



MILESTONE
H E L P I N G
P A T I E N T S



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YOUR VISION.
OUR INSPIRATION



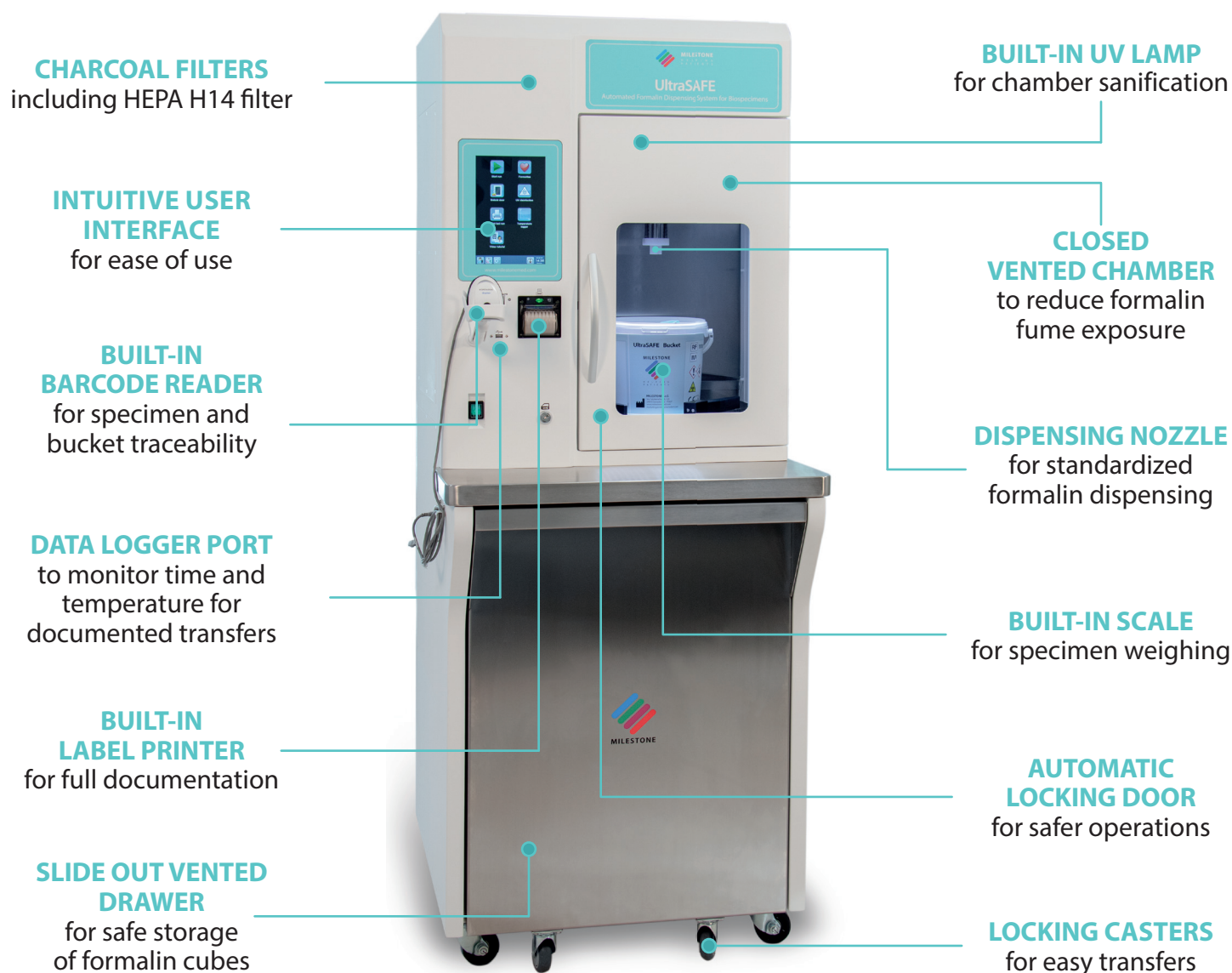
STANDARDIZED SPECIMEN COLLECTION WITH SAFE FORMALIN HANDLING



UltraSAFE
Automated Formalin
Dispensing System

AUTOMATED PROCESSES FOR SAFER WORKING ENVIRONMENTS

UltraSAFE is an innovative formalin dispensing system that allows OR personnel and perioperative nurses to handle specimens with the highest level of safety. **It automatically dispenses formalin into dedicated buckets through an injection system within a vented chamber, safeguarding the operator from exposure to formalin fumes***. Formalin is dispensed according to the specimen's weight and specific lab guidelines, minimizing waste and standardizing the collection process. Additionally, all the relevant information, including collection time, specimen weight and formalin quantity, is recorded on a printed label which is applied on the bucket, ensuring comprehensive documentation.



**UltraSAFE allows to reduce formalin exposure within the limits defined by WHO (World Health Organization).
The device must be installed according to Milestone's instructions.*



PROTECTION AGAINST FORMALIN EXPOSURE

STANDARDIZED DISPENSING

DETAILED DOCUMENTATION

ADVANCED BUCKET TECHNOLOGY

SAFE SPECIMEN TRANSFER

THE GAME CHANGER FOR FORMALIN CONTROL

| PROTECTION AGAINST FORMALIN EXPOSURE

Despite its numerous significant drawbacks, **formalin continues to be the standard fixative for collecting and preserving biospecimens in today's laboratories.** It has been declared carcinogenic, mutagenic, and reprotoxic to humans by several agencies. Since April 2015, formalin has also been classified as a Category 1B carcinogen and a Category 2 mutagen under EU regulations. The current European legislation has introduced several directives to better manage workflows involving formalin, including the use of closed systems designed to minimize exposure and maintain it within safe limits. **UltraSAFE controls formalin dispensing and reduces exposure to formalin fumes and spills***, enabling operators to manage the sample collection process in total safety.



| STANDARDIZED DISPENSING

UltraSAFE standardizes the biospecimen collection process with controlled fixative dispensing. It features an integrated scale that records the specimen's weight at the start. Based on the "specimen-to-formalin weight" ratio selected by the operator, a pre-set amount of fixative is then automatically dispensed into the container.

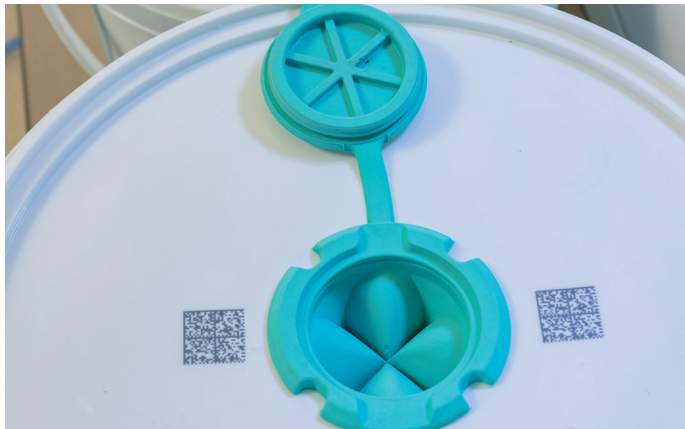
| DETAILED DOCUMENTATION

UltraSAFE's built-in barcode reader allows for bucket recognition and hospital requisition form scanning before each process. The bucket's 2D barcode is associated with the patient's case ID, to guarantee complete sample traceability and case matching. **At the end of the run, a label is printed and easily applied on the bucket, collecting all the relevant process information.** This feature ensures an accurate documentation of the fixation time, which helps to eliminate human errors and discrepancies in the laboratory workflows.

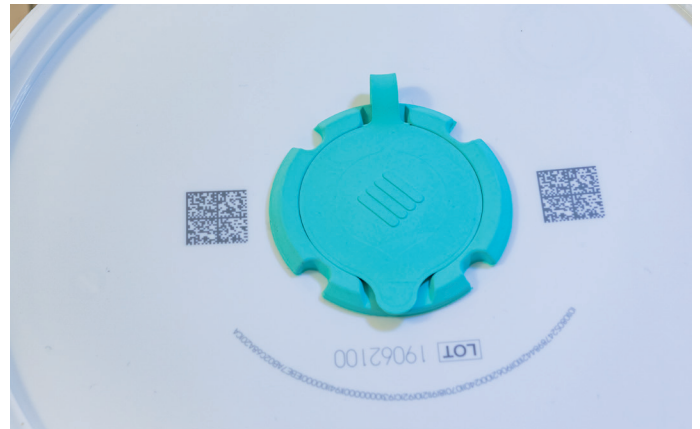


| ADVANCED BUCKET TECHNOLOGY

UltraSAFE's dedicated buckets are designed to seamlessly integrate with laboratory workflows. Available in five standard sizes (500 mL, 1L, 3L, 5L, and 10L), each bucket features a unique built-in one-way valve placed in the lid. **This quadricuspid valve reduces the escape of formalin fumes during operations while dispensing formalin through UltraSAFE's automatic injection nozzle.** For extra safety during transfers, an additional valve cap seals the bucket securely.



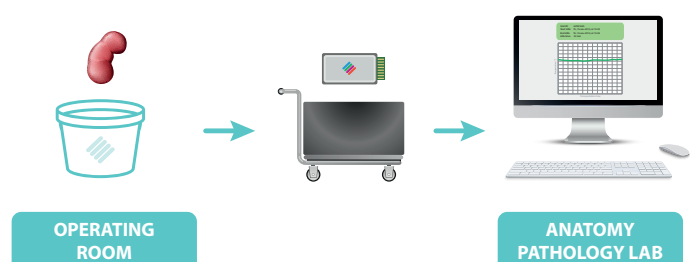
Quadricuspid valve during formalin injection



Closed quadricuspid valve during transfer and storage

| SAFE SPECIMEN TRANSFER

At the end of the dispensing process, a dedicated Data Logger Card can be activated and placed into the transfer box to continuously monitor and document the tissue's temperature and transfer time from the OR to the AP lab. During accessioning, the technician can download all the relevant specimen data from the Data Logger Card to verify that the sample has been properly transported.



| MILEWATCH INTEGRATION

UltraSAFE can be integrated with MileWATCH, the advanced 24/7 Monitoring and Tracking System from OR to AP. **MileWATCH is able to store all collection details** (case ID, bucket ID, specimen weight, fixative weight, "specimen-to-fixative weight" ratio, institute, user, data, time) **and makes them available to AP laboratories.**



| MILESTONE'S SOLUTIONS FOR BIOSPECIMEN COLLECTION



SealSAFE

Fixative Filling and
Vacuum Sealing System



TissueSAFE plus

Vacuum Sealing
System

| MILESTONE'S SOLUTIONS FOR BIOSPECIMEN TRACEABILITY



Data Logger Card

Time and Temperature
Monitoring System



MileWATCH

24/7 Monitoring
and Tracking System

MILESTONE HELPING PATIENTS

Milestone is a company headquartered in Northern Italy and was founded in 1988 as a corporation specializing in advanced microwave instrumentation for analytical and organic chemistry labs. As the technology leader in pre-analytical instrumentation, Milestone supports a worldwide installed

base of over 25.000 systems. In 1994, Milestone established a separate Medical Division to expand our expertise in the crucial pre-analytical phase to the world of histopathology. We pioneered the first microwave rapid tissue processor for same-day diagnosis and the first macro-digital system to enhance the grossing step. Today, our rapid tissue processors, macro-digital imaging systems, and pre-analytical instrumentation are used every day in the most renowned clinical and research laboratories around the world. But we never stop. We continue to lead the industry with constant innovation and improvement. Driven by the leading principle we live by, Helping patients.

Specifications are subject to change without notice

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