

UniVerse[®]

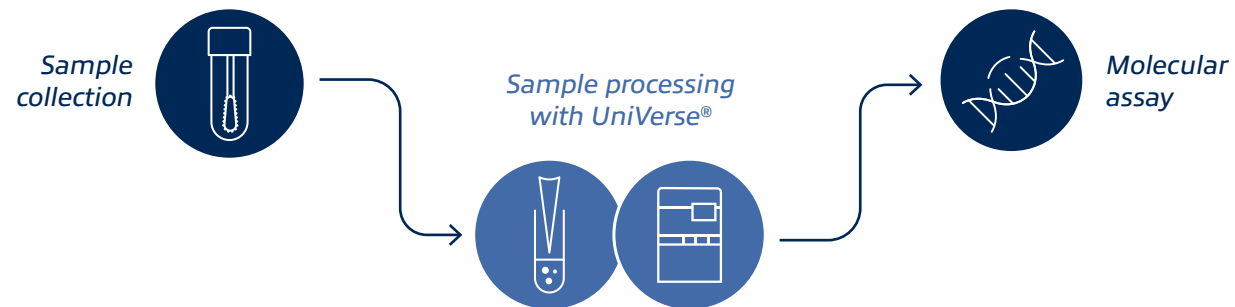
Flexible, Open Solution for Molecular Sample Preparation



Copan
innovating together



SIMPLIFY UP FRONT SAMPLE PROCESSING for molecular diagnostics sample pre-processing. UniVerse® automatically manages accessioning, labeling, vortexing, and aliquoting into assay tubes and 96 deep well plates. The system is fully LIS interfaced, and increases laboratory throughput with complete traceability, reliability and accuracy.¹



ID scan

UniVerse® recognizes inbound sample barcode and matches the sample to the LIS data.

Vortex

Select from various vortex or spin protocols based on sample or collection device type.

Decap

Two independent robots for the simultaneous decapping of primary or secondary tubes.

Aliquot

The third pipettor-equipped arm transfers sample aliquots to tubes or assay plates.

Recap

The robotic arms recap both primary and secondary tubes.

Label and Reconcile

UniVerse® applies a custom label to output tubes and synchronizes with LIS.



Input and Output Flexibility

UniVerse® processes multiple tube sizes and swab types without requiring the manual removal of the swab.

UniVerse® comes with a customized plate holder to fit your specific assay plates.



Continuous Loading and Unloading

Easy access for continuous specimen loading and unloading without pausing the instrument.



Efficiency

Laboratories maintain consistent and precise processing, freeing staff for high level interpretation and diagnostic tasks.^{1,2}



Keep the Sample in Sight

UniVerse® manages barcode reading, labeling, barcode printing, ID synchronization with LIS and output ID mapping.



Your Workflow, Improved

By reducing manual touchpoints and hands-on time, UniVerse® avoids the risk of cross-contamination and errors.

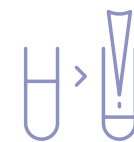


Compatibility

UniVerse® can be used to prepare specimens for most molecular assays.

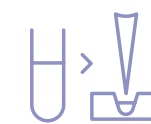


4 Protocols for Maximum Flexibility



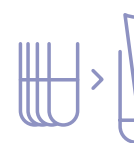
Tube to Tube

From 1 primary sample to 1 secondary tube.



Tube to Plate

From 1 primary sample to 1 secondary well.



Tube Pooling

Pooling multiple primary samples into 1 secondary tube.

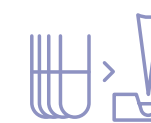


Plate Pooling

Pooling multiple primary samples into 1 single plate-well.

UniVerse®

- 1 Three independent robotic arms manage primary and secondary tubes.
 - Decapping and recapping
 - Labeling
 - Pipetting and aliquoting
- 2 Class II biosafety laminar flow hood eliminates cross contamination risk and ensures the highest safety for laboratory staff
- 3 Double vortex station with protocols to manage various sample types
- 4 Centrifuge
- 5 Integrated barcode readers scan incoming samples and match to LIS data
- 6 Label printer for secondary tubes applies a custom label to output tubes and synchronizes to LIS
- 7 Auto-closing tip waste bin
- 8 Touchscreen user interface monitor

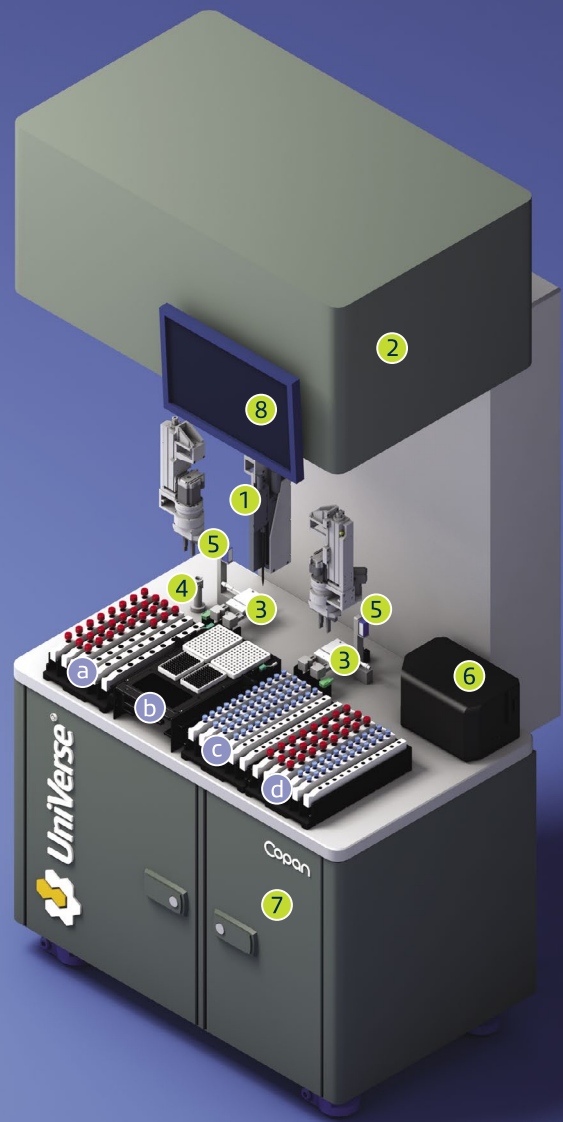
UniVerse® Racking System

- a Input racks for primary containers
- b Assay plates and tips rack
- c Input racks for secondary containers
- d Output racks for secondary containers*

Optional Modules:

- Turntable for HPV Molecular Testing
- QuantiFERON Sample Processing
- Reagent Closet for Custom Lysis Buffer Solutions

* May be converted to input for primary tubes on assay plate protocols



Technical Information

Inoculation Volumes	10µl to 1000µl
Liquid Handling Accuracy	1000 µl: ≤ 1% 100µl: ≤ 2%
Filtration type	HEPA
Biosafety certification	Field cert. NSF/ANSI 49 Class II

Dimensions (inches)	W 52 / D 39 / H 92
Weight (lbs.)	1,361
Noise Emissions	Max 55 Db
Thermal Output	2900 BTU
Peak Power Consumption	1100 W

Scientific References

- 1 Chan, M., Tran, A., et al. (2024). *Workflow comparison and evaluation of an automated instrument for handling sample preparation in clinical laboratory.* Poster presented at the Canadian Association for Clinical Microbiology and Infectious Diseases (CACMID) Annual Meeting, Vancouver, BC, Canada.
- 2 Chan, M., Tran, A., et al. (2024). *Validation of an automated instrument for handling specimen preparation.* Poster presented at the European Congress of Clinical Microbiology & Infectious Diseases (ECCMID), Barcelona, Spain.

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