBCs and differentials per hour	300/300	140 slides/—	55 closed-tube samples, 60 open-tube samples/55 closed-tube samples, 60 open tube-samples
Minimum specimen volume open/Closed/Sample dead volume closed	165 μL/165 μL/400 μL or 250 μL for MAP tubes	90 μL/90 μL/250–400 μL	16.7 μL/16.7 μL/1 mL standard tube or 375 μL MAP microtainer
Microsample capability	yes	yes	yes
Instrument prepares microscope slides automatically/No. of automatic slide makers installed	yes/—	yes/—	no/—
• Slide maker stainer sold separately or combined unit	sold separately (\$165,000)	—	sold separately
Instrument archives patient data/Archiving is patient specific	yes/yes	no/no	yes/yes
Maximum amount of archived data accessible when system online	up to 100,000 patient results including graphics	—	30,000 patient results
No. specimens for which numeric results saved in memory at once	up to 100,000	—	30,000 patient results
No. specimens for which histo/cytogram results saved in memory at once	up to 100,000	—	30,000 patient results
Instrument performs delta checks	yes	no	—
Parameters for which flags may appear	P flag appears on slide with aspiration errors	—	definitive range, measurement range, normal range, edited sample, low confidence result, H and H check fail, action limits, reference limits
Flagging is operator selectable	yes	—	operator and vendor selectable
Tags and holds results for follow-up, confirmatory testing, or rerun	yes	no	yes
Parameters for flags for holding samples defined by user or vendor	user and vendor	—	user
Scattergram display: cell-specific color	yes	no	yes
Histogram display: color with thresholds	yes	no	yes
User interface can display choice of specimen or result information	yes	yes	yes
LIS interface formats supported	ASTM 1394, ASTM 1238, IEEE MIB, CLSI LIS01-A2	ASTM 1394, ASTM 1238, IEEE MIB, CLSI LIS1-A, CLSI LIS2-A	IEEE MIB, CLSI LIS01-A2, CLSI LIS02-A2
Information transferred via LIS interface	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for patient demographics and orders (available with release of Workcell)	patient demographics, LIS to instrument—broadcast; host query for patient demographics and orders	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast
LOINC codes transmitted with all results/Sent in message to LIS/ Listing of machine codes and corresponding LOINC for each test	yes/yes/yes	no/no/no	no/no/no
Interface available or planned to automated specimen-handling system	Beckman Coulter	Beckman Coulter	no
Barcode symbologies read on specimen tube	Codabar, Code 39, Code 128, Interleaved 2 of 5, NW7, ASTM	Codabar, Code 39, Code 128, ASTM, Interleaved 2 of 5, NW7	Codabar, Code 39, Code 128, Interleaved 2 of 5, NW7, ISBT 128 (donor ID only)
Accommodates barcode placement per CLSI standard Auto02-A2	yes	yes	yes
No. of cleaning or maintenance reagents required/No. of routine liquid reagents required	1/4	1 preloaded cube with up to 30 cleaning cycles/3 (can vary): stain, buffer, diluent	1 preloaded bottle/2 (CBC, diff)
Time required for daily, weekly, monthly maintenance	daily: 30 minutes; weekly: none; monthly: none	daily: up to 20 min.; weekly: up to 30 min.; monthly: as needed	daily: 5 min.; weekly: none; monthly: 15 min.
Onboard diagnostics for troubleshooting/Limited to software problems	yes/no	yes/no	yes/no
Manufacturer can perform diagnostics via modem	yes	yes	no
Distinguishing features (supplied by company)	MDW aids in identifying severity of infection, risk of sepsis as part of CBC-diff for ED patients; DxH 900 Connected Workcell and DxH Slidemaker Stainer II are being designed to connect with Scpio X100HT digital cell morphology platform; ProCARE service program designed to prevent unplanned downtime, improve performance and reliability	DxH Concentrated ECO Diluent extends walkaway time, optimizes inventory management; DxH 900 Connected Workcell and DxH Slidemaker Stainer II are being designed to connect with Scpio X100HT digital cell morphology platform	small aspiration: 16.7 μL for a closed tube, 5-part differential instrument, ideal for infants and difficult draws; small footprint: requires only 2 reagents for a full CBC-diff; reliable: less than 1 service call per year on average

†does not include slide maker stainers

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

Part 4 of 12	Beckman Coulter Eric Pabon epabon@beckman.com Miami, FL 305-380-3800 www.beckmancoulter.com	Beckman Coulter Eric Pabon epabon@beckman.com Miami, FL 305-380-3800 www.beckmancoulter.com	Beckman Coulter Eric Pabon epabon@beckman.com Miami, FL 305-380-3800 www.beckmancoulter.com
Name of instrument	DxH 560 AL	DxH 690T	DxH 900
First year installed in U.S./Outside U.S./No. of units sold Sept. 2022–Aug. 2023	2020/2021/>150	2019/2019/>150	2018/2018/>350
No. units installed in U.S./Outside U.S./List price†	45/142/\$52,000	0/10/\$218,000	80/240/\$259,600
Menu of chartable tests (standard menu: WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, neut %&#, mono, lymph, eos, baso)	standard menu plus: MPV, RDW-SD, RDW-CV	standard menu plus: retic and extended retic panel: retic %&#, MRV, IRF; extended platelet panel: MPV; extended RBC panel: NRBC %&#, RDW-CV, RDW-SD, more	standard menu plus: retic and extended retic panel: automated retic %&#, MRV, IRF; extended platelet panel: MPV; extended RBC panel: NRBC %&#, RDW-CV, RDW-SD; body fluids: total nucleated count
Tests submitted for 510(k) clearance/Tests in development	—	—	—
Tests for research use only	IMM %&#, LHD, MAF, PCT, PDW	body fluid mononuclear %&#, body fluid polymorphonuclear %&#, EGC %&#, high light scatter retic %&#, retic; RSf, LHD, UGC, MAF, MSCV	body fluid mononuclear %&#, body fluid polymorphonuclear %&#, EGC %&#, high light scatter retic %&#, retic; RSf, LHD, UGC, MAF, MSCV
Tests unique to analyzer	—	extended retic panel: MRV; direct count MPV, MCV, severity of infection and risk of sepsis: MDW	extended retic panel: MRV; direct count MPV, MCV, severity of infection and risk of sepsis: MDW
Differential method(s) used	flow cytometry with proprietary dynamic gating	near-native biophysical cell characterization with 5 angles of light scatter for size and refractive capabilities, direct volume Coulter principle, more	near-native biophysical cell characterization with 5 angles of light scatter for size and refractive capabilities, direct volume Coulter principle, more
Analytical measurement range:	<ul style="list-style-type: none"> WBC count/RBC count Hemoglobin/Platelet MCV (fL) or Hct (%) Reticulocytes 	0.20–100.00/20–8.00 0.20–25.00/7.0–2000.0 50.0–150.0 (MCV), 0.0–85.0 (Hct)	0.050–400.00 × 10 ³ cells/μL/0.005–8.500 × 10 ⁶ cells/μL 0.10–25.50 g/dL/3.0–3,000.0 × 10 ³ cells/μL 50.00–150.00 fL (MCV, direct measure) 0.000–30.000
Precision:	<ul style="list-style-type: none"> WBC count/RBC count Hemoglobin/Platelet MCV or Hct Reticulocytes 	<ul style="list-style-type: none"> ≤0.20 SD when 0.20–3.00 × 10³ cells/μL, ≤6.00% CV when >3.00 × 10³ cells/μL/≤3.00% CV @ 3.50–8.00 × 10⁶ cells/μL/≤0.20 SD when 0.20–3.00 × 10³ cells/μL, ≤6.00% CV when >3.00 × 10³ cells/μL/≤3.00% CV @ 3.50–8.00 × 10⁶ cells/μL ≤3% @ 11–5 g/dL, ≤3% @ 5–11 g/dL, ≤1.5% @ ≥11 g/dL/≤10.00% CV @ 100.0–200.0, ≤20.00% CV @ 7.00–100.0/≤3% @ 11–5 g/dL, ≤3% @ 5–11 g/dL, ≤1.5% @ ≥11 g/dL/≤10.00% CV @ 100.0–200.0, ≤20.00% CV @ 7.00–100.0 ≤1.0% (MCV) 	<ul style="list-style-type: none"> ≤3.0%/≤1.5% ≤1.5%/≤3.5% @ 100.0–200.0 × 10³ cells/μL ≤1.0% (MCV) <0.25 SD @ 0.00–2.00%, <0.70 SD @ 1.500–4.000%, <7% CV @ 4.000–15.000%
Accuracy of automated differential compared with manual differential (per CLSI H20-A2)	NE, LY, MO ±3.00; EO ±1.5; BA ±1.0 or 10%, whichever is greater	neut ±2.0; lymph, mono ±3.0; eso and baso ±1.0 or 10%, whichever is greater	neut= ±2.0; lymph, mono= ±3.0; eso, baso= ±1.0 or 10%, whichever is greater
Interfering substances:	<ul style="list-style-type: none"> WBC RBC MCV or Hct Platelet Hemoglobin Reticulocytes 	<ul style="list-style-type: none"> possibly unlysed RBCs, NRBCs, cryoglobulin, cryofibrinogen, PLT clumps, giant PLTs, agglutinated white cells possibly agglutinated red cells, unlysed RBCs, elevated WBCs, more possibly agglutinated red cells, unlysed RBCs, elevated WBCs, more possibly giant PLTs, platelet clumps, microcytic RBCs, cryoglobulin, white or red cell fragments possibly lipids >62.5 mg/dL (lipemia) 	<ul style="list-style-type: none"> possibly precipitated elevated proteins, cryoglobulin, fragmented white cells, agglutinated white cells, lyse-resistant RBCs, giant PLTs, PLT clumps, unlysed particles >35 fL possibly very high WBC count, high concentration of very large platelets, autoagglutinins possibly very high WBC count, high concentration of very large platelets, autoagglutinins possibly platelet clumps, white cell fragments, very small red cells, red cell fragments, giant platelets, electronic noise possibly severe lipemia, heparin, certain unusual RBC abnormalities that resist lysing erythrocyte inclusions stained by new methylene blue, if sufficiently numerous within a sample, more
Interfering substances: differential	possibly unlysed RBCs, NRBCs, cryoglobulin, cryofibrinogen, PLT clumps, giant PLTs, agglutinated white cells	elevated triglycerides, precipitated elevated proteins, hypogranular granulocytes, agranular granulocytes, more	elevated triglycerides, precipitated elevated proteins, hypogranular granulocytes, agranular granulocytes, lyse-resistant red cells, very small or multipopulation lymphocytes
Throughput: max. CBCs per hour/Max. CBCs and differentials per hour	55 closed-tube samples, 60 open-tube samples/55 closed-tube samples, 60 open-tube samples	100/100	300 samples/300 samples
Minimum specimen volume open/Closed/Sample dead volume closed	16.7 μL/16.7 μL/1 mL standard tube or 375 μL MAP microtainer	165 μL/165 μL/400 μL or 250 μL with MAP tubes	165 μL/165 μL/250–400 μL
Microsample capability	yes	yes	yes
Instrument prepares microscope slides automatically/No. of automatic slide makers installed	no/—	no/—	no/—
Slide maker stainer sold separately or combined unit	sold separately	sold separately (\$165,000) or combined	—
Instrument archives patient data/Archiving is patient specific	yes/yes	yes/yes	yes/yes
Maximum amount of archived data accessible when system online	30,000 patient results	up to 60,000 patient results	up to 100,000 patient results including graphics
No. specimens for which numeric results saved in memory at once	30,000 patient results	up to 60,000 patient results	up to 100,000 patient results including graphics
No. specimens for which histo/cytogram results saved in memory at once	30,000 patient results	up to 60,000 patient results	up to 100,000 patient results including graphics
Instrument performs delta checks	no	yes	yes
Parameters for which flags may appear	definitive range, measurement range, normal range, edited sample, low confidence result, H and H check fail, action limits, reference limits	suspect messages: Abn hemoglobin, cellular inter, dimorphic reds, giant platelets, imm grans, left shift, LY blast, MO blast, NE blast, NRBC, RBC frag/micro, more	—
Flagging is operator selectable	operator and vendor selectable	operator and vendor selectable	yes
Tags and holds results for follow-up, confirmatory testing, or rerun	yes	yes	yes
Parameters for flags for holding samples defined by user or vendor	user	user	user and vendor
Scattergram display: cell-specific color	yes	yes (3D scatter and surface plots for flow modules)	yes (WBC, nRBC, reticulocyte)
Histogram display: color with thresholds	yes	yes	yes (WBC, RBC, PLT)
User interface can display choice of specimen or result information	yes	yes	yes
LIS interface formats supported	IEEE MIB, CLSI LIS01-A2, CLSI LIS02-A2	ASTM 1394-91, ASTM 1238-95, IEEE MIB, CLSI LIS01-A2	CLSI LIS01-A2
Information transferred via LIS interface	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for patient demographics and orders	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for patient demographics and orders
LOINC codes transmitted with all results/Sent in message to LIS/Listing of machine codes and corresponding LOINC for each test	no/no/no	yes/yes/yes	yes/yes/yes
Interface available or planned to automated specimen-handling system	no	Beckman Coulter, Roche	Beckman Coulter
Barcode symbologies read on specimen tube	Codabar, Code 39, Code 128, Interleaved 2 of 5, NW7, ISBT 128 (donor ID only)	Codabar, Code 39, Code 128, ASTM, Interleaved 2 of 5, NW7	Codabar, Code 39, Code 128, ASTM, Interleaved 2 of 5, NW7
Accommodates barcode placement per CLSI standard Auto02-A2	yes	yes	yes
No. of cleaning or maintenance reagents required/No. of routine liquid reagents required	1 preloaded bottle/2 (CBC, diff)	1 preloaded cube with up to 30 cleaning cycles/3 (CBC, diff, retic [optional])	1 preloaded cube with up to 30 cleaning cycles/3 (CBC/diff incl. Coulter Pit, retic, extended retic panel)
Time required for daily, weekly, monthly maintenance	daily: 5 min.; weekly: none; monthly: 15 min.	daily: none (autonomous); weekly: none; monthly: none	—
Onboard diagnostics for troubleshooting/Limited to software problems	yes/no	yes/no	yes/no
Manufacturer can perform diagnostics via modem	no	yes	yes
Distinguishing features (supplied by company)	small aspiration: 16.7 μL for a closed tube, 5-part differential instrument, ideal for infants and difficult draws; 50 tube load and walkaway capacity; integrated touchscreen and only one external reagent	delivers accurate, first-analysis results through VCS technology; MDW aids in identifying severity of infection, risk of sepsis as part of CBC-diff for ED patients; allows standardization across hospital and IDN networks	DataFusion uses real-time analytics and bypasses special modes, avoiding reruns; platelets achieve industry-leading accuracy, precision, and low backgrounds with first-pass technology; near-native state RBC analysis throughout the maturation cycle for direct read and accurate indices
†does not include slide maker stainers			
Note: a dash in lieu of an answer means company did not answer question or question is not applicable			

Part 5 of 12	CellaVision Scott Dunbar scott.dunbar@cellavision.com Durham, NC 919-806-4420 www.cellavision.com	CellaVision Scott Dunbar scott.dunbar@cellavision.com Durham, NC 919-806-4420 www.cellavision.com	Diatron MI Frank Matuszak frank.matuszak@diatron.com Medley, FL 833-228-7931 www.diatron.com
Name of instrument	CellaVision DC-1	CellaVision DM9600/DM1200	Abacus 3CP
First year installed in U.S./Outside U.S./No. of units sold Sept. 2022–Aug. 2023	2021/2019/—	2004/2003/—	2013/2013/—
No. units installed in U.S./Outside U.S./List price†	—	—/—/—\$135,000–\$175,000	56/1,039/\$20,385
Menu of chartable tests (standard menu: WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, neut %&#, mono, lymph, eos, baso)	mono, lymph, eos, baso; WBCs: seg, band, baso, eos, mono, lymph, promyelo, myelo, metamyelo, blast, lymph variant form, NRBC, giant PLT, PLT clumps; RBCs: polychromatic cells, hypochromatic cells, anisocytosis, microcytosis, macrocytosis, poikilocytosis; PLT: PLT estimate	neut %&#, mono, lymph, eos, baso, segmented, bands, blast, promyelocytes, myelocytes, metamyelocytes, variant lymphocytes, plasma cells, giant platelets, platelet clumps, erythroblasts, more	WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, mono, lymph, RDW%, MPV, GRA %&#
Tests submitted for 510(k) clearance/Tests in development	—	—	—
Tests for research use only	—	—	—
Tests unique to analyzer	—	analysis of cytocentrifuged samples, body fluids (reported parameters: neutrophils, eosinophils, lymphocytes, macrophages, including monocytes), other (basophils, lymphoma cells, atypical lymphocytes, blast cells, tumor cells)	—
Differential method(s) used	automated brightfield microscopy, image analysis, AI	light microscopy, image analysis, artificial neural networks	volumetric impedance method, light absorbance for HGB measurement
Analytical measurement range:	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV (fL) or Hct (%) • Reticulocytes 	—	0.95–83.45/0.44–7.74
Precision:	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV or Hct • Reticulocytes 	—	1.4–23.7/11–975
Accuracy of automated differential compared with manual differential (per CLSI H20-A2)	seg neut% $y = 0.9904x + 0.37$; lymph% $y = 0.998x + 0.12$; mono% $y = 0.9983x + 0.24$; eos% $y = 0.9912x + 0.03$; baso% $y = 0.9427 + 0.08$	seg neut% $y = 0.97x + 1.3$, $r = 0.987$; lymph% $y = 0.97x + 1.2$, $r = 0.979$; eos% $y = 1.01 + 0.1$, $r = 0.960$; mono% $y = 0.97 + 0.2$, $r = 0.941$; band neut% $y = 0.87x + 0.1$, $r = 0.917$	—
Interfering substances:	<ul style="list-style-type: none"> • WBC • RBC • MCV or Hct • Platelet • Hemoglobin • Reticulocytes 	—	>5 NRBCs/100 WBCs, PLT clumps, large PLTs WBC count $>50.0 \times 10^3/\mu\text{L}$ WBC count $>50.0 \times 10^3/\mu\text{L}$ PLT clumps/large PLTs WBC count $>50.0 \times 10^3/\mu\text{L}$, lipids $>270 \text{ mg/dL}$
Interfering substances: differential	—	—	>5 NRBCs/100 WBCs, PLT clumps, large PLTs
Throughput: max. CBCs per hour/Max. CBCs and differentials per hour	—/10 slides	—/35 differentials	60/60
Minimum specimen volume open/Closed/Sample dead volume closed	—	—	100 μL /100 μL /—
Microsample capability	—	—	no
Instrument prepares microscope slides automatically/No. of automatic slide makers installed	no/—	—	no/—
• Slide maker stainer sold separately or combined unit	sold separately	—	—
Instrument archives patient data/Archiving is patient specific	yes/no	yes/no	yes/no
Maximum amount of archived data accessible when system online	unlimited	unlimited	10,000 results
No. specimens for which numeric results saved in memory at once	1,500	~4,000	10,000 results
No. specimens for which histo/cytogram results saved in memory at once	—	—	10,000 results
Instrument performs delta checks	no	no	no
Parameters for which flags may appear	—	—	range flags, measurement condition flags, parameter warning, error flags
Flagging is operator selectable	—	—	no
Tags and holds results for follow-up, confirmatory testing, or rerun	yes	—	yes
Parameters for flags for holding samples defined by user or vendor	—	—	vendor
Scattergram display: cell-specific color	yes, can be imported from the LIS and displayed in the user interface	—	no
Histogram display: color with thresholds	—	—	yes
User interface can display choice of specimen or result information	yes	—	no
LIS interface formats supported	ASTM 1394-91	ASTM 1394	HL7, Diatron Serial Communication
Information transferred via LIS interface	numeric and flag results, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for patient demographics and orders	numeric and flag results, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for patient demographics and orders	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast
LOINC codes transmitted with all results/Sent in message to LIS/ Listing of machine codes and corresponding LOINC for each test	no/no/no	no/no/yes (for peripheral blood)	no/no/no
Interface available or planned to automated specimen-handling system	no	—	no
Barcode symbologies read on specimen tube	Codabar, Code 39, Code 128, Interleaved 2 of 5, DataMatrix, QR	Codabar, Code 39, Code 128, Interleaved 2 of 5, QR, DataMatrix	Codabar, Code 39, Code 128, Interleaved 2 of 5
Accommodates barcode placement per CLSI standard Auto02-A2	no	—	no
No. of cleaning or maintenance reagents required/No. of routine liquid reagents required	0/0	none/1	1/3
Time required for daily, weekly, monthly maintenance	daily: none; weekly: 5 min.	daily: none; weekly: 5 minutes	daily: 10 minutes; weekly: 15 minutes; monthly: 10 minutes
Onboard diagnostics for troubleshooting/Limited to software problems	yes/no	yes/no	no/no
Manufacturer can perform diagnostics via modem	no	no	no
Distinguishing features (supplied by company)	network use allows remote review of blood smears and linking of multiple CellaVision analyzers in multiple locations; WBC and other nucleated cells classified into 18 categories; RBC morphology characterized for 6 categories; leverages high-speed robotics and digital imaging to automatically locate and capture high-quality images of cells	fully automated slide handling and oiling available in 2 models; performs peripheral blood and body fluid differentials; WBC and other nucleated cells classified into 18 categories; RBC morphology characterized for 22 categories; network use allows remote review of blood smears and linking of multiple analyzers in multiple locations	reliable 3-part diff analyzers with 2 sampling modes (cap-piercing mode for closed-tube sampling and another for open tubes); operator safety: self-cleaning procedures minimize daily maintenance; user-friendly, easy-to-operate, high-resolution touchscreen; USB and barcode option to load QC target values; capable of reading QR codes for reference input data; confidence: system uses easy-to-understand warning messages and sample flags, employs a comprehensive QC SW package

†does not include slide maker stainers

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

Part 6 of 12	Diatron MI Frank Matuszak frank.matuszak@diatron.com Medley, FL 833-228-7931 www.diatron.com	HORIBA Medical Susan Behnke susan.behnke@horiba.com Irvine, CA 888-903-5001 ext. 4553 www.horiba.com/us/en/medical	HORIBA Medical Susan Behnke susan.behnke@horiba.com Irvine, CA 888-903-5001 ext. 4553 www.horiba.com/us/en/medical
Name of instrument	Abacus 5	Pentra 60C+ Hematology Analyzer	Pentra XL 80
First year installed in U.S./Outside U.S./No. of units sold Sept. 2022–Aug. 2023	2013/2009/—	2000/2000/—	2004/2003/—
No. units installed in U.S./Outside U.S./List price†	35/3,120/\$31,850	>350/>600/\$47,313	>250/>900/\$76,808
Menu of chartable tests (standard menu: WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, neut %&#, mono, lymph, eos, baso)	standard menu plus: RDW-SD, RDW-CV, MPV	standard menu plus: RDW, MPV	standard menu plus: automatic dilution of over-range results (WBC × 3, RBC/Hgb/PLT × 2), RDW, MPV
Tests submitted for 510(k) clearance/Tests in development	—	—	—
Tests for research use only	—	PCT, PDW, ATL, LIC	PCT, PDW, ATL, LIC
Tests unique to analyzer	—	—	automatic dilution protocol
Differential method(s) used	laser light scatter technology, impedance method, light absorbance	DHSS technology combining cytochemistry, focused flow impedance, light absorbance principles of measurement	DHSS technology combining cytochemistry, focused flow impedance, light absorbance
Analytical measurement range:	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV (fL) or Hct (%) • Reticulocytes 	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV (fL) or Hct (%) • Reticulocytes 	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV (fL) or Hct (%) • Reticulocytes
Precision:	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV or Hct • Reticulocytes 	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV or Hct • Reticulocytes 	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV or Hct • Reticulocytes
Accuracy of automated differential compared with manual differential (per CLSI H20-A2)	—	neut% r=0.99, lymph% r=0.98, mono% r=0.96, eos% r=0.89, baso% r=0.54	neut% r=0.99, lymph% r=0.98, mono% r=0.96, eos% r=0.89, baso% r=0.54
Interfering substances:	<ul style="list-style-type: none"> • WBC • RBC • MCV or Hct • Platelet • Hemoglobin • Reticulocytes 	<ul style="list-style-type: none"> • WBC • RBC • MCV or Hct • Platelet • Hemoglobin • Reticulocytes 	<ul style="list-style-type: none"> • WBC • RBC • MCV or Hct • Platelet • Hemoglobin • Reticulocytes
Interfering substances: differential	>5 NRBCs/100 WBCs, PLT clumps, large PLTs	NRBCs, PLT clumps, lyse-resistant RBCs	NRBCs, PLT clumps, lyse-resistant RBCs
Throughput: max. CBCs per hour/Max. CBCs and differentials per hour	60/60	60/60	80/80
Minimum specimen volume open/Closed/Sample dead volume closed	110 µL/110 µL/—	30 µL for CBC, 53 µL for CBC and differential/30 µL for CBC and 53 µL for CBC and differential/—	30 µL for CBC/53 µL for CBC and differential/0.5 mL
Microsample capability	no	yes	yes
Instrument prepares microscope slides automatically/No. of automatic slide makers installed	no/—	no/—	no/—
• Slide maker stainer sold separately or combined unit	—	—	—
Instrument archives patient data/Archiving is patient specific	yes/no	yes/yes	yes/yes
Maximum amount of archived data accessible when system online	100,000 results	10,000 sample results with graphics and numerical data	10,000 sample results with graphics and numerical data
No. specimens for which numeric results saved in memory at once	100,000 results	unlimited with backup	unlimited with backup
No. specimens for which histo/cytogram results saved in memory at once	100,000 results	unlimited with backup	unlimited with backup
Instrument performs delta checks	no	no	yes
Parameters for which flags may appear	pathological flags, lab limits (normal ranges), reagents alert, instrument alerts	all CBC and diff parameters have flags	all CBC and diff parameters have flags
Flagging is operator selectable	no	no	no
Tags and holds results for follow-up, confirmatory testing, or rerun	yes	yes	yes
Parameters for flags for holding samples defined by user or vendor	vendor	vendor	vendor
Scattergram display: cell-specific color	yes	yes	yes
Histogram display: color with thresholds	yes	yes	yes
User interface can display choice of specimen or result information	no	no	no
LIS interface formats supported	HL7, Diatron Serial Protocol	ASTM 1394 and 1238, HL7	proprietary, ASTM 1394 and 1238, HL7
Information transferred via LIS interface	histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, LIS to instrument—broadcast	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast
LOINC codes transmitted with all results/Sent in message to LIS/Listing of machine codes and corresponding LOINC for each test	no/no/no	no/no/no	no/no/no
Interface available or planned to automated specimen-handling system	no	no	no
Barcode symbologies read on specimen tube	Codabar, Code 39, Code 128, Interleaved 2 of 5	Codabar, Code 39, Code 128, ASTM, Interleaved 2 of 5	Codabar, Code 39, Code 128, ASTM, Interleaved 2 of 5
Accommodates barcode placement per CLSI standard Auto02-A2	yes	yes	yes
No. of cleaning or maintenance reagents required/No. of routine liquid reagents required	1/3	2/5	2/5
Time required for daily, weekly, monthly maintenance	daily: 10 minutes; weekly: 15 minutes; monthly: 10 minutes	daily: 10 minutes; weekly: 15 minutes; monthly: 15 minutes	daily: 10 minutes; weekly: 15 minutes; monthly: 15 minutes
Onboard diagnostics for troubleshooting/Limited to software problems	no/no	yes/yes	no/yes
Manufacturer can perform diagnostics via modem	no	yes, with Data Manager	no
Distinguishing features (supplied by company)	compact, benchtop 5-part laser WBC differential analyzer provides accurate and precise results; 2 sampling modes (cap-piercing mode for closed-tube sampling and another for open tubes); field upgradeable with optional autosampler with built-in barcode reader; sample capacity: 100 tubes; user friendly and easy to operate: easy-to-follow, intuitive icon user interface	reliable 5-part WBC differential technology; mean time between failures more than 200 days; small footprint; small sample size of 53 µL; can connect to Lite ^{DM} Patient Data Manager, which interfaces with third-party medical devices	compact 5-part differential instrument with autoloader and autodilution capability, auto rerun feature, autovalidation; can connect to Lite ^{DM} Patient Data Manager, which interfaces with third-party medical devices

†does not include slide maker stainers

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

Part 7 of 12	Mindray Anna Chen a.chen@mindray.com Redmond, WA 425-881-0361 ext. 3305 www.mindraynorthamerica.com	Mindray Anna Chen a.chen@mindray.com Redmond, WA 425-881-0361 ext. 3305 www.mindraynorthamerica.com	PixCell Medical Ryan Venturi info@pixcell-medical.com Longmont, CO 888-615-4122 www.pixcell-medical.com
Name of instrument	BC-5390	BC-3600	HemoScreen
First year installed in U.S./Outside U.S./No. of units sold Sept. 2022–Aug. 2023	2016/2012/—	2015/2011/—	2018/2016/—
No. units installed in U.S./Outside U.S./List price†	24/1,612/—	78/4,120/—	—
Menu of chartable tests (standard menu: WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, neut %&#, mono, lymph, eos, baso)	standard menu plus: RDW-CV, RDW-SD, MPV, mono %&#, lymph %&#, eos %&#, baso %&#	WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, gran %&#, lymph %&#, mid %&#, MPV, RDW	standard menu plus: MPV, RDW
Tests submitted for 510(k) clearance/Tests in development	—	none/none	—
Tests for research use only	—	none	—
Tests unique to analyzer	—	none	—
Differential method(s) used	flow cytometry, light scatter	impedance method for WBC, RBC, MCV, RDW, PLT, MPV and WBC 3-part differential determination, colorimetric method for HGB determination	digital microscopy and computer-vision algorithms
Analytical measurement range:	<ul style="list-style-type: none"> • WBC count/RBC count 0.3–200/0.2–8.0 • Hemoglobin/Platelet 0.5–25/5–2,000 • MCV (fL) or Hct (%) 2–75% (Hct) • Reticulocytes — 	<ul style="list-style-type: none"> • WBC count/RBC count 0.3–99.9/0.20–7.99 • Hemoglobin/Platelet 1.0–24.9/10–999 • MCV (fL) or Hct (%) — • Reticulocytes — 	<ul style="list-style-type: none"> • WBC count/RBC count 0.5–80.0 × 10³/μL/1.0–8.8 × 10⁶/μL • Hemoglobin/Platelet 3.0–25.0 g/dL/20–800 × 10³ /μL • MCV (fL) or Hct (%) 9.0–78.0% (Hct) • Reticulocytes —
Precision:	<ul style="list-style-type: none"> • WBC count/RBC count <0.15 (SD) or 3.0% (CV)/<1.5% • Hemoglobin/Platelet <1.5%/<7.5 (SD) or 5% (CV) • MCV or Hct <1.5% (MCV) • Reticulocytes — 	<ul style="list-style-type: none"> • WBC count/RBC count WBC ≥4.0: ≤3.0% CV%; 1.0 ≤WBC ≤2.0: ≤7.0% CV%/≤2.5% CV% • Hemoglobin/Platelet ≤2.0% CV%/PLT ≥150: ≤6.0% CV%; 20 ≤PLT≤ 50: ≤20.0% CV% • MCV or Hct ≤2.0 CV% (MCV), ≤2.5% CV% (Hct) • Reticulocytes — 	<ul style="list-style-type: none"> • WBC count/RBC count 4.0%/1.5% • Hemoglobin/Platelet 1.6%/3.5% • MCV or Hct 1.6% (Hct) • Reticulocytes —
Accuracy of automated differential compared with manual differential (per CLSI H20-A2)	neu%: ±5.00 or ±10.0%; lym%: ±4.00 or ±10.0%; mon%: ±3.00 or ±10.0%; eos%: ±2.00 or ±10.0%; bas%: ±1.00 or ±10.0%	—	—
Interfering substances:	<ul style="list-style-type: none"> • WBC platelet aggregation, lyse-resistant erythrocytes, erythroblasts, cold agglutinin, cryoglobulin, giant platelets, lipemia, chylomicronemia • RBC cold agglutinin, fragmented erythrocytes, leukocytosis, giant platelets • MCV or Hct RBC fragments, very high WBC count, high concentration of very large platelets, microclots, RBC rouleaux or agglutinates (autoagglutination) • Platelet PLT aggregation or PLT satellitism, giant platelets, microcytosis, fragmented erythrocytes • Hemoglobin leukocytosis, lipemia, chylomicronemia, abnormal protein • Reticulocytes — 	<ul style="list-style-type: none"> • WBC certain unusual RBC abnormalities that resist lysing, nucleated RBCs, fragmented WBCs, unlysed particles, very large or aggregated platelets • RBC very high WBC count, high concentration of very large platelets, agglutinated RBCs and smaller RBC • MCV or Hct very high WBC count, high concentration of very large platelets, agglutinated RBCs, RBC fragments • Platelet very small red blood cells near the upper PLT threshold, cell fragments, clumped platelets as with oxalate or heparin, platelet fragments or cellular debris near the lower platelet threshold • Hemoglobin very high WBC count, severe lipemia, certain unusual RBC abnormalities that resist lysing, anything that increases the turbidity of the sample such as elevated levels of triglycerides • Reticulocytes — 	<ul style="list-style-type: none"> • WBC no significant interference up to 50 mg/dL bilirubin, 729 mg/dL triglycerides • RBC no significant interference up to 50 mg/dL bilirubin, 729 mg/dL triglycerides • MCV or Hct no significant interference up to 50 mg/dL bilirubin, 729 mg/dL triglycerides • Platelet no significant interference up to 30 mg/dL bilirubin, 729 mg/dL triglycerides • Hemoglobin no significant interference up to 50 mg/dL bilirubin, 729 mg/dL triglycerides • Reticulocytes —
Interfering substances: differential	lysis-resistant RBC, NRBC, PLT aggregates, giant PLT	known factors that affect the WBC count as listed above, high triglycerides that can affect lysing	—
Throughput: max. CBCs per hour/Max. CBCs and differentials per hour	60/60	60/60	20/10
Minimum specimen volume open/Closed/Sample dead volume closed	100 μL/33 μL, predilute 20 μL/1 mL	100 μL/21 μL, predilute 20 μL/1 mL	40 μL/40 μL/—
Microsample capability	yes	yes	yes
Instrument prepares microscope slides automatically/No. of automatic slide makers installed	no/—	no/—	no/—
• Slide maker stainer sold separately or combined unit	—	—	—
Instrument archives patient data/Archiving is patient specific	yes/yes	no/no	yes/no
Maximum amount of archived data accessible when system online	100,000 results	40,000 results	1,000
No. specimens for which numeric results saved in memory at once	100,000	40,000	1,000
No. specimens for which histo/cytogram results saved in memory at once	100,000	40,000	—
Instrument performs delta checks	yes	no	no
Parameters for which flags may appear	immature gran? Abn/atypical lym? RBC agglutination? iron deficiency? PLT clump? NRBC? blasts? RBC lyse resist? leukocytosis, leukopenia, anemia, anisocytosis, more operator and vendor selectable	—	all CBC and differential parameters have flags; pathological flags, range flags, measurement condition flags, parameter warning, error flags
Flagging is operator selectable	yes	no	no
Tags and holds results for follow-up, confirmatory testing, or rerun	yes	no	no
Parameters for flags for holding samples defined by user or vendor	—	—	vendor
Scattergram display: cell-specific color	yes	no	no
Histogram display: color with thresholds	yes	yes	no
User interface can display choice of specimen or result information	yes	no	yes
LIS interface formats supported	HL7	HL7	HL7, POCT-1A
Information transferred via LIS interface	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for patient demographics and orders	numeric and flag results, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast	numeric and flag results, instrument to LIS; host query for patient demographics and orders
LOINC codes transmitted with all results/Sent in message to LIS/ Listing of machine codes and corresponding LOINC for each test	yes/yes/yes	yes/yes/no	yes/yes/yes
Interface available or planned to automated specimen-handling system	none	—	no
Barcode symbologies read on specimen tube	Codabar, Code 39, Code 93, Code 128, Interleaved 2 of 5, UPC/EAN	Codabar, Code 39, Code 128	Codabar, Code 39, Code 128, Interleaved 2 of 5
Accommodates barcode placement per CLSI standard Auto02-A2	—	—	—
No. of cleaning or maintenance reagents required/No. of routine liquid reagents required	1/4	1/4	0/0
Time required for daily, weekly, monthly maintenance	daily: <10 minutes	daily: <10 minutes	none
Onboard diagnostics for troubleshooting/Limited to software problems	yes/no	yes/no	yes/no
Manufacturer can perform diagnostics via modem	yes	no	yes
Distinguishing features (supplied by company)	60 QC files; maximum 40 samples autoloader capacity, sample adaptors for pediatric and predilution samples; operation software with built-in data-management functions, 3 modes of operation: autoloader and opened and closed tube; customizable patient reports; only 1 maintenance reagent	10.4-inch all-in-one Glance color touchscreen, touch-button maintenance procedures, and low sample requirement; 40,000 patient results storage, close-tube sampling, open-tube sampling for pediatric samples; 3 types of sample adaptors, barcoded reagent, and 5 minutes daily start-up and maintenance	cartridge-based 5-part differential CBC analyzer FDA cleared for POC use; easy to use—no calibration, reagent handling, or routine maintenance required; lab-quality results obtained within 5 minutes from a drop of venous or capillary blood

†does not include slide maker stainers

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

Part 8 of 12	Scopio Labs Lianne Trantz lianne.trantz@scopiolabs.com Tel Aviv, Israel +972 50-272-7929 scopiolabs.com	Siemens Healthineers Sheryl Kirk sheryl.kirk@siemens-healthineers.com Tarrytown, NY 469-390-7319 siemens-healthineers.com/hematology	Siemens Healthineers Sheryl Kirk sheryl.kirk@siemens-healthineers.com Tarrytown, NY 469-390-7319 siemens-healthineers.com/hematology
Name of instrument	X100 / X100HT with Full-Field Peripheral Blood Smear (PBS) Application	Advia 360 Hematology System	Advia 560/560AL Hematology System
First year installed in U.S./Outside U.S./No. of units sold Sept. 2022–Aug. 2023 No. units installed in U.S./Outside U.S./List price†	— —	2015/2015/— —	2015/2015/— —
Menu of chartable tests (standard menu: WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, neut %&#, mono, lymph, eos, baso)	mono, lymph, eos, baso, WBC: seg, band, promyelo, myelo, metamyelo, blast, atypical lymph, abparent lymph, large granular lymph, plasma cells, NRBC; PLT: estimate	WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, lymph, MID, GRA, MID%, GRA%, MPV, RDW-CV	WBC, RBC, Hb, Hct, MCV, MCH, PLT, neut %&#, mono, lymph, eos, baso
Tests submitted for 510(k) clearance/Tests in development Tests for research use only	— X100 / X100HT with full-field bone marrow aspirate (BMA) application	— —	— —
Tests unique to analyzer	—	—	—
Differential method(s) used	computational photography, image analysis, artificial intelligence	volumetric impedance change for WBC, RBC, PLT; lytic reagents with impedance method for 3 subpopulations; spectrophotometry for HGB	volumetric impedance change for WBC, RBC, PLT; light scattering baso measurement; light scattering 4-diff measurement LYM, MON, NEU, EOS; spectrophotometry for HGB
Analytical measurement range:			
• WBC count/RBC count	—	0.0–85.0/0.00–8.00	0.20–100.0/0.36–7.19
• Hemoglobin/Platelet	—	0.0–25.0/0–1,000	1.10–22.2/15.0–1,000
• MCV (fL) or Hct (%)	—	50–120 (MCV)	50–120 (MCV)
• Reticulocytes	—	—	—
Precision:			
• WBC count/RBC count	—	<4.0%/<2.5%	<3.4%/<2.0%
• Hemoglobin/Platelet	—	<2.4%/<7.0%	<2.4%/<7.0%
• MCV or Hct	—	<2.0% (MCV)	<2.0% (MCV)
• Reticulocytes	—	—	—
Accuracy of automated differential compared with manual differential (per CLSI H20-A2)	—	—	—
Interfering substances:			
• WBC	—	>5 NRBCs/100 WBCs, PLT clumps, large PLTs	>5 NRBCs/100 WBCs, PLT clumps, large PLTs
• RBC	—	WBC count >75.0 × 103/μL	WBC count >75.0 × 103/μL
• MCV or Hct	—	WBC count >75.0 × 103/μL	WBC count >75.0 × 103/μL
• Platelet	—	PLT clumps, large PLTs	PLT clumps, large PLTs
• Hemoglobin	—	WBC count >75.0 × 103/μL, lipids >280 mg/dL	WBC count >75.0 × 103/μL, lipids >280 mg/dL
• Reticulocytes	—	—	—
Interfering substances: differential	—	> 5 NRBCs/100 WBCs, PLT clumps, large PLTs	> 5 NRBCs/100 WBCs, PLT clumps, large PLTs
Throughput: max. CBCs per hour/Max. CBCs and differentials per hour	—	60/60	60/60
Minimum specimen volume open/Closed/Sample dead volume closed	—	100 μL/100 μL/—	100 μL/100 μL/—
Microsample capability	—	no	yes
Instrument prepares microscope slides automatically/No. of automatic slide makers installed	—	no/—	no/—
• Slide maker stainer sold separately or combined unit	—	sold separately	sold separately
Instrument archives patient data/Archiving is patient specific	—	yes/no	yes/no
Maximum amount of archived data accessible when system online	—	100,000 results	100,000 results
No. specimens for which numeric results saved in memory at once	X100HT: 45,000; X100: 15,000	100,000	100,000
No. specimens for which histo/cytogram results saved in memory at once	—	100,000	100,000
Instrument performs delta checks	—	yes	yes
Parameters for which flags may appear	—	out-of-range flags, measurement condition flags (warnings); flagging on WBC and HGB channels; flagging on RBC/PLT channel/warning flags of differential parameters	pathological (diagnostic) flags; lab limits (normal ranges); reagents alert (3 measurement pre-alert online reagent replacement); instrument alerts, internal buffer for reagents
Flagging is operator selectable	yes	operator and vendor selectable	—
Tags and holds results for follow-up, confirmatory testing, or rerun	yes	yes	yes
Parameters for flags for holding samples defined by user or vendor	user	user	user
Scattergram display: cell-specific color	—	yes	yes
Histogram display: color with thresholds	—	yes	yes
User interface can display choice of specimen or result information	yes	yes	yes
LIS interface formats supported	HL7	proprietary	proprietary
Information transferred via LIS interface	numeric and flag results, instrument to LIS; host query for patient demographics and orders	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for patient demographics and orders	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for patient demographics and orders
LOINC codes transmitted with all results/Sent in message to LIS/ Listing of machine codes and corresponding LOINC for each test	yes/yes/—	yes/yes/yes	yes/yes/yes
Interface available or planned to automated specimen-handling system	—	no	no
Barcode symbologies read on specimen tube	—	Codabar, Code 39, Code 128, ASTM, Interleaved 2 of 5	Codabar, Code 39, Code 128, ASTM, Interleaved 2 of 5
Accommodates barcode placement per CLSI standard Auto02-A2	—	no	no
No. of cleaning or maintenance reagents required/No. of routine liquid reagents required	—	1/3	1/3
Time required for daily, weekly, monthly maintenance	—	daily: automated; weekly: 15–20 minutes	daily: automated; weekly: 15–20 minutes
Onboard diagnostics for troubleshooting/Limited to software problems	yes/no	yes/no	no/no
Manufacturer can perform diagnostics via modem	—	yes	yes
Distinguishing features (supplied by company)	full-field imaging provides a digital copy of the patient sample from the monolayer to the feathered edge; built-in remote and IT capabilities utilize the laboratory's own IT infrastructure	measures 16 parameters including 3-part WBC differential; efficient manual sampling of open and closed tubes; 60 samples per hour, volume as low as 100 μL	60 samples per hour, volume as low as 110 μL; measures 20 parameters and employs laser-based optical measurement to provide a 5-part WBC differential; aids in interpreting disease state information with 2 scattergrams and 2 histograms per result

† does not include slide maker stainers

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

Part 9 of 12	Sight Diagnostics Kevin Lee sales-us@sightdx.com Brooklyn, NY www.sightdx.com/us	Sysmex America Madelaine Dintelman communications@sysmex.com Lincolnshire, IL 800-379-7639 www.sysmex.com/us	Sysmex America Madelaine Dintelman communications@sysmex.com Lincolnshire, IL 800-379-7639 www.sysmex.com/us	
Name of instrument	Sight OLO	pocH-100i	XN-330, XN-430, XN-530	
First year installed in U.S./Outside U.S./No. of units sold Sept. 2022–Aug. 2023	2019/2018/—	2004/2003/—	2017/2016/—	
No. units installed in U.S./Outside U.S./List price†	—	>2,000/>5,000/\$19,085	>650/—/\$71,000–\$106,000	
Menu of chartable tests (standard menu: WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, neut %&#, mono, lymph, eos, baso)	standard menu plus: RDW, neut %, mono %, lymph %, eos %, baso %	WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, neut %&#, lymph %&#, MXD %&#, RDW-SD, RDW-CV, MPV	standard menu plus: IG %&#, MPV, RDW-CV, RDW-SD	
Tests submitted for 510(k) clearance/Tests in development	—	—	—	
Tests for research use only	—	—	—	
Tests unique to analyzer	—	absolute neutrophil count	immature granulocyte on every sample; models available through authorized distributors for POL and clinic market	
Differential method(s) used	digital microscopy and computer-vision algorithms	direct current	fluorescent flow cytometry with side fluorescent light, forward-scattered and side-scattered light	
Analytical measurement range:	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV (fL) or Hct (%) • Reticulocytes 	0.18–100.13 10 ³ /μL/1.22–7.55 10 ⁶ /μL 4.0–21.75 g/dL/18–1,028.5 10 ³ /μL 15.2–63.7% (Hct) —	1.0–99.9/0.3–7.0 0.1–25.0/10–999 10–60 (Hct) —	
Precision:	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV or Hct • Reticulocytes 	4.1%/2.1% 1.9%/4.8% 2.2% (Hct) —	≤3.5%/≤2.0% ≤1.5%/≤6.0% ≤2.0% (Hct) —	<3.0%/<1.5% <1.0%/<4.0% <1.5% (Hct) —
Accuracy of automated differential compared with manual differential (per CLSI H20-A2)	—	neut% r=0.98, lymph% r=0.99, MXD% r=0.75, neut# r=1.00, lymph# r=1.00, MXD# r=0.90	—	
Interfering substances:	<ul style="list-style-type: none"> • WBC • RBC • MCV or Hct • Platelet • Hemoglobin • Reticulocytes 	monoclonal gammopathies, lipemia, chylemia, hyperbilirubinemia, sulfhemoglobinemia, methemoglobinemia, carboxyhemoglobinemia, more monoclonal gammopathies, lipemia, chylemia, hyperbilirubinemia, sulfhemoglobinemia, methemoglobinemia, carboxyhemoglobinemia, more monoclonal gammopathies, lipemia, chylemia, hyperbilirubinemia, sulfhemoglobinemia, methemoglobinemia, carboxyhemoglobinemia, more monoclonal gammopathies, lipemia, chylemia, hyperbilirubinemia, sulfhemoglobinemia, methemoglobinemia, carboxyhemoglobinemia, more monoclonal gammopathies, lipemia, chylemia, hyperbilirubinemia, sulfhemoglobinemia, methemoglobinemia, carboxyhemoglobinemia, more —	lyse-resistant RBCs, cold agglutinins, cryoglobulins, PLT aggregation, NRBCs cold agglutinins, severe microcytosis, fragmented RBCs cold agglutinins, fragmented RBCs, leukocytosis (>100,000/μL) PLT aggregation, giant PLTs, microcytic RBCs, fragmented RBCs severe lipemia, abnormal protein, leukocytosis (>100,000/μL) —	no significant interference up to: 39.4 mg/dL for bilirubin C, 37.4 mg/dL for bilirubin F, 996 mg/dL for hemolysis, 30.320 OD for intralipid, 2,880 OD for chyle no significant interference up to: 39.4 mg/dL for bilirubin C, 37.4 mg/dL for bilirubin F, 996 mg/dL for hemolysis, 30.320 OD for intralipid, 2,880 OD for chyle no significant interference up to: 39.4 mg/dL for bilirubin C, 37.4 mg/dL for bilirubin F, 996 mg/dL for hemolysis, 30.320 OD for intralipid, 2,880 OD for chyle no significant interference up to: 39.4 mg/dL for bilirubin C, 37.4 mg/dL for bilirubin F, 996 mg/dL for hemolysis, 30.320 OD for intralipid, 2,880 OD for chyle no significant interference up to: 39.4 mg/dL for bilirubin C, 37.4 mg/dL for bilirubin F, 199 mg/dL for hemolysis —
Interfering substances: differential	monoclonal gammopathies, lipemia, chylemia, hyperbilirubinemia, sulfhemoglobinemia, methemoglobinemia, carboxyhemoglobinemia, more	—	—	
Throughput: max. CBCs per hour/Max. CBCs and differentials per hour	5/5	30/30	60/60	
Minimum specimen volume open/Closed/Sample dead volume closed	27 μL/—/—	15 μL/15 μL/15 μL	25 μL/25 μL/1 mL	
Microsample capability	yes	yes	yes	
Instrument prepares microscope slides automatically/No. of automatic slide makers installed	no/—	no/—	no/—	
• Slide maker stainer sold separately or combined unit	—	—	—	
Instrument archives patient data/Archiving is patient specific	yes/no	yes/yes	yes/yes	
Maximum amount of archived data accessible when system online	50,000 results	100 samples	10,000 patient results	
No. specimens for which numeric results saved in memory at once	50,000	100 samples	10,000	
No. specimens for which histo/cytogram results saved in memory at once	—	100 samples	10,000	
Instrument performs delta checks	no	yes	yes	
Parameters for which flags may appear	IG, blasts, atypical LYM, nRBCs, PLT clumps, giant PLT, RBC agglutination, high reticulocytes, low reticulocytes, WBC agglutination, dual RBC population, more	flagging system suggests sample error for WBC, RBC, PLT parameters	abnormal (user-defined ex: neutrophilia, anisocytosis) and/or suspect (analyzer-generated ex: left shift?, PLT clumps?) flags for all reportable parameters deemed abnormal per lab's protocol, more	
Flagging is operator selectable	no	no	operator and vendor selectable	
Tags and holds results for follow-up, confirmatory testing, or rerun	no	no	yes	
Parameters for flags for holding samples defined by user or vendor	vendor	vendor	—	
Scattergram display: cell-specific color	no	no	yes	
Histogram display: color with thresholds	no	yes	yes	
User interface can display choice of specimen or result information	yes	yes	yes	
LIS interface formats supported	HL7, POCT1-A2	RS-232C	XN series ASTM 1381-95/ASTM 1894-97 or XN series ASTM 1381-02/ASTM 1894-97	
Information transferred via LIS interface	numeric and flag results, instrument to LIS	numeric and flag results, histograms and scatterplots, patient demographics, orders, host query for patient demographics and orders	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for demographics and orders	
LOINC codes transmitted with all results/Sent in message to LIS/ Listing of machine codes and corresponding LOINC for each test	no/no/no	no/no/yes	yes/yes/no	
Interface available or planned to automated specimen-handling system	none	—	no	
Barcode symbologies read on specimen tube	Codabar, Code 39, Code 128, Interleaved 2 of 5, QR	Code 39, Code 128, ASTM, ITF, NW7, JAN-8, JAN-13	Codabar, Code 39, Code 128, ITF, NW7, ISBT 128, JAN/EAN/UPC	
Accommodates barcode placement per CLSI standard Auto02-A2	—	no	yes	
No. of cleaning or maintenance reagents required/No. of routine liquid reagents required	0/0	1/2	1/4	
Time required for daily, weekly, monthly maintenance	daily: none; weekly: none; monthly: none	daily: <2 minutes; weekly: <2 minutes; monthly: <2 minutes	daily: 2 minutes; weekly: 15 minutes	
Onboard diagnostics for troubleshooting/Limited to software problems	yes/no	yes/no	yes/no	
Manufacturer can perform diagnostics via modem	yes	yes	yes	
Distinguishing features (supplied by company)	2 drops of blood (27 μL) from finger prick or venous sample for patients 3 months or older with any clinical condition; results in less than 10 min. without the need for user calibration, external reagents management, or routine maintenance; minimal training required, touchscreen instructions, automatic internal QC and fail-safe system	hydrodynamic focusing, automatic floating discriminators, ISBT-compliant, data-masking software for blood donor centers; optional upgrade to pocHi Plus or pocHi Linc available (data manager and small LIS); ability to directly link to EMR	6-part WBC differential including immature granulocyte for smaller labs; onboard rules provide efficient repeat testing based on user's criteria; standardization of reagents and controls with existing Sysmex XN-Series analyzers; BeyondCare Quality Monitor for Hematology, a QC and calibration management program standard on all models	

†does not include slide maker stainers

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Part 10 of 12	Sysmex America Madelaine Dintelman communications@sysmex.com Lincolnshire, IL 800-379-7639 www.sysmex.com/us	Sysmex America Jill Crist communications@sysmex.com Lincolnshire, IL 800-379-7639 www.sysmex.com/us	Sysmex America Jill Crist communications@sysmex.com Lincolnshire, IL 800-379-7639 www.sysmex.com/us
Name of instrument First year installed in U.S./Outside U.S./No. of units sold Sept. 2022–Aug. 2023 No. units installed in U.S./Outside U.S./List price†	XN-350, XN-450, XN-550 2017/2015/— >1,450/>3,200/\$75,000–\$110,000	XN-1000 Series 2012/2011/>175 >1,500/>450/\$202,667	XN-2000 Series 2012/2011/>95 >1,000/>450/\$402,667
Menu of chartable tests (standard menu: WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, neut %&#, mono, lymph, eos, baso)	standard menu plus: IG %&#, MPV, RDW-CV, RDW-SD	standard menu plus: NRBC %&#, IG %&#, MPV, PLT-F, IPF, RDW-CV, RDW-SD, retic %&#, IRF, RET-He; body fluids: RBC-BF, TC-BF, WBC-BF, MN %&#, PMN %&#	standard menu plus: NRBC %&#, IG %&#, MPV, PLT-F, IPF, RDW-CV, RDW-SD, retic %&#, IRF, RET-He; body fluids: RBC-BF, TC-BF, WBC-BF, MN %&#, PMN %&#
Tests submitted for 510(k) clearance/Tests in development	—	—	—
Tests for research use only	—	—	—
Tests unique to analyzer	immature granulocyte on every sample, optional reticulocyte and body fluid licenses available	IG %&#, PLT-F, IPF, RET-He; body fluids: two-part differential MN %&#, PMN %&#	IG %&#, PLT-F, IPF, RET-He; body fluids: two-part differential MN %&#, PMN %&#
Differential method(s) used	fluorescent flow cytometry with side fluorescent light, forward-scattered and side-scattered light	fluorescent flow cytometry with side fluorescent light, forward-scattered and side-scattered light	fluorescent flow cytometry with side fluorescent light, forward-scattered and side-scattered light
Analytical measurement range:	<ul style="list-style-type: none"> WBC count/RBC count Hemoglobin/Platelet MCV (fL) or Hct (%) Reticulocytes 	<ul style="list-style-type: none"> WBC count/RBC count Hemoglobin/Platelet MCV or Hct Reticulocytes 	<ul style="list-style-type: none"> WBC count/RBC count Hemoglobin/Platelet MCV or Hct Reticulocytes
Precision:	<ul style="list-style-type: none"> WBC count/RBC count Hemoglobin/Platelet MCV or Hct Reticulocytes 	<ul style="list-style-type: none"> WBC count/RBC count Hemoglobin/Platelet MCV or Hct Reticulocytes 	<ul style="list-style-type: none"> WBC count/RBC count Hemoglobin/Platelet MCV or Hct Reticulocytes
Accuracy of automated differential compared with manual differential (per CLSI H20-A2)	—	—	—
Interfering substances:	<ul style="list-style-type: none"> WBC RBC MCV or Hct Platelet Hemoglobin Reticulocytes 	<ul style="list-style-type: none"> WBC RBC MCV or Hct Platelet Hemoglobin Reticulocytes 	<ul style="list-style-type: none"> WBC RBC MCV or Hct Platelet Hemoglobin Reticulocytes
Interfering substances: differential	—	—	—
Throughput: max. CBCs per hour/Max. CBCs and differentials per hour Minimum specimen volume open/Closed/Sample dead volume closed Microsample capability Instrument prepares microscope slides automatically/No. of automatic slide makers installed • Slide maker stainer sold separately or combined unit	60/60 25 µL/25 µL/1 mL yes no/—	100/100 88 µL/88 µL/1 mL yes no/—	200/200 88 µL/88 µL/1 mL yes no/—
Instrument archives patient data/Archiving is patient specific Maximum amount of archived data accessible when system online No. specimens for which numeric results saved in memory at once No. specimens for which histo/cytogram results saved in memory at once Instrument performs delta checks Parameters for which flags may appear	yes/yes 100,000 patient results 100,000 100,000 yes abnormal (user-defined ex: neutrophilia, anisocytosis) and/or suspect (analyzer-generated ex: left shift?, PLT clumps?) flags for all reportable parameters deemed abnormal per lab's protocol, more	yes/yes 100,000 samples 100,000 100,000 yes abnormal (user-defined ex: neutrophilia, anisocytosis) and/or suspect (analyzer-generated ex: left shift?, PLT clumps?) flags for all reportable parameters deemed abnormal per lab's protocol, more	yes/yes 100,000 samples 100,000 100,000 yes abnormal (user-defined ex: neutrophilia, anisocytosis) and/or suspect (analyzer-generated ex: left shift?, PLT clumps?) flags all reportable parameters deemed abnormal per lab's protocol, more
Flagging is operator selectable Tags and holds results for follow-up, confirmatory testing, or rerun Parameters for flags for holding samples defined by user or vendor Scattergram display: cell-specific color Histogram display: color with thresholds User interface can display choice of specimen or result information	— yes — yes yes yes	— yes yes user and vendor yes yes yes	— yes yes user and vendor yes yes yes
LIS interface formats supported	XN series ASTM 1381-95/ASTM 1894-97 or XN series ASTM 1381-02/ASTM 1894-97	ASTM 1394-91, HL7	ASTM 1394-91, HL7
Information transferred via LIS interface	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for demographics and orders	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for demographics and orders	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for demographics and orders
LOINC codes transmitted with all results/Sent in message to LIS/ Listing of machine codes and corresponding LOINC for each test Interface available or planned to automated specimen-handling system Barcode symbologies read on specimen tube	yes/yes/no no Codabar, Code 39, Code 128, ITF, NW7, ISBT 128, JAN/EAN/UPC	no/no/yes no Codabar, Code 39, Code 128, ITF, NW7, ISBT 128, JAN/EAN/UPC	no/no/yes no Codabar, Code 39, Code 128, ITF, NW7, ISBT 128, JAN/EAN/UPC
Accommodates barcode placement per CLSI standard Auto02-A2	yes	yes	yes
No. of cleaning or maintenance reagents required/No. of routine liquid reagents required Time required for daily, weekly, monthly maintenance Onboard diagnostics for troubleshooting/Limited to software problems Manufacturer can perform diagnostics via modem	1/4 daily: 2 minutes; weekly: 15 minutes yes/no yes	1/5 cubitainer reagents, 4 fluorescent dye cartridges daily: <1 minute (operator time) yes/no yes	1/5 cubitainer reagents, 4 fluorescent dye cartridges daily: <1 minute (operator time) yes/no yes
Distinguishing features (supplied by company)	6-part WBC differential including immature granulocyte for smaller labs; low WBC mode for improved reliability of analysis; optional reticulocyte and body fluid licenses; onboard rules provide efficient repeat and reflex testing based on user's criteria; standardization of reagents and controls with existing Sysmex XN-Series analyzers; BeyondCare Quality Monitor for Hematology, a QC and calibration management program standard on all models	reportable parameters include IG %&#, RET-He, fluorescent PLT, body fluid with 2-part differential; onboard preloaded decision rules including automated rerun-reflex capabilities; optional wagons for complete reagent management; compatible with optional RU-20 reagent unit that uses concentrated Cellpack	integrated co-primary hematology solution: 2 analytical modules connected with a single sampler, provides maximum productivity and efficiency with workload balancing; reportable parameters include IG %&#, RET-He, fluorescent PLT, body fluid with 2-part differential, onboard preloaded decision rules including automated rerun-reflex capabilities; optional wagons for complete reagent management; compatible with optional RU-20 reagent unit that uses concentrated Cellpack
†does not include slide maker stainers Note: a dash in lieu of an answer means company did not answer question or question is not applicable			

Part 11 of 12	Sysmex America Jill Crist communications@sysmex.com Lincolnshire, IL 800-379-7639 www.sysmex.com/us	Sysmex America Jill Crist communications@sysmex.com Lincolnshire, IL 800-379-7639 www.sysmex.com/us	Sysmex America Jill Crist communications@sysmex.com Lincolnshire, IL 800-379-7639 www.sysmex.com/us
Name of instrument	XN-3100 Series	XN-9100 Series	XN-V Series*
First year installed in U.S./Outside U.S./No. of units sold Sept. 2022–Aug. 2023	2017/2017/>60	2017/2017/50	2017/2017/10
No. units installed in U.S./Outside U.S./List price†	>500/>25/\$562,667 (includes slide maker stainer)	>500/>50/varies based on configuration	35/28/varies by configuration
Menu of chartable tests (standard menu: WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, neut %&#, mono, lymph, eos, baso)	standard menu plus: NRBC %&#, IG %&#, MPV, PLT-F, IPF, RDW-CV, RDW-SD, retic %&#, IRF, RET-He; body fluids: RBC-BF, TC-BF, WBC-BF, MN %&#, PMN %&#	standard menu plus: NRBC %&#, IG %&#, MPV, PLT-F, IPF, RDW-CV, RDW-SD, retic %&#, IRF, RET-He; body fluids: RBC-BF, TC-BF, WBC-BF, MN %&#, PMN %&#	WBC, RBC, Hb, Hct, MCV, MCH, PLT, neut %&#, mono, lymph, eos, baso, NRBC %&#, MPV, PLT-F, PLT-O, IPF, RDW-CV, RDW-SD, retic %&#, IRF, RET-He; body fluids: RBC-BF, TC-BF, WBC-BF, MN %&#, PMN %&#
Tests submitted for 510(k) clearance/Tests in development	—	—	—
Tests for research use only	—	—	not FDA cleared for human use; for research use only
Tests unique to analyzer	IG %&#, PLT-F, IPF, RET-He; body fluids: two-part differential MN %&#, PMN %&#	IG %&#, PLT-F, IPF, RET-He; body fluids: 2-part differential MN %&#, PMN %&#	PLT-F, PLT-O, IPF, RET-He; body fluids: 2-part differential MN %&#, PMN %&#
Differential method(s) used	fluorescent flow cytometry with side fluorescent light, forward-scattered and side-scattered light	fluorescent flow cytometry with side fluorescent light, forward-scattered and side-scattered light	fluorescent flow cytometry with side fluorescent light, forward-scattered and side-scattered light
Analytical measurement range:	<ul style="list-style-type: none"> WBC count/RBC count Hemoglobin/Platelet MCV (fL) or Hct (%) Reticulocytes 	<ul style="list-style-type: none"> WBC count/RBC count Hemoglobin/Platelet MCV or Hct Reticulocytes 	<ul style="list-style-type: none"> WBC count/RBC count Hemoglobin/Platelet MCV or Hct Reticulocytes
Precision:	<ul style="list-style-type: none"> WBC count/RBC count Hemoglobin/Platelet MCV or Hct Reticulocytes 	<ul style="list-style-type: none"> WBC count/RBC count Hemoglobin/Platelet MCV or Hct Reticulocytes 	<ul style="list-style-type: none"> WBC count/RBC count Hemoglobin/Platelet MCV or Hct Reticulocytes
Accuracy of automated differential compared with manual differential (per CLSI H20-A2)	—	—	—
Interfering substances:	<ul style="list-style-type: none"> WBC RBC MCV or Hct Platelet Hemoglobin Reticulocytes 	<ul style="list-style-type: none"> WBC RBC MCV or Hct Platelet Hemoglobin Reticulocytes 	<ul style="list-style-type: none"> WBC RBC MCV or Hct Platelet Hemoglobin Reticulocytes
Interfering substances: differential	—	—	—
Throughput: max. CBCs per hour/Max. CBCs and differentials per hour	200/200	>100, varies by configuration/>100, varies by configuration	100/100
Minimum specimen volume open/Closed/Sample dead volume closed	88 µL/88 µL/1 mL	88 µL/88 µL/1 mL	88 µL/88 µL/1 mL
Microsample capability	yes	yes	yes
Instrument prepares microscope slides automatically/No. of automatic slide makers installed	yes/1	yes/configurable	yes/—
Slide maker stainer sold separately or combined unit	sold as combined unit	sold separately (\$180,950) or combined	—
Instrument archives patient data/Archiving is patient specific	yes/yes	yes/yes	yes/yes
Maximum amount of archived data accessible when system online	100,000 samples	100,000 samples	30,000
No. specimens for which numeric results saved in memory at once	100,000	100,000	30,000
No. specimens for which histo/cytogram results saved in memory at once	100,000	100,000	30,000
Instrument performs delta checks	yes	yes	yes
Parameters for which flags may appear	abnormal (user-defined ex: neutrophilia, anisocytosis) and/or suspect (analyzer-generated ex: left shift?, PLT clumps?) flags for all reportable parameters deemed abnormal per lab's protocol, more	abnormal (user defined ex: neutrophilia, anisocytosis) and/or suspect (analyzer-generated ex: left shift?, PLT clumps?) flags for all reportable parameters deemed abnormal per lab's protocol, more	—
Flagging is operator selectable	yes	yes	—
Tags and holds results for follow-up, confirmatory testing, or rerun	yes	yes	yes
Parameters for flags for holding samples defined by user or vendor	user and vendor	user and vendor	—
Scattergram display: cell-specific color	yes	yes	yes
Histogram display: color with thresholds	yes	yes	yes
User interface can display choice of specimen or result information	yes	yes	yes
LIS interface formats supported	ASTM 1394-91, HL7	ASTM 1394-91, HL7	proprietary, XN series ASTM1381-95/ASTM1894-97 or XN series ASTM1381-02/ASTM1894-97
Information transferred via LIS interface	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for demographics and orders	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for demographics and orders	numeric and flag results, histograms and scatterplots, instrument to LIS; patient demographics, orders, LIS to instrument—broadcast; host query for demographics and orders
LOINC codes transmitted with all results/Sent in message to LIS/ Listing of machine codes and corresponding LOINC for each test	no/no/yes	no/no/yes	yes/yes/no
Interface available or planned to automated specimen-handling system	no	Abbott, Quidel/Ortho, Roche, Siemens, Beckman Coulter	no
Barcode symbologies read on specimen tube	Codabar, Code 39, Code 128, ITF, NW7, ISBT 128, JAN/EAN/UPC	Codabar, Code 39, Code 128, ITF, NW7, ISBT 128, JAN/EAN/UPC	Codabar, Code 39, Code 128, ITF, NW7, ISBT 128, JAN/EAN/UPC
Accommodates barcode placement per CLSI standard Auto02-A2	yes	yes	yes
No. of cleaning or maintenance reagents required/No. of routine liquid reagents required	1/5 cubitainer reagents, 4 fluorescent dye cartridges	1/5 cubitainer reagents, 4 fluorescent dye cartridges	—
Time required for daily, weekly, monthly maintenance	<3 minutes (operator time), ~15 minutes (analyzer time)	<3 minutes (operator time), ~15 minutes (analyzer time)	daily: <1 minute (operator time)
Onboard diagnostics for troubleshooting/Limited to software problems	yes/no	yes/no	yes/no
Manufacturer can perform diagnostics via modem	yes	yes	yes
Distinguishing features (supplied by company)	co-primary hematology solution: 2 analytical modules plus fully integrated 5th-gen slidemaker/stainer (SP-50); integration of DI-60 automated cell image system provides preclassification for WBC, RBC, PLT estimates; compatible with optional RU-20 reagent unit that uses concentrated Cellpack; XN-20 configuration has white cell precursor channel (WPC), which differentiates a single flag (blast/abnormal lymphocytes) into 2 distinct flags (blasts and abnormal lymphocytes)	standalone scalable, modular automation system or can connect to TLA systems; integration of DI-60 automated cell image system provides preclassification for WBC, RBC, PLT estimates; automated QC (BT-50), tube sorter/archiver (TS-10, TA-01, TS-01), and A1c testing (Bio-Rad Variant II Turbo Link, Tosoh G8); XN-20 configuration has white cell precursor channel (WPC), which differentiates a single flag (blast/abnormal lymphocytes) into 2 distinct flags (blasts and abnormal lymphocytes)	customizable, manual gating, low maintenance, remote diagnostics, online QC, fluorescent optical platelets; discrete testing, reagent monitoring, customized chartable report formats; for use in toxicology, research, and veterinary reference labs; available in XN-1000, XN-2000, and XN-3100 configurations

†does not include slide maker stainers

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

*XN-V Series is not FDA cleared for human use; for research use only.

Part 12 of 12	Sysmex America Madelaine Dintelman communications@sysmex.com Lincolnshire, IL 800-379-7639 www.sysmex.com/us	Sysmex America Madelaine Dintelman communications@sysmex.com Lincolnshire, IL 800-379-7639 www.sysmex.com/us
Name of instrument	XP-300	XW-100
First year installed in U.S./Outside U.S./No. of units sold Sept. 2022–Aug. 2023	2013/2013/—	2018/—/—
No. units installed in U.S./Outside U.S./List price†	>1,400/>1,000/\$28,405	250/—/\$6,500
Menu of chartable tests (standard menu: WBC, RBC, Hb, Hct, MCV, MCH, MCHC, PLT, neut %&#, mono, lymph, eos, baso)	WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, neut %&#, lymph %&#, MXD %&# (mono, eos, baso), RDW-SD, RDW-CV, MPV	WBC, RBC, HGB, HCT, MCV, PLT, other WBC %&#, LYM %&#, NEUT %&#
Tests submitted for 510(k) clearance/Tests in development	—	—
Tests for research use only	—	—
Tests unique to analyzer	absolute neutrophil count	direct current with hydrodynamic focusing for all parameters except hemoglobin, which is measured photometrically
Differential method(s) used	direct current	adaptive cluster analysis
Analytical measurement range:	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV (fL) or Hct (%) • Reticulocytes 	
Precision:	<ul style="list-style-type: none"> • WBC count/RBC count • Hemoglobin/Platelet • MCV or Hct • Reticulocytes 	
Accuracy of automated differential compared with manual differential (per CLSI H20-A2)	neut% r=0.98, lymph% r=0.99, MXD% r=0.75, neut# r=1.00, lymph# r=1.00, MXD# r=0.90	—
Interfering substances:	<ul style="list-style-type: none"> • WBC • RBC • MCV or Hct • Platelet • Hemoglobin • Reticulocytes 	
Interfering substances: differential	—	—
Throughput: max. CBCs per hour/Max. CBCs and differentials per hour	60/60	—
Minimum specimen volume open/Closed/Sample dead volume closed	50 µL/—/—	—/15 µL/1 mL
Microsample capability	yes	no
Instrument prepares microscope slides automatically/No. of automatic slide makers installed	no/—	no/—
• Slide maker stainer sold separately or combined unit	—	—
Instrument archives patient data/Archiving is patient specific	yes/no	no/no
Maximum amount of archived data accessible when system online	40,000 samples	—
No. specimens for which numeric results saved in memory at once	40,000	100
No. specimens for which histo/cytogram results saved in memory at once	40,000	—
Instrument performs delta checks	no	no
Parameters for which flags may appear	WBC histogram, RBC histogram, PLT histogram, error flags	WBC, RBC, PLT, HGB, HCT
Flagging is operator selectable	no	no
Tags and holds results for follow-up, confirmatory testing, or rerun	yes	no
Parameters for flags for holding samples defined by user or vendor	vendor	vendor
Scattergram display: cell-specific color	no	no
Histogram display: color with thresholds	yes	no
User interface can display choice of specimen or result information	yes	no
LIS interface formats supported	RS-232C	—
Information transferred via LIS interface	numeric and flag results; patient orders, LIS to instrument—broadcast; host query for patient demographics and orders	—
LOINC codes transmitted with all results/Sent in message to LIS/ Listing of machine codes and corresponding LOINC for each test	no/no/yes	no/no/no
Interface available or planned to automated specimen-handling system	—	no
Barcode symbologies read on specimen tube	Codabar, Code 39, Code 128, ITF, NW-7, UPC-A, UPC-E, JAN-8, JAN-13	proprietary system (barcodes only)
Accommodates barcode placement per CLSI standard Auto02-A2	no	no
No. of cleaning or maintenance reagents required/No. of routine liquid reagents required	1/2	1/2 (1 diluent, 1 lyse)
Time required for daily, weekly, monthly maintenance	daily: <2 minutes; weekly: <2 minutes; monthly: <2 minutes	daily: 15 minutes
Onboard diagnostics for troubleshooting/Limited to software problems	yes/no	no/no
Manufacturer can perform diagnostics via modem	no	no
Distinguishing features (supplied by company)	automatic floating discriminators, optional upgrade to XP-300 Plus or XP-300 Linc available (data manager and small LIS); ability to directly link to EMR	CLIA-waived CBC; contains several safety measures to protect the integrity of patient results; simple operation

† does not include slide maker stainers

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

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