



UF



# UF-4000

Fully automated urine flow cytometer



Shaping the Advancement of Healthcare

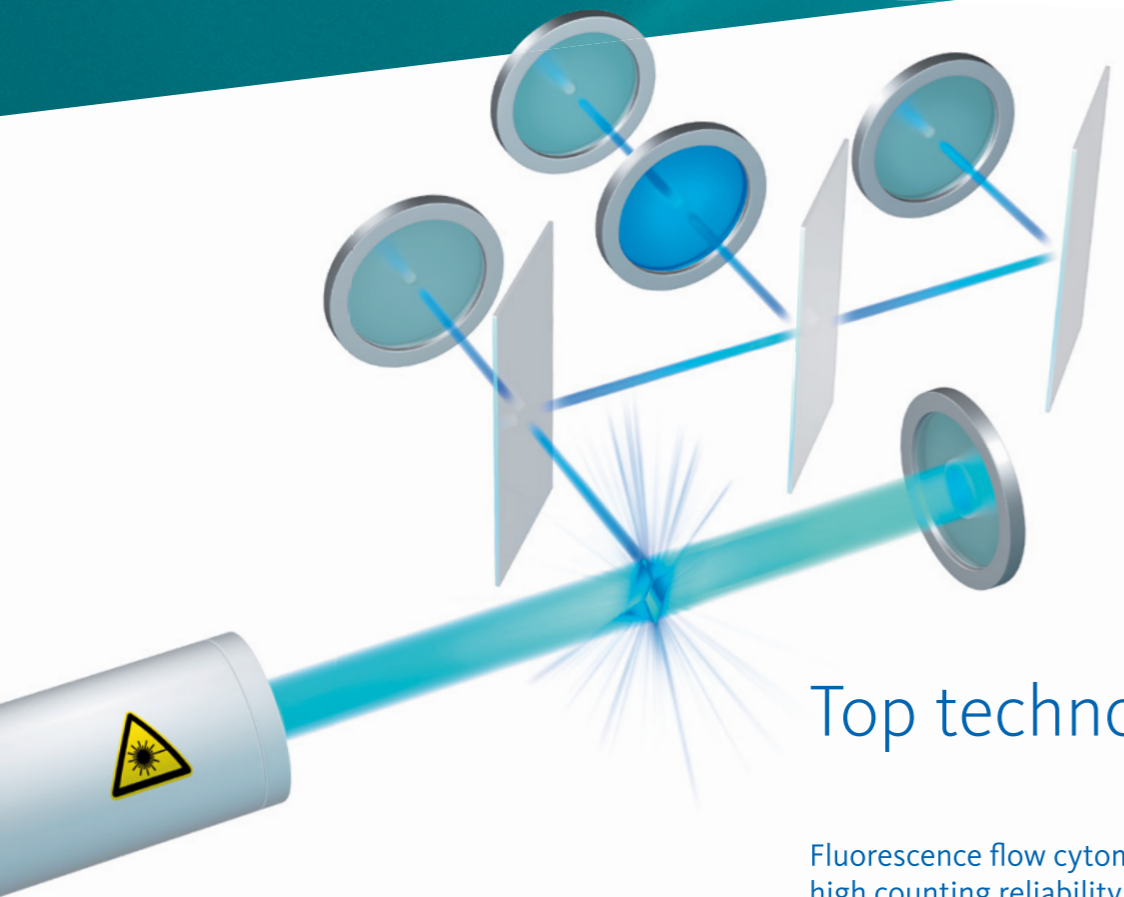
# What's in it for you?

## Sensitive and fast urinary sediment analysis

Rely on thousands of particles counted and classified from your native urine samples

## Body fluid analysis always on board

Accelerate and standardise analysis of your most delicate samples



## Top technology

Fluorescence flow cytometry for high counting reliability

Superior differentiation of particles:

- Powerful blue (488 nm) laser
- Two different analysis channels
- All particles are analysed by multiple signals
- Depolarised side scattered (DSS) light signal

Fast, precise and accurate analysis

## Substantial diagnostic information

- Quantitative, highly sensitive and specific bacteria count incl. differentiation according to Gram-stain behaviour; helps decrease bacterial antibiotic resistance
- Differentiation of epithelial cells and casts – direct counts for squamous, non-squamous, transitional and renal tubular epithelial cells, as well as hyaline and pathological casts
- Marked discrimination between red blood cells and crystals by the new DSS signal



## Intelligent data management with U-WAM

- Clear reagent status indication and result display on one screen
- Rule-based workflow management and result interpretation

## Valuable body fluid analysis

- Quantitative bacteria determination – delivers immediate answers for bacterial infections
- White blood cell differentiation into mononuclear and polymorphonuclear cells – find the root cause of infections faster



## State-of-the-art reagent and QC management

- Stay on the safe side with our SNCS network – daily external QC without any additional measurement
- New cartridge system with RFID labels makes changing reagents safe and easy



# Key benefits

## Modular and scalable

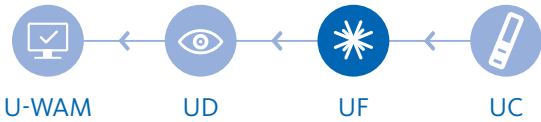
- Automate your urinalysis workflow by adding the components you need: UC-3500 and/or UD-10, all controlled by U-WAM
- Multiply your throughput by connecting more than one UF-4000 together

## Superior diagnostics

- Superb differentiation of urine particles
- Up to 27 parameters per urine sample
- Know about UTI in less than a minute

## Powerful body fluid analysis

- Available 24/7 by the switch of a button
- No sample pre-treatment necessary
- Nine parameters incl. bacteria count and WBC differentiation



## Key specifications

### Technologies

fluorescence flow cytometry with blue semi-conductor laser and hydrodynamic focussing in two different channels  
conductometry

### Parameters

Urine

RBC, NL RBC, WBC, WBC Clumps, EC, Squa.EC, Non SEC, Tran.EC, RTEC, CAST, Hy.CAST, Path.CAST, BACT, X'TAL, YLC, SPERM, MUCUS, Lysed RBC, SRC, DEBRIS, conductivity, osmolality, ...  
Flags: RBC-Info, BACT-Info, UTI-Info

Body fluid

RBC, WBC, MN#, MN%, PMN#, PMN%, EC, TNC, BACT

### Throughput

urine: max. 80 samples / hour  
body fluid: max. 15 samples / hour

### Sampling volume

sampler mode (urine): 2 mL  
STAT mode (urine/body fluid): 0.6 mL

### Aspiration volume

450 µL in all modes

### Sampler unit capacity

integrated stand-alone sampler: 50 samples/loading area; 70 samples/exit area  
modular sampler: 80 samples/each area

### Data management

U-WAM (Urinalysis Work Area Information Management System)

### Options

connection of UC-3500 and/or UF-5000/4000 and/or UD-10 wagon(s), rack entry and rack exit units

### Dimensions / weights

W x H x D [mm/kg]

main unit incl. sampler:  
approx. 760 x 855 x 754 / 90

Design and specifications may be subject to change due to further product development.  
Changes are confirmed by their appearance on a newer document and verification according to its date of issue.

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