URINALYSIS INSTRUMENTATION

Part 1 of 3 See **captodayonline.com/productguides** for an interactive version of guide	**ARKRAY** **Jessica Donlan** donlanj@arkrayusa.com **5198 W. 76th St.** **Edina, MN 55439** **952-646-3231** www.arkrayusa.com	**Beckman Coulter** **Lourdes Dominguez** ldominguez@beckman.com **11800 S.W. 147th Ave.** **Miami, FL 33196** **305-380-3800** www.beckmancoulter.com	**Beckman Coulter** **Lourdes Dominguez** ldominguez@beckman.com **11800 S.W. 147th Ave.** **Miami, FL 33196** **305-380-3800** www.beckmancoulter.com
Name of urinalysis instrument	AUTION MAX AX-4030	iChemVELOCITY	iQ200ELITE, iQ200SELECT, iQ200SPRINT†
Type of instrument	urine chemistry	urine chemistry	microscopy/sediment
First year instrument sold in U.S.	2011	2012	2003
No. of units installed in U.S./No. of units installed outside U.S.	— (also sold via Cardinal Health)	>1,000/>2,000 globally (also sold via McKesson)	>1,000††/>4,000†† globally (also sold via McKesson)
Intended urine sample volume per day	>15	up to 500	iQ200SELECT: <100; iQ200ELITE: 100–199; iQ200SPRINT: >200
Dimensions (HxWxD)/Weight	21 × 21 × 21 in./82 lbs.	22 × 21 × 24 in./100 lbs.	22 × 21 × 24 in./100 lbs.
Power requirements	100–240 VAC (50–60 Hz)	100–240 VAC	90–240 VAC
Mean time between failure of instrument	less than one unscheduled service visit per year	—	—
Events that cause instrument to lock or stop analysis	short sample, result error, sampling error	QC failure, short sample, barcode/sample ID misread, result error, sampling error, consumables replacement/ expiration	QC failure, short sample, barcode/sample ID misread, result error, sampling error, consumables replacement/ expiration
Urine chemistry: *(Information in this box is specific to urine chemistry)*			
• Testing methodology: Specific gravity/Color/Clarity	refractometer/wavelength of absorbance within an analyzer well/turbidity within an analyzer well	refractometer/wavelength of absorbance within an analyzer well/measured directly from scattered light	—
• Urine chemistry tests available on instrument	bilirubin (0–≥10 mg/dL), hemoglobin (0–≥1 mg/dL), glucose (0–≥1,000 mg/dL), ketone (0–≥150 mg/dL), leukocyte esterase (0–500 leukocytes/µL), nitrite (–, 1+, 2+), pH (5–9), protein (0–≥600 mg/dL), specific gravity (1.000–1.050), urobilinogen (0–≥12 mg/dL)	ascorbic acid (0–40 mg/dL), bilirubin (0–4 mg/dL), red blood cells (0–≥1 mg/dL), glucose (0–≥500 mg/dL), ketone (0–80 mg/dL), leukocyte esterase (0–500 WBCs/µL), nitrite (positive and negative), pH (5–9), protein (0–≥500 mg/dL), specific gravity (1.000–1.060), urobilinogen (0–4 mg/dL)	—
• Color compensation pad included	yes	yes	—
• Flagging thresholds customizable	no	yes	—
• Test strip configuration	loosely packed in bottles	loosely packed in bottles	—
• Calibration required after each test strip lot No. change	no	no	—
• Frequency of customer-performed calibration	—	quarterly	—
• Form of calibration	—	liquid	—
• How results are displayed for urine chemistry	semiquantitative	true values, calculated values, semiquantitative	—
• Reporting format customizable	no	yes	—
• No. of sample results/Control results that can be held in internal memory	2,500/200	10,000/3	—
Microscopy/sediment: *(Information in this box is specific to microscopy/sediment)*			
• Microscopy/sediment technology	—	—	digital flow morphology (digital imaging)
• Microscopy/sediment analysis parameters	—	—	all of the following qualitative or quantitative (user's option): pathological casts, crystals, small round cells, yeast-like cells, mucus, sperm, RBCs, WBCs, epithelial cells, bacteria, hyaline casts, white blood cell clumps
• Instrument eliminates amorphous crystal interference before sample analysis	—	—	no
• How results are displayed for microscopy/sediment	—	—	numeric values
• Reporting format customizable	—	—	yes
• No. of sample results/Control results that can be held in internal memory	—	—	10,000/~200
Reagent shelf-life and storage temperature for unopened containers	—	varies	varies
Reagent shelf-life and storage temperature for opened containers	—	varies	varies
Reagent barcode-reading capability	no	yes	yes
How often quality control samples are run	daily	daily	daily
Ability to use other vendors' quality control products	yes	no	yes
Sample throughput per hour/Time to first result	225/1 min. cycle time	210/2 min.	iQ200SELECT: 40; iQ200ELITE: 70; iQ200SPRINT: 101/~2 min.
Analyzer has stat mode	yes	no	no
Sample dilutions required for urinalysis	no	yes	yes
Sample dilutions required for body fluid analysis	—	yes	yes
Special sample handling required for body fluid analysis	—	yes	yes
Minimum width of sample tube/Minimum height of sample tube	14 mm/95 mm	16 mm/100 mm	16 mm/100 mm
Conditions or substances that prevent sample from being run	—	blood, mucus	grossly visible turbidity
Means of sample ID entry	barcode scan, manual entry	barcode scan, manual entry	barcode scan, manual entry
Built-in liquid-level sensing for samples	yes	no	no
Information that can be barcode scanned on instrument	specimen identifier	specimen identifier, reagent lot No., reagent expiration	specimen identifier, reagent lot No., reagent expiration
How LOINC codes for results are made available	e-mail query	manual transmission	manual transmission
Software includes reflex testing functionality	no	yes	yes
Software includes cross-check functionality	no	no	no
Instrument automatically generates consolidated report*	no	yes	yes
Instrument connections to transfer information	directly to LIS/EHR/lab automation system, or via commercial middleware	data-management system, which connects to LIS/EHR, or directly to LIS/EHR/lab automation system	data-management system, which connects to LIS/EHR, or directly to LIS/EHR/lab automation system
Interface standards supported	ASTM 1394-91	ASTM 1381 with proprietary message layer	ASTM 1381 with proprietary message layer
Connection to LIS or EHR to upload patient and QC results	direct serial, hospital network	direct serial	direct serial
Information included in transmission from instrument to data-management software	device unique identifier, specimen ID, result	device unique identifier, operator ID, patient ID, specimen ID, result, QC identifier	device unique identifier, operator ID, patient ID, specimen ID, result, QC identifier
No. of days of on-site training with purchase	1–2	1	1
No. of days of training at vendor office	—	0	3.5
Approximate scheduled maintenance time required	<5 min. daily; 2 min. every 3 days; <5 min. weekly; <10 min. monthly	10 min. daily; 12 min. weekly; 21 min. monthly	—
Instrument list price	$42,000	—	—
Cost of annual service contract/Length of warranty	—/1 year	—/1 year	—/1 year
Provide list of client sites to potential customers on request	yes (partial list of comparable sites)	yes	yes
Clients restricted from sharing their experience with company or software	no	no	no
Distinguishing instrument features (supplied by company)	• proven reliability with less than one unscheduled service event per year • abnormal color detection alerts operators of potential false-positive results • easy to use; strips are easy to load; does not require calibration	• ascorbic acid test pad identifies possible ascorbic acid interference with key chemistry assays • high capacity and ease of use to maximize lab performance and productivity • evaluates nine standard urine chemistries plus ascorbic acid, as well as color, clarity, and specific gravity	• advanced urinalysis and body fluid testing through digital flow morphology using auto-particle recognition software for standardization • increased productivity through improved workflow, reduced urine cultures, lower review rates, and review by exception • advanced technology allows for testing of body fluids and urine samples in a preservative tube

**chemistry and microscopy results in one report*

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

†answers in listing apply to all three systems unless otherwise indicated

††combined total

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Product guide editors: Raymond D. Aller, MD, and Hal Weiner, with assistance from Leslie Williams, MT(ASCP)

URINALYSIS INSTRUMENTATION

Part 2 of 3 See **captodayonline.com/productguides** for an interactive version of guide	**Beckman Coulter** **Lourdes Dominguez** ldominguez@beckman.com **11800 S.W. 147th Ave.** **Miami, FL 33196** **305-380-3800** www.beckmancoulter.com	**Roche Diagnostics** **9115 Hague Road** **Indianapolis, IN 46250** **317-521-4975** go.roche.com/cap_product_guide_ua	**Roche Diagnostics** **9115 Hague Road** **Indianapolis, IN 46250** **317-521-4975** go.roche.com/cap_product_guide_ua
Name of urinalysis instrument	iRICELL1500, iRICELL2000, iRICELL3000†	cobas u 411 analyzer	Urisys 2400 analyzer
Type of instrument	urine chemistry and microscopy/sediment combined	urine chemistry	urine chemistry
First year instrument sold in U.S.	2003	2006	2002
No. of units installed in U.S./No. of units installed outside U.S.	>1,000††/>2,000†† globally (also sold via McKesson)	>400/>2,300	>150/>800
Intended urine sample volume per day	iRICELL1500: <100; iRICELL2000: 100–199; iRICELL3000: >200	40–100	>100
Dimensions (HxWxD)/Weight	22 × 45 × 24 in./200 lbs.	10.24 × 16.73 × 13.34 in./26 lbs.	28 × 21 × 26 in./187 lbs.
Power requirements	microscopy module: 90–240 VAC, chemistry module: 100–240 VAC	110 VAC	110 VAC
Mean time between failure of instrument	—	>365 days	>180 days
Events that cause instrument to lock or stop analysis	QC failure, short sample, barcode/sample ID misread, result error, sampling error, consumables replacement/ expiration	opening front cover	opening front cover
Urine chemistry: *(Information in this box is specific to urine chemistry)*			
• Testing methodology: Specific gravity/Color/Clarity	refractometer/wavelength of absorbance within an analyzer well/measured directly from scattered light	test strip/test strip/visual detection	refractometer/test strip/turbidity within an analyzer well, visual detection
• Urine chemistry tests available on instrument	ascorbic acid (0–40 mg/dL), bilirubin (0–4 mg/dL), red blood cells (0–≥1 mg/dL), glucose (0–≥500 mg/dL), ketone (0–80 mg/dL), leukocyte esterase (0–500 WBCs/µL), nitrite (positive and negative), pH (5–9), protein (0–≥500 mg/dL), specific gravity (1.000–1.060), urobilinogen (0–4 mg/dL)	bilirubin, glucose, ketone, leukocyte esterase, nitrite, pH, protein, specific gravity, urobilinogen	bilirubin, glucose, ketone, leukocyte esterase, nitrite, pH, protein, specific gravity, urobilinogen
• Color compensation pad included	yes	—	—
• Flagging thresholds customizable	yes	—	—
• Test strip configuration	loosely packed in bottles	loosely packed in bottles	cartridge
• Calibration required after each test strip lot No. change	no	yes	yes
• Frequency of customer-performed calibration	quarterly	monthly	monthly
• Form of calibration	liquid	dry	dry
• How results are displayed for urine chemistry	true values, calculated values, semiquantitative	semiquantitative	semiquantitative
• Reporting format customizable	yes	yes	yes
• No. of sample results/Control results that can be held in internal memory	10,000/5	1,000/900	1,000/900
Microscopy/sediment: *(Information in this box is specific to microscopy/sediment)*			
• Microscopy/sediment technology	digital flow morphology (digital imaging)	—	—
• Microscopy/sediment analysis parameters	all of the following qualitative or quantitative (user's option): pathological casts, crystals, small round cells, yeast-like cells, mucus, sperm, RBCs, WBCs, epithelial cells, bacteria, hyaline casts, white blood cell clumps	—	—
• Instrument eliminates amorphous crystal interference before sample analysis	no	—	—
• How results are displayed for microscopy/sediment	numeric values	—	—
• Reporting format customizable	yes	—	—
• No. of sample results/Control results that can be held in internal memory	10,000/~200	—	—
Reagent shelf-life and storage temperature for unopened containers	varies	2–30°C	2–30°C
Reagent shelf-life and storage temperature for opened containers	varies	2–30°C	14 days, 2–30°C
Reagent barcode-reading capability	yes	yes	yes
How often quality control samples are run	daily	minimum of daily	minimum of daily
Ability to use other vendors' quality control products	yes	yes	yes
Sample throughput per hour/Time to first result	iRICELL1500: 40 microscopy, 210 chemistry; iRICELL2000: 70 microscopy, 210 chemistry; iRICELL3000:101 microscopy, 210 chemistry/ ~4 min. for microscopy and ~2 min. for chemistry	600/—	240/—
Analyzer has stat mode	no	yes (minimum sample volume is minimum amount necessary to immerse pads)	yes (minimum sample volume, 1.5 mL)
Sample dilutions required for urinalysis	yes	no	no
Sample dilutions required for body fluid analysis	yes	no	no
Special sample handling required for body fluid analysis	yes	no	no
Minimum width of sample tube/Minimum height of sample tube	16 mm/100 mm	—	13–66 mm/100–115 mm
Conditions or substances that prevent sample from being run	extreme amount of blood or mucus or grossly visible turbidity	preservatives	preservatives
Means of sample ID entry	barcode scan, manual entry	barcode scan, bidirectional download from host, worklist download from host, manual entry	barcode scan, bidirectional download from host, worklist download from host, manual entry
Built-in liquid-level sensing for samples	no	no	yes
Information that can be barcode scanned on instrument	specimen identifier, reagent lot No., reagent expiration	specimen identifier	specimen identifier
How LOINC codes for results are made available	manual transmission	website, e-mail query	website, e-mail query
Software includes reflex testing functionality	yes	no	no
Software includes cross-check functionality	no	no	no
Instrument automatically generates consolidated report*	yes	no	no
Instrument connections to transfer information	data-management system, which connects to LIS/EHR, or directly to LIS/EHR/lab automation system	data-management system, which connects to LIS/EHR, or directly to LIS/EHR/lab automation system, or via commercial middleware	data-management system, which connects to LIS/EHR, or directly to LIS/EHR/lab automation system, or via commercial middleware (Data Innovations)
Interface standards supported	ASTM 1381 with proprietary message layer	ASTM 1394-91, ASTM 1238-95	ASTM 1394-91, ASTM 1238-95
Connection to LIS or EHR to upload patient and QC results	direct serial	direct serial	direct serial
Information included in transmission from instrument to data-management software	device unique identifier, operator ID, patient ID, specimen ID, result, QC identifier	specimen ID, result	specimen ID, result
No. of days of on-site training with purchase	1	0	2
No. of days of training at vendor office	3.5	0	3–4
Approximate scheduled maintenance time required	—	5 min. daily; 10 min. monthly	10 min. daily; 15 min. weekly; 10 min. monthly
Instrument list price	—	$13,500	$49,750
Cost of annual service contract/Length of warranty	—/1year	—/1 year	—/1 year
Provide list of client sites to potential customers on request	yes	no (information is confidential)	no (information is confidential)
Clients restricted from sharing their experience with company or software	no	no	no
Distinguishing instrument features (supplied by company)	• advanced urinalysis and body fluid testing through digital flow morphology using auto-particle recognition software for standardization • increased productivity through improved workflow, reduced urine cultures, lower review rates, more • advanced technology allows for testing of body fluids and urine samples in a preservative tube	• fast, efficient processing of urine strips; analyzer ready to test every six seconds • Chemstrip 10UA strip has virtually no interference with ascorbic acid, minimizing false-negative glucose results • flexible sample ID entry options let user choose barcode scan, download from host, or manual entry options	• adjusts easily to different workloads with continuous rack or batch loading • maintains quality with fully automated wash procedures and QC due to definable control racks • eliminates manual sample mixing and improves efficiency with automatic sample mixing onboard

**chemistry and microscopy results in one report*

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Part 3 of 3

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	Siemens Healthineers **Maya Daaboul** maya.daaboul@siemens-healthineers.com **2 Edgewater Drive** **Norwood, MA 02062** **781-269-3000** www.healthcare.siemens.com	**Siemens Healthineers** **Maya Daaboul** maya.daaboul@siemens-healthineers.com **2 Edgewater Drive** **Norwood, MA 02062** **781-269-3000** www.healthcare.siemens.com	**Sysmex America** **Leslie Williams** williamsl@sysmex.com **577 Aptakisic Road** **Lincolnshire, IL 60069** **800-379-7639** www.sysmex.com
Name of urinalysis instrument	CLINITEK AUWi PRO Automated Urinalysis System†	CLINITEK Novus Automated Urine Chemistry Analyzer	UF-1000i Fully Automated Urine Sediment Analyzer†
Type of instrument	urine chemistry and microscopy/sediment combined	urine chemistry	microscopy/sediment
First year instrument sold in U.S.	2015	2015	2006
No. of units installed in U.S./No. of units installed outside U.S.	—	—	>600††/2,968–China, Japan, Africa, Middle East, Europe, Asia Pacific
Intended urine sample volume per day	75–500	50–1,000	>75
Dimensions (HxWxD)/Weight	27 × 63 × 35 in./397 lbs.	21× 25 × 27 in./93 lbs.	24.2 × 22.8 × 27 in./148 lbs.
Power requirements	120–240 VAC (50–60 Hz)	100–240 VAC (48–62 Hz)	100–240 VAC
Mean time between failure of instrument	—	—	45 days
Events that cause instrument to lock or stop analysis	user ID failure, QC failure, short sample, barcode/sample ID misread, result error, sampling error, consumables replacement/expiration, calibration failure, humidity exposure, rinse errors, hardware failure	user ID failure, QC failure, short sample, barcode/sample ID misread, result error, sampling error, consumables replacement/expiration, calibration failure, humidity exposure, rinse errors, hardware failure	short sample, barcode/sample ID misread, result error, sampling error, consumables replacement/expiration, customer-defined parameters
Urine chemistry: *(Information in this box is specific to urine chemistry)*			
• Testing methodology: Specific gravity/Color/Clarity	refractometer/test strip/turbidity within an analyzer well	refractometer/test strip/turbidity within an analyzer well	—
• Urine chemistry tests available on instrument	bilirubin (0.5–2.7 mg/dL), red blood cells (at a trace level), hemoglobin (0.013–0.3 mg/dL), glucose (36–820 mg/dL), ketone (3.6–156 mg/dL), leukocyte esterase (6.0–91 cells/µL), nitrite (positive and negative; >0.06 mg/dL), pH (5.3–8.7), protein (10.8–1,000 mg/dL), specific gravity (1.000–1.099), urobilinogen (0.24–6.24 mg/dL)	bilirubin (0.5–2.7 mg/dL), red blood cells (at a trace level), hemoglobin (0.013–0.3 mg/dL), glucose (36–820 mg/dL), ketone (3.6–156 mg/dL), leukocyte esterase (6.0–91 cells/µL), nitrite (positive and negative; >0.06 mg/dL), pH (5.3–8.7), protein (10.8–1,000 mg/dL), specific gravity (1.000–1.099), urobilinogen (0.24–6.24 mg/dL)	—
• Color compensation pad included	yes	yes	—
• Flagging thresholds customizable	yes	yes	—
• Test strip configuration	cartridge	cartridge	—
• Calibration required after each test strip lot No. change	yes	yes	—
• Frequency of customer-performed calibration	with every Novus cassette change or every 24 hours when multiple same-lot Novus cassettes are used within 24 hours	with every Novus cassette change or every 24 hours when multiple same-lot Novus cassettes are used within 24 hours	—
• Form of calibration	liquid and dry	liquid and dry	—
• How results are displayed for urine chemistry	semiquantitative	semiquantitative	—
• Reporting format customizable	yes	yes	—
• No. of sample results/Control results that can be held in internal memory	7,500/400	7,500/400	—
Microscopy/sediment: *(Information in this box is specific to microscopy/sediment)*			
• Microscopy/sediment technology	flow cytometry with fluorescent stain	—	flow cytometry with fluorescent stain
• Microscopy/sediment analysis parameters	pathological casts (flagged), crystals (flagged), small round cells (flagged), yeast-like cells (flagged), mucus (flagged), sperm (flagged), RBCs (quantitative), WBCs (quantitative), epithelial cells (quantitative), bacteria (quantitative), hyaline casts (quantitative)	—	pathological casts (flagged), crystals (flagged), small round cells (flagged), yeast-like cells (flagged), mucus (flagged), sperm (flagged), RBCs (quantitative), WBCs (quantitative), epithelial cells (quantitative), bacteria (quantitative), hyaline casts (quantitative)
• Instrument eliminates amorphous crystal interference before sample analysis	yes	—	yes
• How results are displayed for microscopy/sediment	numeric values, scattergrams	—	numeric values, scattergrams
• Reporting format customizable	yes	—	yes
• No. of sample results/Control results that can be held in internal memory	2 years worth of data/2 years worth of data	—	10,000/24 QC files, 300 results per file
Reagent shelf-life and storage temperature for unopened containers	365 days, 15–30°C	365 days, 15–30°C	365 days, room temperature
Reagent shelf-life and storage temperature for opened containers	—	—	60 days, 25°C
Reagent barcode-reading capability	yes	yes	yes
How often quality control samples are run	daily	— (after calibration and according to lab guidelines)	once per 24 hours
Ability to use other vendors' quality control products	no	yes	yes
Sample throughput per hour/Time to first result	80 at 100% sediment/—	240/~2 min.	up to 95/<2 min.
Analyzer has stat mode	yes (minimum sample volume, 2 mL for urine chemistry, 1 mL for sediment)	yes (minimum sample volume, 2 mL)	yes (minimum sample volume, 1 mL)
Sample dilutions required for urinalysis	no	no	no
Sample dilutions required for body fluid analysis	—	—	—
Special sample handling required for body fluid analysis	—	—	—
Minimum width of sample tube/Minimum height of sample tube	16 mm/ 95–106 mm	16 mm/95–106 mm	12–15 mm/95–120 mm
Conditions or substances that prevent sample from being run	mucus, high fluorescence, visible turbidity, samples containing pyridium, grossly bloody samples	mucus, high fluorescence, visible turbidity, grossly bloody samples	blood, mucus, high fluorescence, preservatives; any sample with potential to clog sample filter or reaction chamber due to excessive cellular or mucoid content or to interfere with fluorescent stains
Means of sample ID entry	barcode scan, worklist download from host, manual entry	barcode scan, worklist download from host, manual entry	barcode scan, manual entry
Built-in liquid-level sensing for samples	yes	yes	yes
Information that can be barcode scanned on instrument	specimen identifier, reagent lot No.	operator identifier, specimen identifier, reagent lot No.	specimen identifier, reagent lot No., QC lot No. and target values
How LOINC codes for results are made available	website, e-mail query, communication from Siemens	website, e-mail query, communication from Siemens	website, e-mail query
Software includes reflex testing functionality	—	yes	no
Software includes cross-check functionality	yes	yes	no
Instrument automatically generates consolidated report*	yes	no	no
Instrument connections to transfer information	data-management system, which connects to LIS/EHR, or data-management system, which cannot further transmit data, or directly to LIS/EHR/lab automation system, or via commercial middleware	data-management system, which connects to LIS/EHR, or data-management system, which cannot further transmit data, or directly to LIS/EHR/lab automation system, or via commercial middleware	data-management system, which connects to LIS/EHR, or directly to LIS/EHR/lab automation system, or via commercial middleware (Data Innovations)
Interface standards supported	ASTM 1394-91, HL7	ASTM 1394-91, ASTM 1381, HL7	ASTM 1394-91, ASTM 1381, ASTM 1238-95
Connection to LIS or EHR to upload patient and QC results	direct serial, hospital network	direct serial, hospital network	direct serial, hospital network
Information included in transmission from instrument to data-management software	device unique identifier, operator ID, patient ID, specimen ID, result, QC identifier	device unique identifier, operator ID, patient ID, specimen ID, result, QC identifier	device unique identifier, operator ID, patient ID, specimen ID, result, QC identifier
No. of days of on-site training with purchase	1–3	1–2	3–5
No. of days of training at vendor office	4	2.5	3
Approximate scheduled maintenance time required	10 min. per shift; 10 min. daily based on 1 shift; 10 min. weekly; 10 min. monthly	5–10 min. per shift; 5–10 min. daily based on 1 shift; 5–10 min. weekly; 5–10 min. monthly	5 min. per shift; 20 min. daily; 20 min. monthly
Instrument list price	—	—	$125,000
Cost of annual service contract/Length of warranty	—/1 year	—/1 year	$9,223 for standard business hours coverage/1 year
Provide list of client sites to potential customers on request	yes (partial list of comparable sites)	yes (partial list of comparable sites)	yes (partial list, based on geography)
Clients restricted from sharing their experience with company or software	no	no	no
Distinguishing instrument features (supplied by company)	• can upgrade CLINITEK Atlas to CLINITEK Novus and have CLINITEK solution for dry pad chemistry • no pretreatment of samples or on-screen review required • fluorescent flow cell technology with dedicated channels for bacteria and sediment to drive clinical outcomes	• digital color camera for improved accuracy of result measurement, including detection of intact RBC • reagent cassette format with RFID that provides complete traceability and 14 days of onboard stability • uses same dry pad reagent chemistry as CLINITEK family of analyzers—that is, Multistix 10 SG strips	• superior bacteria detection via an RNA-specific stain that eliminates staining of debris • review-by-exception design • fluorescent flow cytometry for accurate, standardized, and reproducible results and fewer visual reviews

**chemistry and microscopy results in one report*

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†system comprises CLINITEK Novus and Sysmex UF-1000i analyzers

†also sold as part of Siemens' CLINITEK AUWi PRO

††includes Siemens CLINITEK AUWi and AUWi PRO placements

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