

Semi-automated urine particle analyser

# UF-1500



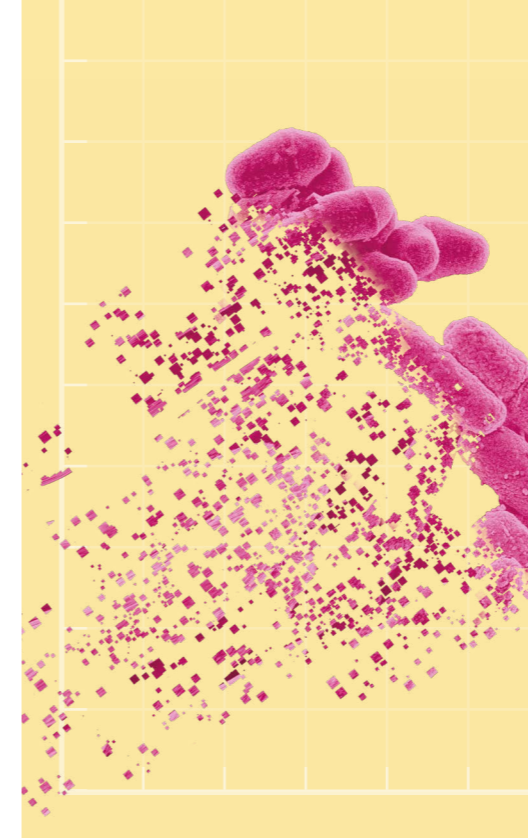
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healthcare journey

# Proven technology, compact size

The UF-1500 is an ideal solution for small to medium-sized labs seeking the latest urinary fluorescence flow cytometry technology to automate manual workflow procedures. Despite being approximately 30% smaller than our flagship model UF-5000, the UF-1500 delivers the same quality and reliability using proven fluorescence flow cytometry (FFC) technology.

## Flexible by design

Compact, lightweight, and adaptable, the UF-1500 can be tailored to your workflow. Operate it standalone, pair it with a sampler unit for higher throughput, or integrate it into the UN-Series for a fully connected urinalysis solution. Whatever your setting, the UF-1500 fits right in.



## Ruling out UTI in less than a minute

The UF-1500 rules out urinary tract infections in less than a minute, easing the burden on laboratory staff and enabling faster decision-making (REF1/2). Equipped with the BACT Info flag, it not only detects bacteria but also provides additional morphological insights, thereby supporting targeted follow-up diagnostics (REF3). By optimising laboratory workflows, the need for urine cultures and decision making on antibiotic treatment, it also contributes to diagnostic stewardship and supports the global fight against antimicrobial resistance (AMR)(REF4).

## Comprehensive insight with UC-3500

Combined with the UC-3500, the UF-1500 extends urinalysis to a complete solution for both chemistry and particle analysis. Together, they support the early detection of chronic kidney disease through albumin/creatinine ratios (REF5) and advanced red blood cell parameters (REF6) – providing a complete picture of kidney health.



# 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, Atypical cells, DEBRIS, conductivity, osmolality, and more Flags: RBC-Info, BACT-Info, UTI-Info
Throughput	60 samples/hour (max.)
Sampling volume	2 mL (sampler mode), 0.6 mL (STAT mode)
Aspiration volume	0.68 mL (sampler mode), 0.52 mL (STAT mode)
Sampler unit capacity (SA-52)	50 samples (entry area), 50 samples (exit area)
Interface (optional)	U-WAM
Web application (optional)	Caresphere™ XQC
Dimensions/weight W × H × D [mm/kg]	Analyser: approx. 550 × 630 × 560/52 Main unit (incl. SA-52): 630 × 630 × 626/60 Pneumatic unit: 280 × 400 × 355/17

## References

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- [2] **Gilboe HM, Reiakvam OM, Aasen L, Tjade T, Bjerner J, Ranheim TE, Gaustad P.** Rapid diagnosis and reduced workload for urinary tract infection using flowcytometry combined with direct antibiotic susceptibility testing. *PLoS One.* 2021 Jul 6;16(7):e0254064. doi: 10.1371/journal.pone.0254064. PMID: 34228764; PMCID: PMC8259986.
- [3] **Sender V, White JK, Bolinder L, Amilon K, Hägg M, Bhattarai KH, Björkström NK, Saeedi B.** Flow cytometry for screening and prioritisation of urine samples: a retrospective comparison with culture. *BMC Infect Dis.* 2025 Jul 30;25(1):960. doi: 10.1186/s12879-025-11374-8. PMID: 40739551; PMCID: PMC12312330.
- [4] **Flores E, Martínez-Racaj L, Blasco Á, Díaz E, Esteban P, López-Garrigós M, Salinas M.** A step forward in the diagnosis of urinary tract infections: from machine learning to clinical practice. *Comput Struct Biotechnol J.* 2024 Jul 25;24:533-541. doi: 10.1016/j.csbj.2024.07.018. PMID: 39220685; PMCID: PMC11362637.
- [5] **López-Garrigós M, Puig E, Sánchez S, Gutiérrez I, Salinas M, Ortiz A, Flores E.** A Pilot Study of Opportunistic Chronic Kidney Disease Screening in Primary Care Using a Clinical Decision Support System. *Diagnostics (Basel).* 2025 Dec 19;16(1):8. doi: 10.3390/diagnostics16010008. PMID: 41515503; PMCID: PMC12785800.
- [6] **Cho H, Yoo J, Kim H, Jang H, Kim Y, Chae H.** Diagnostic Characteristics of Urinary Red Blood Cell Distribution Incorporated in UF-5000 for Differentiation of Glomerular and Non-Glomerular Hematuria. *Ann Lab Med.* 2022 Mar 1;42(2):160-168. doi: 10.3343/alm.2022.42.2.160. PMID: 34635609; PMCID: PMC8548254.



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