

Automated Urinalysis System

# UN-2000™

Work Smarter and  
Faster with Walkaway  
Automation



Together for a better  
healthcare journey

# Discover what automation is truly meant to be with the UN-2000™ Automated Urinalysis Solution.

In today's busy labs, you need standardized, efficient urinalysis testing. The Sysmex UN-2000 combines the trusted, proven dry pad Multistix® reagent chemistry pad technology of the Siemens CLINITEK Novus® with the precise and accurate fluorescent flow cytometry urine particle identification and counting technology of the Sysmex UF-5000™ for true walkaway urinalysis testing. With the Sysmex urinalysis solutions, your lab can optimize workflow, minimize time-consuming manual processes and reduce subjective and variable urine particle image reviews for the majority of your patient samples.

## The Perfect Pair for Your Lab



Siemens CLINITEK Novus® Automated Urine Chemistry Analyzer



Sysmex UF-5000™ Fully Automated Urine Particle Analyzer

Combining proven, dry-pad urine chemistry technology with efficient software and system design, the CLINITEK Novus Urine Analyzer delivers urine chemistry results you can trust in a robust, operator friendly and reliable platform.

- Same Multistix reagent pad technology across entire CLINITEK family, which allows you to standardize your urine chemistry testing across multiple facilities.
- Intuitive, easy-to-use software with a color touchscreen providing onscreen operator instruction and troubleshooting tips.
- Easy to load test cassette format with RFID tag for automated entry of lot # and expiration date.
- Color correction feature to help improve accuracy on darkly colored urines for the BIL, BLO, CRE, GLU, KET, PRO, and URO pads.
- Automated checks include humidity exposure, low sample level, waste bottle full, rinse bottle empty, card waste drawer full, low tests remaining.
- Minimal system maintenance frees up staff for other critical lab tasks.

Using world-class fluorescent flow cytometry technology, the UF-5000 delivers accurate, precise and reliable urine particle counts for rapid screening and autovalidation of urine samples. Its shorter wavelength blue laser and four different optical measurements offer greater sensitivity and specificity to provide confidence in urine particle detection and identification, creating a completely automated 5-part microscopic.

- Advanced laser optics, analysis channels and reagents drive quick, accurate and precise urine particle counts while reducing common interferences, such as amorphous salts, that could impact particle counts on other methods.
- Measurement of Depolarized Side Scattered light (DSS) enhances differentiation of red blood cells from similar sized crystals.
- 488nm laser provides accurate detection and discrimination of sometimes hard to 'visualize' small particles such as bacteria.
- STAT and routine sample modes with low specimen volume requirements allow you to obtain high quality urine particle counts on challenging patient urine collections like pediatrics.
- RFID-labeled stain reagent packaging streamlines reagent management and improves efficiency.
- Intelligent data management and customizable reflex rules allow you to standardize decision-making and perform reflex testing on only those samples that truly require it.
- Very minimal hands-on routine maintenance means laboratory staff can focus on more critical value-added tasks in the lab.

# Urinalysis Testing at the Next Level

Just when you think a solution with trusted dry-pad chemistry testing and state-of-the-art urine particle detection is enough, Sysmex offers more.



## Sysmex TH-11™ Urine Sample Decapper Unit\*

Designed to be fully integrated with the Sysmex UN-Series, the TH-11 is designed to eliminate manual decapping work, which can reduce workplace repetitive injuries, streamline work processes and reduce exposure to biologic hazards.

*\*optional*



## Sysmex Urinalysis Data Manager (UDM)

The UDM is an intelligent data management program that provides users with an intuitive and streamlined interface for urinalysis test results from the UF-5000 and Siemens CLINITEK Novus devices. The UDM supports auto-validation of results through rule-based judgments.



## BeyondCare<sup>SM</sup> Quality Monitor for Urinalysis

In everyday operation, the BCQM program increases laboratory efficiency with automated urinalysis quality control management. Quality control (QC) interpretation is simplified through an intuitive, color-coded dashboard and operator alerts when QC needs to be performed or has exceeded acceptable limits. Shift activity and QC statistical reports support and enhance regulatory compliance activities, providing your laboratory confidence in urinalysis result quality.



## Chek-Stix® Urinalysis Liquid Quality Control Kit

Chek-Stix urinalysis QC can help you streamline your daily lab operations. The liquid-ready solution means you can spend more time running patient samples and less time preparing the quality control solution. It has a 30-day open room temperature stability and is validated for use with the CLINITEK Novus.

*\*Not available for sale in Canada.*

# Siemens CLINITEK Novus®

## Technology

Dry-pad urine chemistry with color change measured by reflectance photometry. Specific gravity is measured by refractive index method, whereas clarity is measured by transmitted and scattered light.

## Parameters

### Test strip parameters:

- Glucose
- Bilirubin
- Ketone
- Blood
- pH
- Protein
- Urobilinogen
- Nitrite
- Leukocytes
- Color

### System parameters:

- Specific Gravity (S.G.) and clarity

## Throughput

- Up to 240 samples/hour

## Required sample volume

- Rack mode: 2.0 mL (Novus only);  
2.6 mL (UN-2000 combined)

## Aspiration volume

- Rack mode: 0.52 mL

# Sysmex UF-5000™

## Technology

Fluorescent flow cytometry with blue semi-conductor laser and hydrodynamic focusing in two different channels

## Quantitative Reportable Parameters

Parameters:	Analytical Measuring Range
• RBC	1.8 - 5,548.3/ $\mu$ L
• WBC	2.0 - 10,558.9/ $\mu$ L
• Epithelial Cells (EC)	1.4 - 201.7/ $\mu$ L
• Casts (CAST)	1.41 - 21.83/ $\mu$ L
• Bacteria (BACT)	4.5 - 9,821.5/ $\mu$ L

## Flagged Parameters

Crystals, Sperm, Pathologic Cast, Yeast Like Cell, Mucus

## Throughput

- Up to 105 samples/hour

## STAT Function

- Available

## Required sample Volume

- Rack mode: 2.0 mL (UF-5000 only);  
2.6 mL (UN-2000 combined)
- STAT mode: 0.6 mL

## Aspiration Volume

- 450 $\mu$ L in all modes

## Data management

- UDM (Urinalysis Data Manager)

# UN-2000 Specifications



UN-2000 benchtop configuration (includes combined analyzers and CV-11 sample conveyors only):

Approx: 51" x 36" x 35"/378 lbs. (w x d x h/wt.)



UN-2000 wagon (floor) configuration (includes combined analyzers, sample conveyors reagents and supplies):

Approx: 51" x 43" x 61"/849 lbs. (w x d x h/wt.)

## Sampler Unit Capacity

- 80 samples each in the rack entry and exit area (modular sampler)

## Sysmex Corporation

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