Automatic Urine Analysis Workstation - Urine Chemistry and Sediment Analyzer - 120 Samples/Hour

Model **MSUA-S3-120SWISS, MSUA-A3-240SWISS** | Brand **Master Science**





The Master Science Urine Analysis Workstation joins a urine dry chemistry analyzer and a urine formed-element (sediment) analyzer into one line, so strip chemistry and microscopic examination are completed in a single pass without manual handling of samples.

KEY HIGHLIGHTS

- One pass for both tests
- No manual microscopy for routine samples
- Lower running cost
- Cleaner workflow
- Complete picture

AT A GLANCE

5 racks of 10 tubes (50 samples) SAMPLE LOADING	**660 × 440 × 570 mm (S3-120); 660 × 625 × 581 mm (A3-240)** DIMENSIONS (L × W × H)

Request a Quotation
Contact us for pricing, configuration options and delivery details.

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Overview

The sediment module images cells in a four-channel flow cell and classifies them with image recognition at 120 samples per hour, while the chemistry module reads 12 strip parameters at 240 strips per hour. A combined, illustrated report brings both sets of results together.

Specifications of the Master Science Urine Analysis Workstation (sediment module S3-120 and chemistry module A3-240):

Key Benefits

One pass for both tests
the Master Science Urine Analysis Workstation links chemistry and sediment analysis.

No manual microscopy for routine samples
automated imaging and classification.

Lower running cost
auto focus without focusing fluid.

Cleaner workflow
closed sampling reduces contamination.

Complete picture
combined report with images.

For blood counts, see the Master Science 5-part hematology analyzer.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSUA-S3-120SWISS, MSUA-A3-240SWISS
SKU	MSUA-S3-120SWISS, MSUA-A3-240SWISS
Brand	Master Science
Model Numbers	MSUA-S3-120SWISS, MSUA-A3-240SWISS
SKU	MSUA-S3-120SWISS, MSUA-A3-240SWISS
Sediment Principle	Flow-cell digital imaging with image fusion and AI recognition
Sediment Parameters	Normal, ghost and dysmorphic RBC; WBC, WBC clumps, pus cells; hyaline, granular and WBC casts; squamous and other epithelial cells; sperm; calcium oxalate crystals; bacteria; yeast; amorphous urates; mucus and others
Flow Cell	4-channel fixed flow counting cell
Sediment Speed	120 samples/hour
Sensitivity	5 cells/µL
Accuracy / Repeatability	**> 95 % / CV < 10 %**
Carry-over	< 0.05 %
Chemistry Principle	Photoelectric colorimetric method
Chemistry Parameters	URO, BIL, KET, BLD, PRO, NIT, LEU, GLU, SG, pH, VC, MAL
Chemistry Speed	240 strips/hour (15 s per strip)
Sample Loading	5 racks of 10 tubes (50 samples)
Sample Volume	Minimum 3 mL; 1 mL aspirated
Focus	Automatic focus calibration without focusing fluid
Report	Quantitative units (/µL and /HPF), illustrated combined report
Power Supply	AC 220 V ±10 %, 50 Hz
Operating Conditions	15 to 35 °C (20 to 25 °C optimal), ≤ 75 % RH

DISPLAY & DATA

Sediment Data Storage	200,000 results
Chemistry Data Storage	20,000 results
Output	RS-232; thermal printer

DIMENSIONS & WEIGHT

Dimensions (L × W × H)	660 × 440 × 570 mm (S3-120); 660 × 625 × 581 mm (A3-240)
Net Weight	37 kg (S3-120); 65 kg (A3-240)

COMMON LABORATORY PROBLEMS AND HOW THIS WORKSTATION HELPS

Common Laboratory Problems and How This Workstation Helps	How the Master Science Urine Analysis Workstation streamlines urinalysis:
Time-consuming manual microscopy	automated sediment imaging.
Separate chemistry and sediment steps	one integrated line.
Cost of focusing fluid	automatic focus calibration.
Operator-dependent results	standardised image recognition.

The Master Science Urine Analysis Workstation is used in

- **Hospital clinical laboratories**
- **Diagnostic centres with high urine workloads**
- **Health check-up centres**
- **Routine urinalysis**

Sediment Module

- Flow-cell digital imaging
- AI cell recognition
- 120 samples per hour

Chemistry Module

- 12 strip parameters
- 240 strips per hour
- 50-sample rack loading

Reporting

- Combined chemistry and sediment report
- Results in /µL and /HPF
- Large data storage