

Automated Urinalysis System

# UN-2000™

Thoughtful automation for a  
new level of standardization  
and workflow efficiency





## Standardization and workflow efficiency

Fluorescence flow cytometry offers highly reliable, precise and accurate particle differentiation and counts for your urine samples. Using imaging analysis alone means you have to look at the images of all the samples. By combining urine flow cytometry with digital imaging, the Sysmex UN-2000 offers today's lab a highly standardized and more efficient process for urine sediment analysis. The UN-2000 also offers simplified and consolidated quality control with BeyondCare Quality Monitor for Urinalysis (BCQM<sup>®</sup>). The first quality management system of its kind, BCQM<sup>®</sup> streamlines the end-to-end process of running controls and reviewing results while taking the guesswork out of quality control management.

## Scalable automation

First-pass accuracy and unprecedented workflow efficiency

- Increase throughput by connecting more than one module together
- Multiple instrument configuration options offer simple upsizing and downsizing
- Decreased specimen handling and result data entry minimizes the risk of clerical errors

## Urinalysis Data Manager (UDM™)

Efficiency defined. The UDM offers an intuitive interface for ease of use and provides a streamlined approach to urinalysis result management. By allowing the operator to manage instrument status and urinalysis data review in one screen, the UDM brings increased efficiency to laboratory urinalysis testing. Harness the power of the customizable rules in the UDM to further optimize your laboratory's work-flow and decrease the time to report urinalysis results.

- Extraordinarily easy to use and designed to minimize operator intervention
- One screen, comprehensive, urinalysis result management – View patient results from the UF-5000 and images from the UD-10 on a single screen
- Touchscreen for easy identification and classification of urine particles
- Efficient QC management of all analyzers from one screen
- Customizable rule settings to optimize work-flow and improve turnaround times
- Provides a single interface connection point for the UN-2000 system, resulting in streamlined integration of urinalysis data into the Laboratory Information System



## UF-5000™

### Fully Automated Urine Particle Analyzer

State-of-the-art technology from the laboratory workflow experts

- Eliminate time consuming hands-on review by screening for samples with pathological elements
- STAT and routine sample modes for flexibility in loading
- Low specimen volume requirements, ideal for pediatric population testing
- Powerful blue (488nm) laser which offers enhanced detection and differentiation of particles
- Two new analysis channels, to enhance the specificity and sensitivity of particle detection in urine sediment
- Five reportable and five flagged parameters
- Measures the scatter of depolarized light
- Enhanced Waveform Analysis for increased performance in the differentiation of casts
- Clear reagent status indication and results display on screen
- RFID labeled fluorescent stain reagents for efficient reagent management
- Can be used as a standalone analyzer or combined as part of the modular UN-Series



## UD-10™

### Fully Automated Urine Particle Digital Imaging Device

- Customize reflex criteria according to your lab's needs
- No centrifugation – Uses gentle sedimentation by gravity
- High-quality digital camera provides detailed images of urine particles
- Flexibility in viewing full field and/or individual particle images for improved classification
- Large evaluated number of particles for high sensitivity and reliability of results
- Intelligent data management with the Urinalysis Data Manager software (UDM), standard on all configurations

## BeyondCare<sup>SM</sup> Quality Monitor for Urinalysis (BCQM<sup>u</sup>)

### Quality control — simplified, consolidated

- Standardize laboratory QC practices to help minimize downtime
- Red, yellow and green color-coded alerts intuitively track and annotate quality control, simplifying compliance.
- Provides automatic alerts when QC data exceeds target
- Reminds users when QC needs to be performed
- Customizable shift activity and QC statistical reports



## UF-5000

### Key specifications

#### Technology

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

#### Quantitative Reportable Parameters

- WBC, RBC, Epithelial Cells, Cast, Bacteria

#### Flagged Parameters

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

#### Throughput

- Max 105 samples / hour

#### STAT function

- Available

#### Sampling Volume

- Sampler mode: 2 mL
- STAT mode: 0.6 mL

#### Aspiration Volume

- 450 $\mu$ L in all modes

#### Sampler Unit Capacity

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

#### Data Management

- UDM (Urinalysis Data Manager)

#### Options

- Connection of UF-5000 and or UD-10 wagon(s), rack entry and rack exit units

#### Dimensions/Weights

##### UF-5000 main unit including CV-11 sampler:

- Approx: 26" x 36" x 35"/ 232lbs. W x D x H)/wt.



## UD-10

### Key specifications

#### Technology

- Digital imaging with stage scanning method (native urine)

#### Throughput

- Max 50 samples/ hour

#### STAT function

- Available

#### Sampling Volume

- Sampler mode: 1.6 mL
- STAT mode: 0.6 mL

#### Aspiration Volume

- 300 $\mu$ L in all modes

#### Imaging Performance

- 40 whole field images/sample

#### Sampler unit capacity

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

#### Data management

- UDM (Urinalysis Data Manager)

#### Options

- Connection of UF-5000 and or UD-10 wagon(s), rack entry and rack exit units

#### Dimensions/weights

##### UD-10 main unit including CV-11 sampler:

- Approx: 26" x 36" x 35"/ 196lbs. (W x D x H)/wt.

##### UN-2000 (benchtop):

- Approx. 52" x 36" x 35"/ 428lbs. (W x D x H)/wt.

##### UN-2000 (on wagons, including feeder/collector):

- Approx. 75" x 36" x 61" (W x D x H)

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