

Urinalysis Modular System

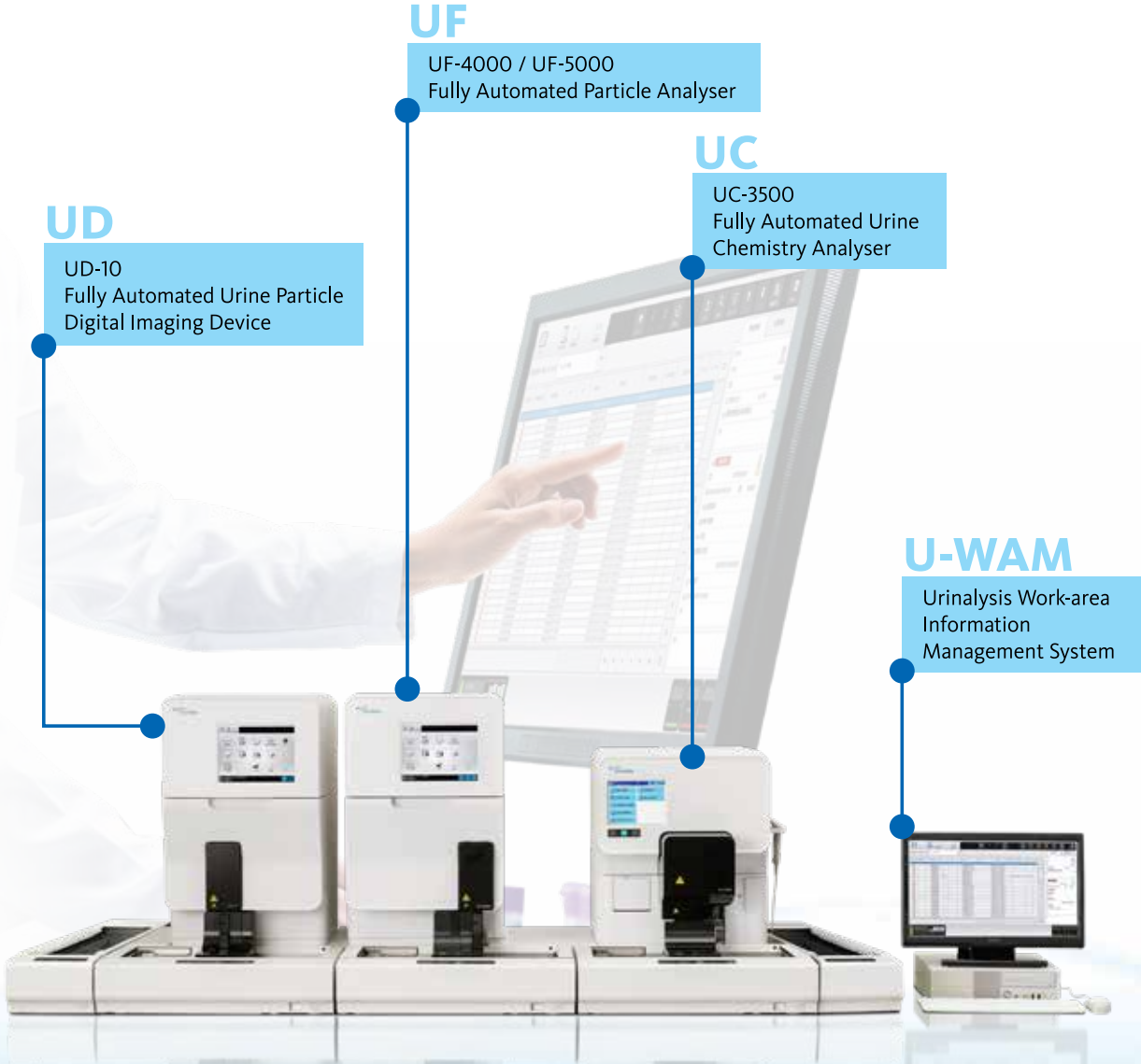
UN-SERIES

Every Drop Counts



Smart Walkaway Urinalysis System

Products at a glance

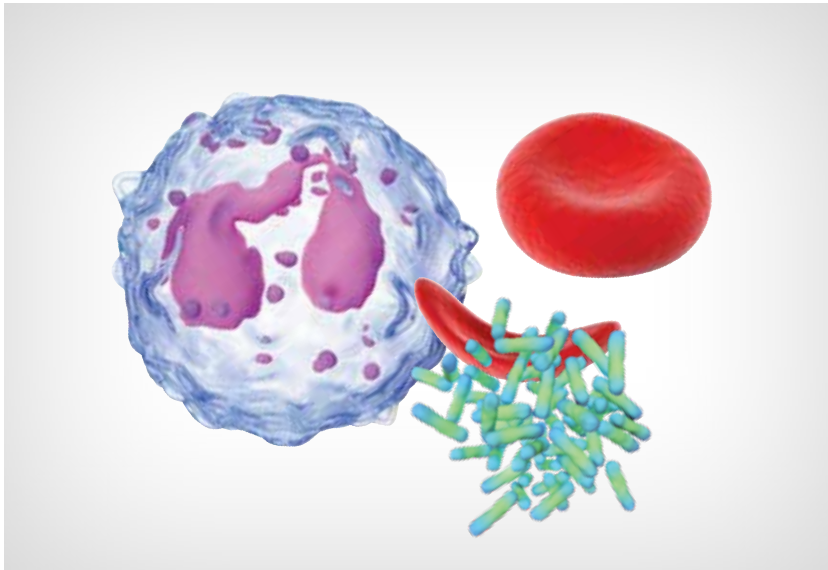


Modularity Advantage

1. Sysmex urinalysis modularity concept provides flexible and customisable configuration to improve workflow efficiency.
2. The proven technologies in UF-4000/5000 and UC-3500 deliver reliable and accurate results in particle and chemistry analysis respectively.
3. UD-10 particle digital imaging device increases clinical confidence by providing high quality images to minimise the need of manual microscopic review and repeat testing.
4. U-WAM provides single screen result management for extraordinary ease of use while improving TAT with user's predefined rule setting.
5. Intuitive user interface with colour liquid crystal touch panel offering real time verification reduces operator intervention and optimises overall workflow.



Unique Urinalysis Diagnostics



1. Clinical Value

- Screening of Urinary Tract Infection
- Differentiation between glomerular and non-glomerular haematuria
- New parameters for renal/non-renal differential diagnosis

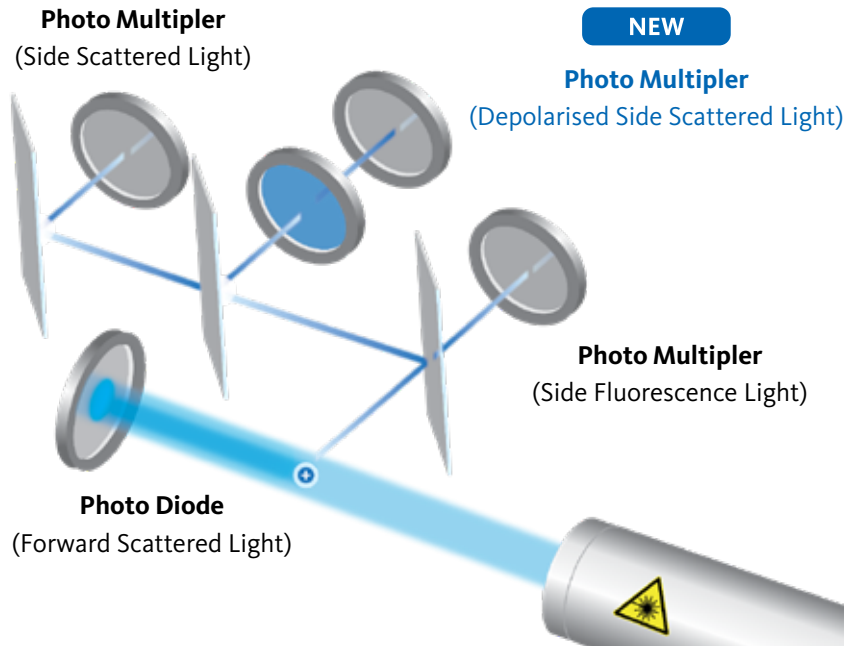


2. Modularity

- Flexible and customisable configuration to improve workflow efficiency
- Modular concept to bring urinalysis integration to new level
- Silent and compact design

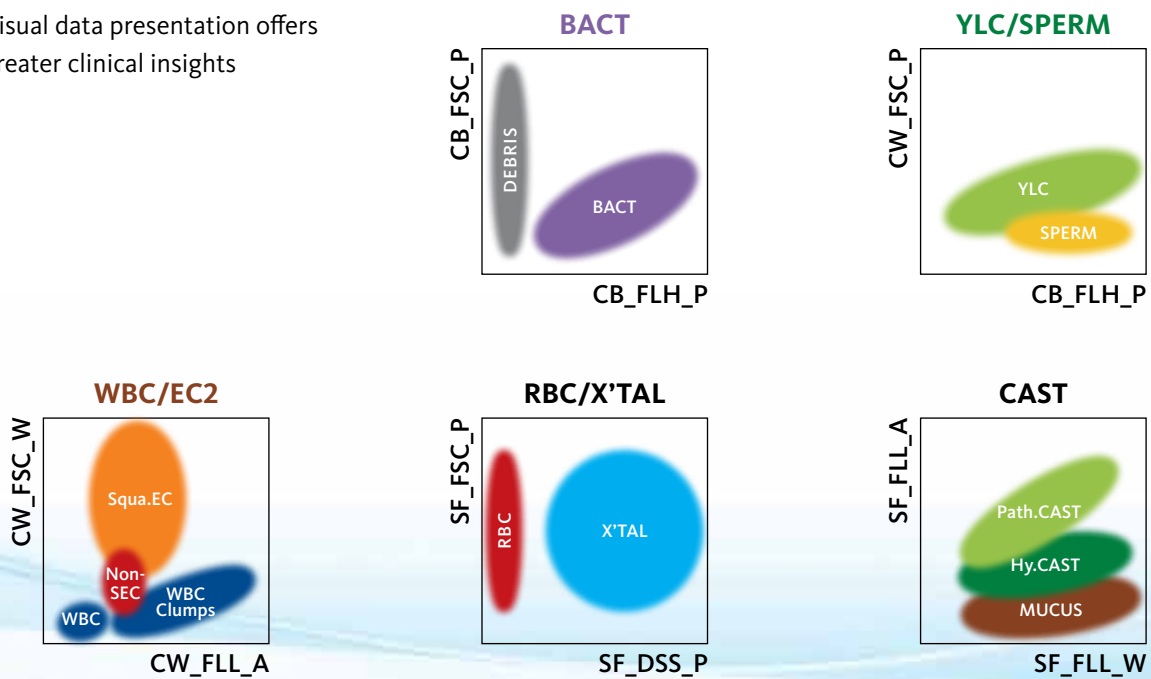
3. Advanced Technology

- Fast and reliable results from proven technology
- Short turnaround time
- Attain standardisation by eliminating subjective result interpretation



4. Scattergrams

- Visual data presentation offers greater clinical insights

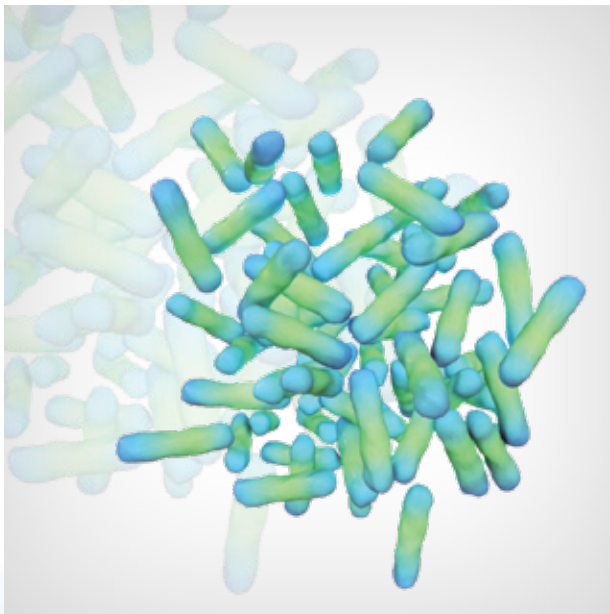


Fully Automated Particle Analyser

UF-4000 and UF-5000



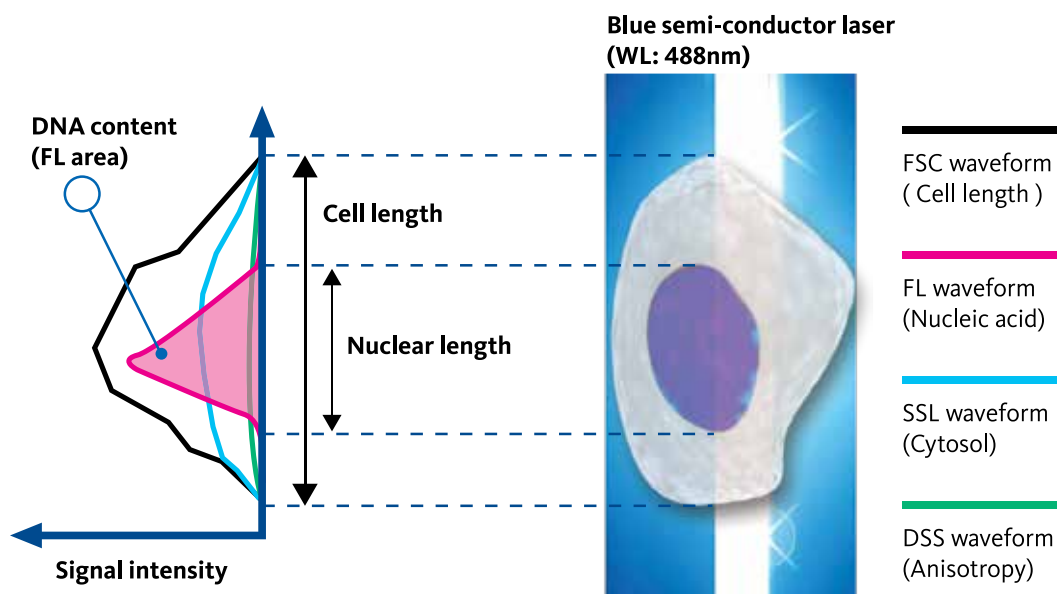
- Fluorescence flow cytometry technology to determine the characteristics of urinary particles.
- Smart channel is specifically designed for the measurement of particles' relative fluorescence intensity. Core channel and surface channel measure particles containing nucleic acid and non-nucleic acid content respectively.
- Standalone analyser or integrated with chemistry UC-3500 analyser and UD-10 urine particle digital imager as a true walkaway solution.
- Easy-to-use U-WAM software offers an extensive database for storage of data and images up to 100,000 entries.



- Sample analysis in less than one minute.
UF-4000 : 80 samples per hour
UF-5000 : 105 samples per hour
- Better manage microbiological processing needs with highly sensitive bacterial quantification.
- RBC morphology information - a useful parameter to aid diagnosis of renal disease.
- Effortlessly switch from urine to body fluid mode. This on board mode analyses up to 20 samples per hour.

Fluorescence flow cytometry provides 4 main measurement lights to determine the characteristic of the particles

- Forward scattered light (FSC) : Particle size
- Side fluorescent light (FL) : Nucleic acid content
- Side scattered light (SSL) : Complexity of particles
- Depolymerised side scattered light (DSS) : Information on anisotropy of the particle



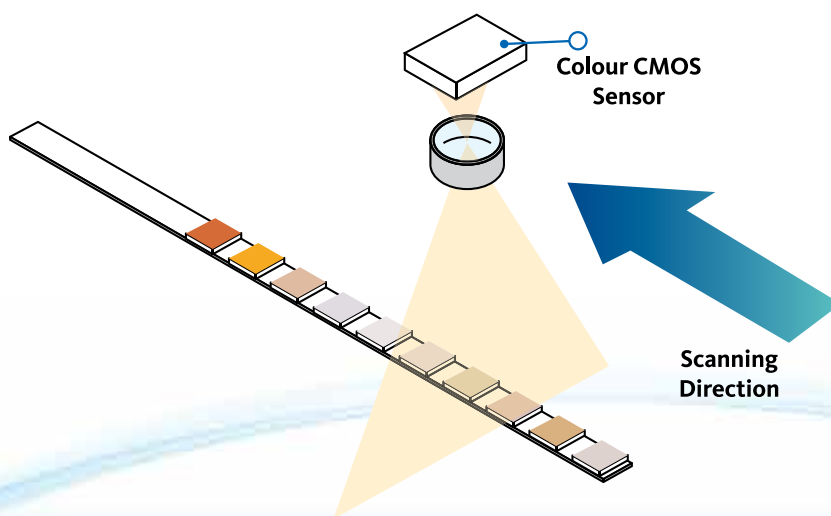
FSC, FL, SSL and DSS scattergrams are automatically generated to recognise specific and unique properties of different particles by size, labeling DNA, complexity and specific features, and so determining the particle type.

Fully Automated Urine Chemistry Analyser

UC-3500



- Fast and reliable throughput up to 276 samples per hour.
- New technology for photometry with Colour CMOS sensor.
- Additional kidney disorder screening capability with Creatinine, Albumin, Protein / Creatinine ratio and Albumin / Creatinine ratio.
- Standalone analyser or integrated with UF-4000/5000 as a true walkaway solution.



Photometry is performed with smart CMOS sensor image enabling high-accuracy measurement.

The optimised detection area of the smart sensor automatically detects test strip positioning, distinguishes haemoglobin and red blood cells and avoids abnormal colouration.



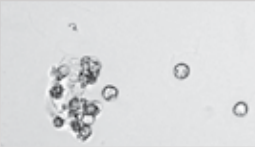

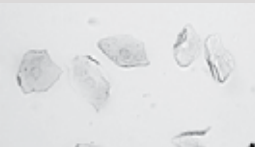


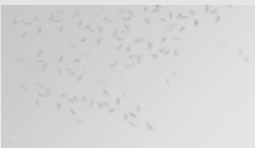

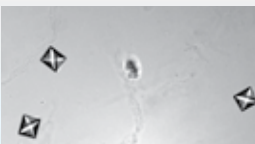
The measurements on each test pad of a test strip uses four wavelengths (430, 565, 660 and 735 nm).

Fully Automated Urine Particle Digital Imaging Device

UD-10

- An imaging device that improves efficiency and productivity in the urine testing field.
- This particle imaging device uses a high definition CCD camera to recognise the difference in luminance between the particles and the background.
- Intuitive user interface with colour liquid crystal touch panel enables real time verification without manual microscopic review.
- Throughput is 50 samples per hour. Flexible to integrate with UF-4000/5000 into a true walkaway urinalysis solution.



	Red Blood Cell		Hyaline Cast
	White Blood Cell / White Blood Cell Clumps		Fatty Cast
	Squamous Epithelial Cells		Granular Cast
	Transitional Epithelial Cells		Bacteria
	Renal Tubular Epithelial Cells		Crystal

Sysmex Urinalysis System: Customisable Solutions

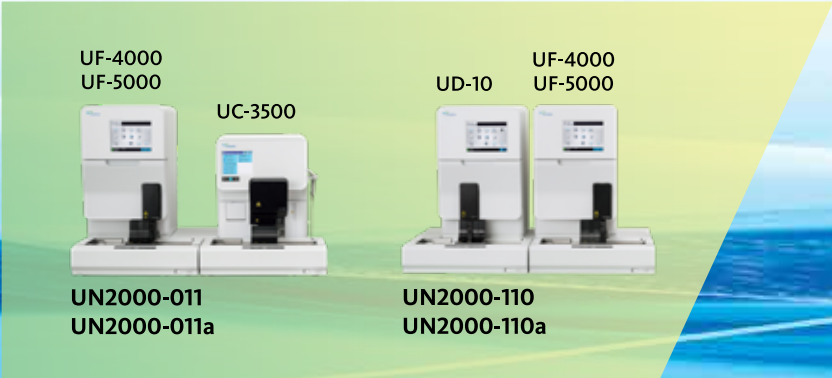
UN-9000



UN-3000



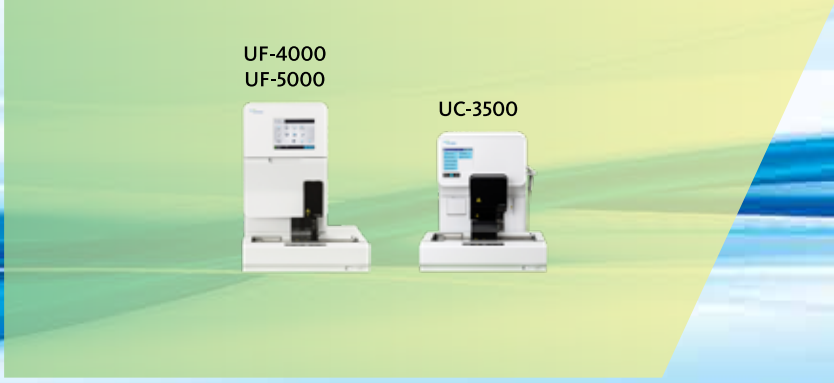
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**The above configurations are for illustrative purpose only and may be subjected to change without notice.*



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