

- Fully automated testing
- Single sample position
- Manual sample loading
- Single-channel flow counting cell
- Testing speed: 30 samples/hour
- Repeatability: CV<7%
- Carry-over rate: 0
- Sample requirements: Crude urine can be tested directly without centrifugation.
- Cost-effective, intended for clinics or small laboratories with less than 20 samples per day
- Built-in computer with monitor
- The most popular urine sediment analyzer in small domestic laboratories (hundreds of domestic users)

# Mispa U30

## Urine Sediment Analyzer



### Test Items

Deep learning AI recognition function, the ability to recognize substances in urine is 60-95%. Analysis and labelling of more than 30 formed elements in urine. (Red Blood Cells, White Blood Cells, Epithelial Cells, Casts, Crystals, Mucus Strands, Fungi, Sperm, etc.), automatic analysis of poikilocyte ratio on morphology (red blood cell phase).

### Working Principle

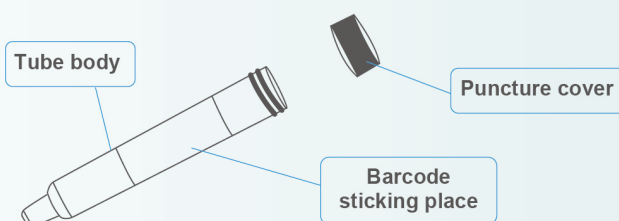
Using modern machine vision technology, the formed elements in urine can be automatically photographed, identified, classified and quantitatively counted by automatic morphological approach of the microscope.

# Mispa U30

Urine Sediment Analyzer

## Urine Sample Collection Tube (Main Component)

- Tube body
- Bar code sticking place
- Puncture cover



## Mispa-U30 Related Products Catalogs

| Product name                     | Specifications  | Purpose                                                                   |
|----------------------------------|-----------------|---------------------------------------------------------------------------|
| Urine Analyzer Diluent Solution  | 2 L/bucket      | Clean the pipeline system between tests to avoid carry-over.              |
| Urine Analyzer Cleaning Solution | 500 mL/bucket   | Clean the pipeline system during shutdown.                                |
| Maintenance solution             | 100 mL/bucket   | Maintain and deep clean the liquid pipeline system of the urine analyzer. |
| Urine Sample Collection Tube     | 2000 pcs/carton | Collect, transport and storage urine samples.                             |

| Product name                            | Model and name              | Specifications              | Purpose             |
|-----------------------------------------|-----------------------------|-----------------------------|---------------------|
| Urine Sediment Analyzer Quality Control | UQC-01 High-level           | 10ml/bottle, 4 bottles/box  | For quality control |
|                                         | UQC-02 Middle-level         | 10ml/bottle, 4 bottles/box  |                     |
|                                         | UQC-03 Low-level            | 10 ml/bottle, 4 bottles/box |                     |
|                                         | UQC-04 Level of sensitivity | 10 ml/bottle, 4 bottles/box |                     |

## The Main Technical Parameters

|                                     |                                                                                                                                                                               |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Testing speed:</b>               | 30 samples / hour.                                                                                                                                                            |
| <b>Sample volume:</b>               | minimum urine volume of 2mL, minimum aspiration volume of 0.5mL (can be adjusted based on the actual urine volume).                                                           |
| <b>Reporting mode:</b>              | XX pcs/ $\mu$ l (international quantitative unit), or XX pcs/HPF (qualitative report); combined graphic report of dry chemistry and quantitative analysis of formed elements. |
| <b>Sampling method:</b>             | puncture sampling.                                                                                                                                                            |
| <b>Sample treatment:</b>            | automatic dilution, mixing, filling into counting cell; reverse emptying, reverse washing and forward washing of counting cell.                                               |
| <b>Counting cell:</b>               | high-precision constant-flow counting cell.                                                                                                                                   |
| <b>Sample loading and adding:</b>   | open loading of sample through test tube, adding of sample through high-precision syringe.                                                                                    |
| <b>Testing sensitivity:</b>         | < 5 pcs/ $\mu$ l                                                                                                                                                              |
| <b>Detectability:</b>               | 95% or higher (assisted by human judgment).                                                                                                                                   |
| <b>Accuracy:</b>                    | 98% or higher (assisted by human judgment).                                                                                                                                   |
| <b>Consumables:</b>                 | test tube, sample diluent, cleaning solution, maintenance solution and quality controls.                                                                                      |
| <b>Data interface:</b>              | a full set of computer data interfaces that can be connected to any type of dry chemistry urine analyzer, printer and network.                                                |
| <b>Network function:</b>            | can be networked with LIS and HIS for information sharing and remote diagnosis.                                                                                               |
| <b>Data storage:</b>                | testing data of more than 150,000 samples (including sample parameters and sample graphics).                                                                                  |
| <b>Power requirements:</b>          | AC 220V+10%, 50HZ.                                                                                                                                                            |
| <b>Standard configuration:</b>      | self-contained workstation, built-in computer, standard monitor, mouse, keyboard; optional laser printer.                                                                     |
| <b>Working with urine analyzer:</b> | support data transfer with any urine analyzer.                                                                                                                                |
| <b>Host dimensions:</b>             | 495 x 348 x 527mm.                                                                                                                                                            |
| <b>Host weight:</b>                 | about 20kg (excluding external display).                                                                                                                                      |

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