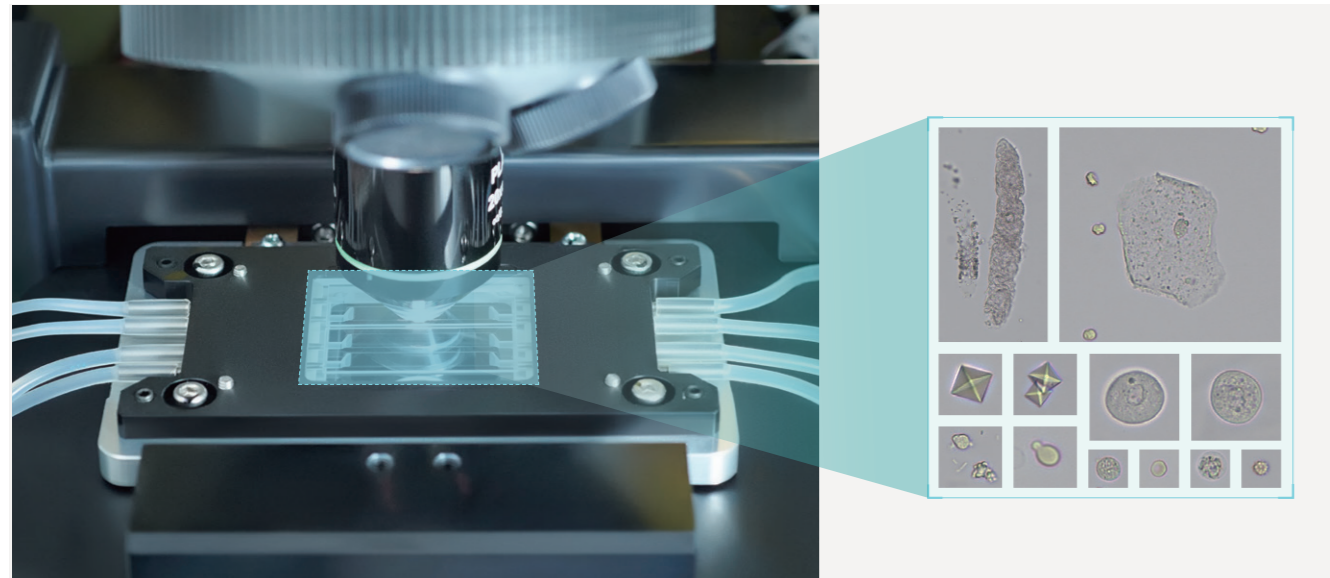
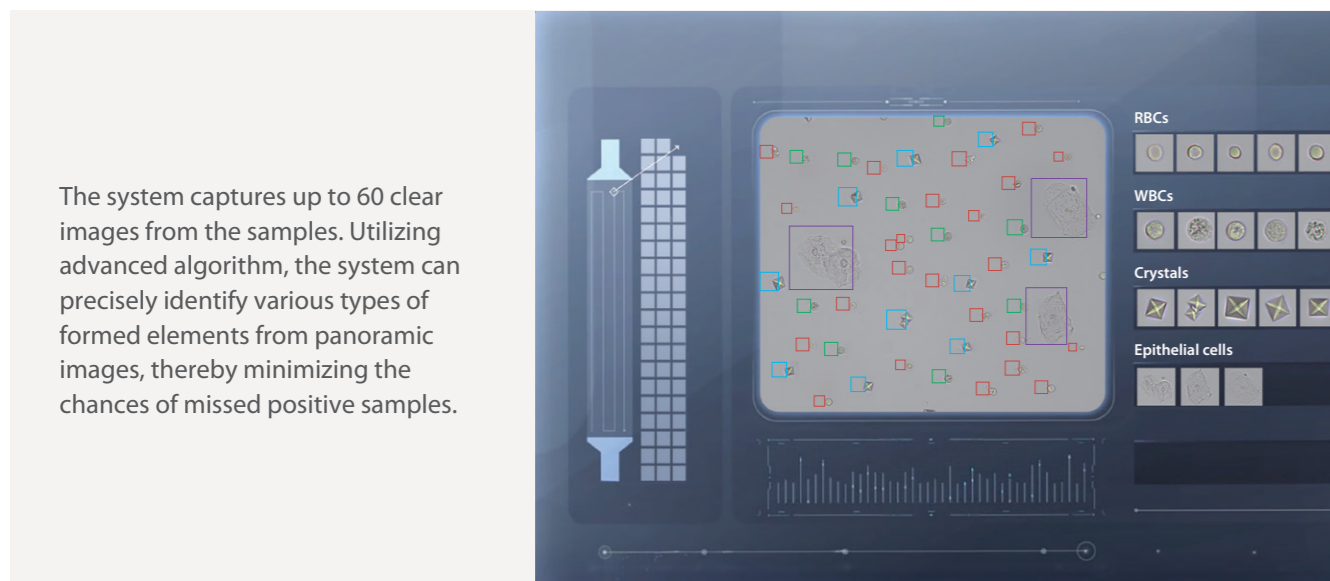


## 2K full-color clear imaging, reducing the rate of manual microscopic review for positive samples

Colorful imaging technique which is close to manual microscopic satisfies what you need for releasing a report



## High analysis volume for sediment particles to avoid missed diagnosis of positive samples



The system captures up to 60 clear images from the samples. Utilizing advanced algorithm, the system can precisely identify various types of formed elements from panoramic images, thereby minimizing the chances of missed positive samples.

## EU-5300 Pro Automated Urinalysis System

### Testing principles

**Dry chemistry:** Photoelectric colorimetry, refractometry, and Nephelometry method.

**Formed elements:** Machine vision (Digital imaging technology)

### Reportable parameters

**Physical:** Specific gravity, color, and turbidity

**Dry chemistry:** 11/14 items

LEU, leukocyte	NIT, nitrite
URO, urobilinogen	pH, power of hydrogen
PRO, protein	BLD, erythrocyte
BIL, bilirubin	MCA, micro albumin
GLU, glucose	CRE, creatinine
VitC, vitamin C	CA, calcium
SG, specific gravity	P/C, protein-to-creatinine ratio*
KET, ketones	A/C, microalbumin-to-creatinine ratio*

Note: Parameters indicated with an asterisk (\*) are intended for calculated parameters

**Formed elements:** 31 kinds

RBCs (total)	BACT, bacteria
Normocytic, Nor-RBC	BACTc, coccus
Macrocyte, Mac-RBC	BACTr, rod
Microcyte, Mic-RBC	YST, Yeast
Crenocyte, Cre-RBC	Squamous epithelial cell, SEC
Annular RBCs, Ann-RBC	Non squamous epithelial cell, NEC
Acanthocytes, Aca-RBC	CRYS, Crystals
Humped Spherocytes, Hpd-RBC	Mono-hydrate calcium oxalate crystal, Caoxm
Jagged RBCs, Jag-RBC	Di-hydrate calcium oxalate crystal, Caoxd
Ghost RBCs, Gho-RBC	Uratic crystal, URA
Fragmented RBC, Fra-RBC	Triple phosphate crystal TRP
Other abnormal RBCs, Oab-RBC	HYAC, hyaline cast
Anisocytosis Ratio, Ani-Ratio	UNCC, unclassified cast
MorInfo-RBC	MUC, mucous strands
WBC, white blood cells	Sperm, SPRM
WBCC, white blood cells clump	

### Throughput

**Dry chemistry mode:** ≥160 tests/ hour

**Formed element mode:** ≥70 tests/ hour

**Hybrid mode:** ≥70 tests/ hour

### Automated focusing

The system automatically performs the focusing process, without the need for manual operation or the use of focus reagents

### STAT function

Independent STAT positions for emergency samples at any time

### Strips loading capacity

200

### Sample Volume

2.5ml minimum required sample volume

### Sample type

Native urine sample

### Barcode

Built-in barcode reader

### Tube specification

Length ≤110mm Diameter 15-16mm

### Communication

Bi-direction LIS, automated barcode identification for testing

### Dimensions and Weight

WxDxH: 600x770x530(mm) / ≤71.5Kg



## EU-5300 Pro Automated Urinalysis System

# Unveiling the Unseen by Unlocking Unparalleled Clarity



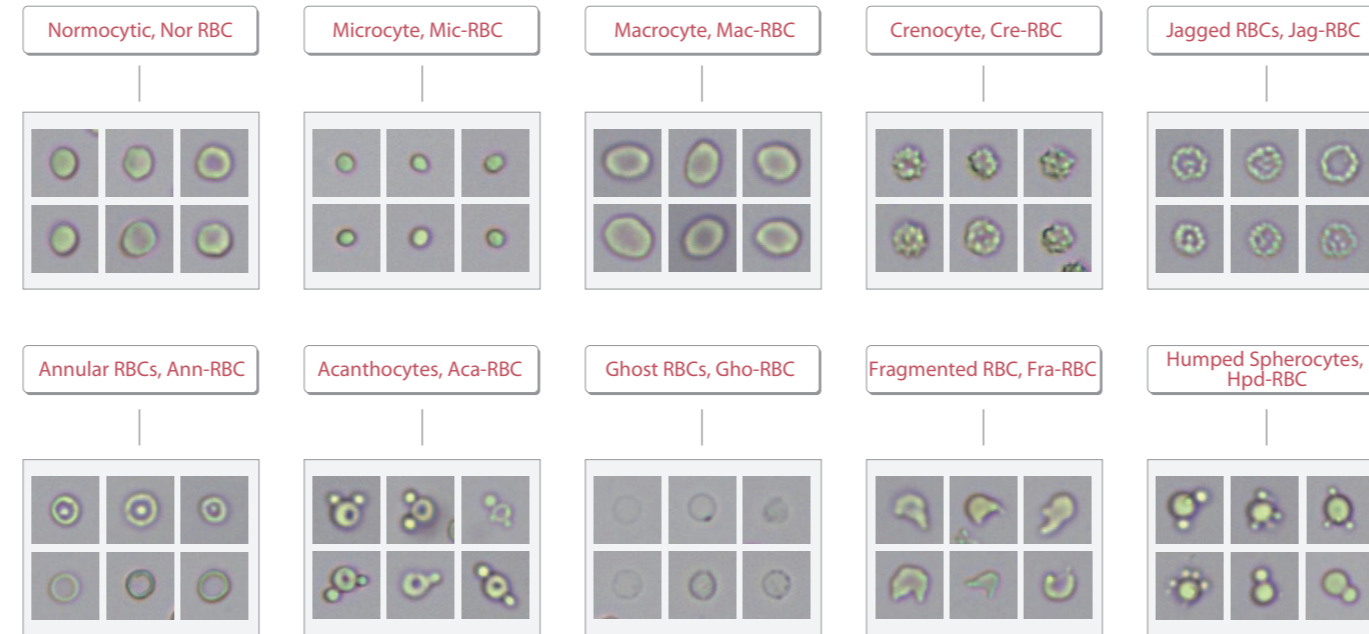
## Three features integrated in a single system to manage the unique workflow needs of your lab

The integration of dry chemistry, formed element, and RBC phase analysis leads to a great improvement in time and space management efficiency. Even a single person can easily manage the TAT requirements during the peak hours of your lab.



## Coming standard with RBC phase parameters to help rapidly identify the source of hematuria

The system can automatically provide parameters for various types of urinary RBCs, presenting histograms that clearly depict the size, shape, and hemoglobin content of these cells. By analyzing the results of RBC morphological variations (MorInfo-RBC: homogeneous/heterogeneous/mixed) and utilizing RBC morphological images, a thorough review and validation process can be conducted to identify the source of hematuria rapidly and precisely.

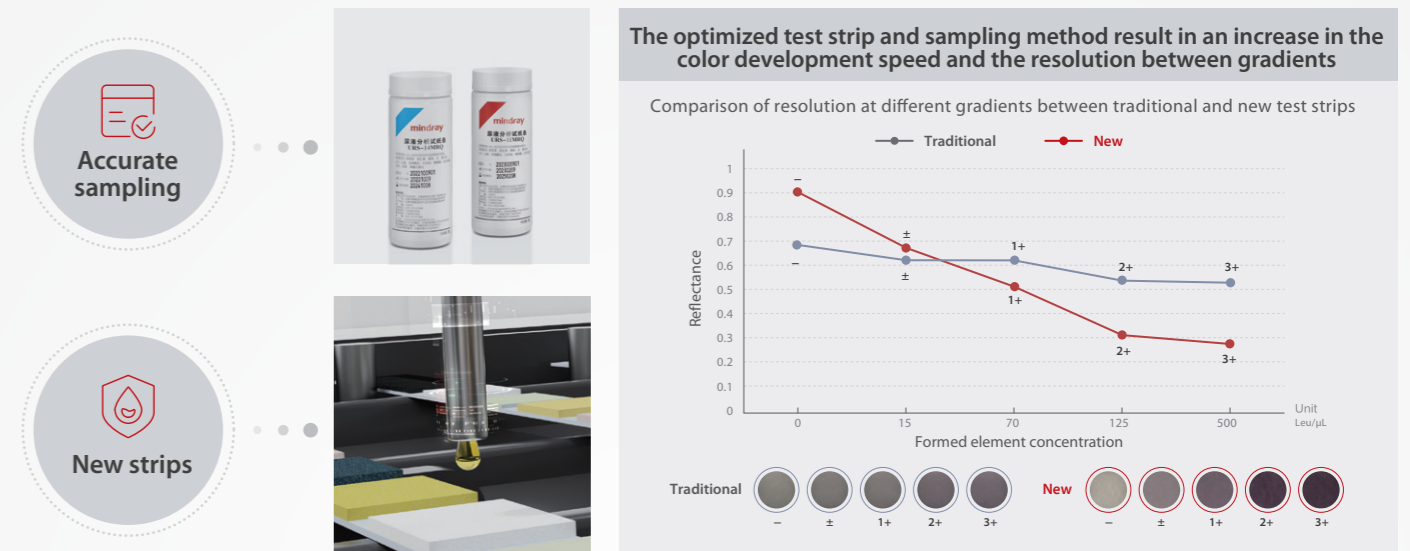


### RBC phase histograms showing the reference ranges and their clinical significance

	RBC size histogram	RBC shape histogram	RBC chroma histogram
	Ratio Reference range: [40, 90] Area	Ratio Reference range: [0.8, 1.0] Roundness	Ratio Reference range: [25, 55] Saturation
Unit of measurement	um <sup>2</sup>	Dimensionless	Dimensionless
Normocytic, Nor-RBC	40-90	0.8-1.0	25-55
Macrocyte, Mac-RBC	50-85	0.75-1.0	25-55
Microcyte, Mic-RBC	20-55	0.8-1.0	35-60
Crenocyte, Cre-RBC	15-50	0.75-1.0	35-60
Annular RBCs, Ann-RBC	15-70	0.7-1.0	10-50
Acanthocytes, Aca-RBC	45-80	0.6-0.9	30-60
Humped Spherocytes, Hpd-RBC	40-85	0.55-0.8	25-55
Jagged RBCs, Jag-RBC	20-75	0.75-1.0	10-50
Ghost RBCs, Gho-RBC	10-50	0.75-1.0	5-18
Fragmented RBC, Fra-RBC	20-55	0.6-0.9	30-60
Clinical significance	Left shift indicates an increase in size Right shift indicates a decrease in size	The roundness decreases when there is any abnormality	Left shift indicates a decrease in hemoglobin concentration Right shift indicates an increase in hemoglobin concentration

## Dry chemistry analysis delivers precise results that are better aligned with the analysis of formed elements

The test strip for dry chemistry analysis are optimized to enable precise sampling, thereby ensuring accurate results, consistent performance, and greater ease of use.



## Safety and ease of use, and efficient review

The system supports running urine samples with closed tubes, ensuring enhanced levels of biosafety. With the inclusion of Mindray data management software—LabXpert, the system shows dry chemistry, urine formed elements, and RBC phase results on a single screen, significantly improving the efficiency of report validation.

