

DxU IRIS AUTOMATED URINALYSIS SOLUTION

DATASHEET

Today's laboratories need reliable solutions that minimize manual review and standardize high-throughput processes. The DxU Iris Workcell fully automated urinalysis solution **streamlines workflow** using industry-leading technology to **reduce manual review** to 4%¹. The analyzers' load-and-go walkaway capability and Edit-Free Release technology minimizes interruptions and operator intervention. Newly enhanced intuitive software user interface elevates operator experience and access to innovative software solutions enables remote service monitoring for improved laboratory system uptime.

The DxU Iris pairs the **AUTION MAX™ AX-4030 urine chemistry analyzer** with the **DxU Iris Microscopy series of the DxU 850m Iris or the DxU 840m Iris urine microscopy analyzer** to create a scalable, fully automated urinalysis solution for your laboratory. Using proprietary Digital Flow Morphology technology with Auto Particle Recognition (APR) Software which delivers standardized results using AI to recognize particles, the DxU Iris helps to isolate, identify and characterize urine particles on the screen to virtually eliminate the need for manual microscopy.



TAKE THE INTERRUPTIONS OUT OF YOUR URINALYSIS WORKFLOW

- › **Minimize operator intervention and interruptions** with load-and-go walk away capabilities and Edit-Free Release technology
- › **Sleek, intuitive software user interface** allows the operator to comfortably navigate, access key reference information and simplify training across multiple Beckman Coulter instruments
- › **Improve efficiency** of urinalysis testing and reduce manpower with iWARE Integrated Urinalysis Software, standard on the analyzer, that provides onboard validation and result verification into a single step
- › **Increase productivity** with optional advanced software solutions including PROService remote service tool, DxONE Command Central remote monitoring and REMISOL Advance middleware, as well as an optional new load and unload station that increases up to 19 racks at a time

	MICROSCOPY	CHEMISTRY
Menu/Test parameters	<ul style="list-style-type: none"> › Urine particles: RBC, WBC, WBC Clumps, Squamous Epithelial Cells, Non-Squamous Epithelial Cells, Hyaline Casts, Unclassified Casts, Crystals, Bacteria, Yeast, Sperm, Mucus › Additional categories for subclassification: <ul style="list-style-type: none"> · Unclassified casts: Granular, Cellular, Waxy, Broad, RBC, WBC, Epithelial Cell, Fatty Casts · Crystals: Calcium Phosphate, Uric Acid, Calcium Carbonate, Leucine, Cystine, Tyrosine, Amorphous Calcium Oxalate, Triple Phosphate · Non-squamous epithelial cells: Renal Epithelial, Transitional Epithelial · Yeast: Budding Yeast, Yeast with Pseudohyphae · Other: RBC Clumps, Fat, Oval Fat Bodies, Trichomonas, Dysmorphic RBCs › Body fluids: Cerebrospinal, Pleural, Peritoneal, Peritoneal Dialysate, Peritoneal Lavage, Pericardial, General Serous Fluids, Synovial Fluids 	Glucose, Protein, Bilirubin, Urobilinogen, pH, Specific Gravity, Blood, Ketones, Nitrite, Leukocyte, Color, Clarity, Color Compensation Pad
Measurement technology	Digital Flow Morphology using Auto-Particle Recognition Software	<ul style="list-style-type: none"> › Specific Gravity: refractive index › Clarity: measured directly from scattered light › Color: measured by transmitted light in the sample using proprietary algorithms
Measurement wavelengths	N/A	5 LED wavelengths (430, 500, 565, 635, 760 nm)
Test strips	N/A	AUTION Sticks 9EB urine chemistry strip, 100-test vial; Storage 34°-86°F (1°-30°C)
Test strip capacity	N/A	Up to 400 test strips (two storage compartments, up to 200 test strips per compartment)
Sample throughput	Up to 101 samples per hour	Up to 225 samples per hour
Sample identification and capacity	<ul style="list-style-type: none"> › Auto-ID barcode or keyboard entry of ID › 10-tube rack system › Up to six racks for 60 sample walk away capability 	
Specimen volume	<ul style="list-style-type: none"> › Minimum: 2.0 mL of un-spunurine › Aspiration: approximately 1.3 mL 	› Minimum: 2 mL, 40 mm from bottom of tube
Workstation	<ul style="list-style-type: none"> › Computer with touch-screen monitor Windows 10 › Keyboard Mouse 	
Data storage	Onboard storage of up to 10,000 patient results	
Communication interface	Bidirectional with host query	
Operating environment	<ul style="list-style-type: none"> › Temperature: 64-82°F (18-28°C) › Humidity: 20-80%, non-condensing 	

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Dimensions and weight	Depth	Width	Height	Weight
Microscopy module	25.4 in (64.5 cm)	20.9 in (53 cm)	23 in (54.4cm)	100.0 lbs (46.0 kg)
Workcell bridge	3.12 in (7.92 cm)	4.98 in (12.65 cm)	4.60 in (11.68 cm)	457.6 grams
Chemistry module	20.9 in (53.0 cm)	20.9 in (53.0 cm)	21.0 in (53.34 cm)	91 lbs (41.2 kg)
CPU	10.8 in (27.4 cm)	5.5 in (14.0 cm)	12.7 in (32.3 cm)	28.0 lbs (13.0 kg)
21.5" Monitor with base	8.0 in (20.3 cm)	17.52 in (44.5 cm)	17.52 in (44.5 cm)	19.1 lbs (8.7 kg)
Load/Unload stations	19.0 in (48.3 cm)	13.5 in (34.3 cm)	9.0 in (22.9 cm)	12.0 lbs (5.5 kg)

For more information, please visit www.beckmancoulter.com/DxUIris

References

1. Broadlawns Medical Center. (2019). Manual microscopy divided by on-screen microscopic verification report generated December 20, 2019. Case study published by Beckman Coulter. https://media.beckmancoulter.com/-/media/diagnostics/products/urinalysis/docs/ua-broadlawns-case-study.pdf_ga=2.105761475.1320714369.1623081858-966792729.1621451088.

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DS-269700 | 2021-9212

