



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

**NEW**  
AUTOMATIC  
BIOPSIES  
CAPTURING



**FAST AND EASY DIGITAL DOCUMENTATION  
OF THE GROSSING STEP**



**MacroPATH**  
Macro Digital Imaging System

# ENHANCED PATIENT SAFETY WITH IMPROVED REPORTING

## | MODERN GROSSING DOCUMENTATION

Grossing of biospecimens is a key step in the pre-analytical phase with a big impact on the entire process and on the final diagnosis. Traditionally, the operator provides a subjective description that could be misinterpreted by the pathologist, using terms such as *pea* or *nut* size for the dimensions and *arctic white* or *ivory cream* for the colour. Moreover, this time-consuming step requires notes, drawings and pictures, often done with multiple tools and without a standardized approach. Pathology labs of today are moving toward Digital Pathology and Image Enhanced Reports (IER) to provide relevant information on the grossing step and support the pathologist with the final diagnosis. The MacroPATH Digital Imaging System enhances patient safety as it incorporates all necessary features to expedite and simplify the documentation and traceability of biospecimens.



Image Enhanced Report



**HIGH-RESOLUTION CAMERA**  
for high quality images and videos  
(20 Mpx, 30x optical zoom)



**ADVANCED USER-INTERFACE**  
to expedite documentation,  
storage and editing



**SMART SOFTWARE**  
with advanced features



**FOOT CONTROL & TOUCHSCREEN**  
to simplify the acquisition process



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**DIGITALIZE GROSSING**

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**AUTOMATED BIOPSIES CAPTURING**

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**STREAMLINED WORKFLOW**

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**ENHANCED TRACEABILITY**

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**FLEXIBLE SET-UP**

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# STATE-OF-THE-ART SOLUTION FOR DIGITAL PATHOLOGY

## I DIGITALIZE GROSSING

The MacroPATH is a comprehensive tool for documenting the grossing of surgical specimens and biopsies. It relies on a built-in high-resolution camera for capturing images and videos of the biospecimen and its dissection; a microphone to record voice notes and a suite of editing tools to work on the images and create diagnostic reports. As a fully integrated part of the grossing, the **MacroPATH enables the lab to standardize the acquisition and storage of documentation** into specific case ID folders.



*High resolution camera*



*Touchscreen terminal*

The **intuitive user interface** includes several features for maximum flexibility such as size, section, zoom and notes, just to mention few. All functions allow the operator to capture the required information **with just one click**. Moreover, the advanced software enables the operator to immediately create a report with macro images. The MacroPATH can be integrated into the LIS via multiple ways, such as via HL7, TWAIN, line command, shared folder and the MileWATCH system.



*The operator can measure sizes and area of the specimen*

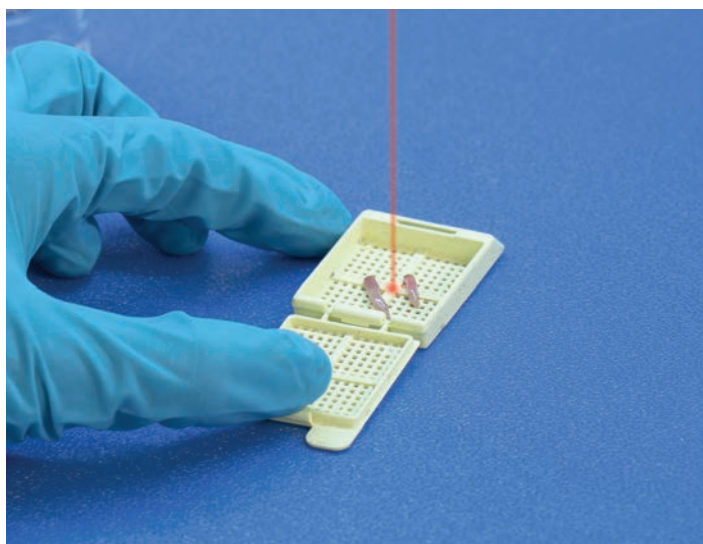


*The operator can add sections, textual notes, free-hand drawings and shapes*

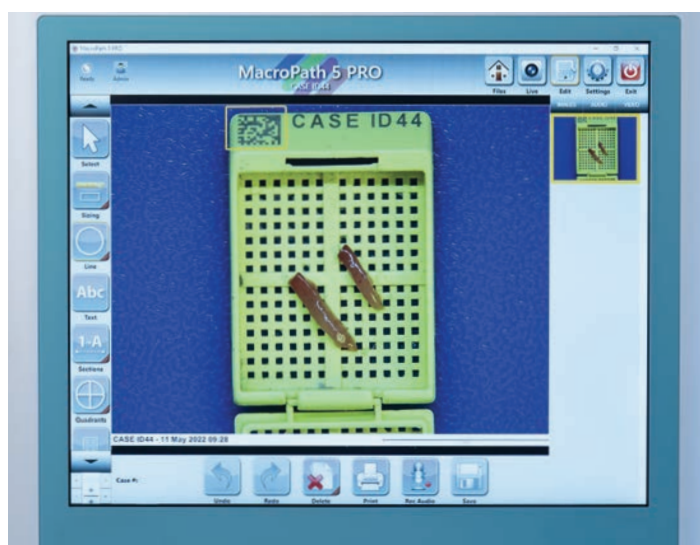
NEW

## I AUTOMATED BIOPSIES CAPTURING

The **revolutionary C-Scan option for MacroPATH**, specifically designed for biopsies, enables the operator to automatically collect all digital documentation in just a second. By placing the cassette under the laser beam, the MacroPATH algorithm instantly recognizes the code, creates the case folder and takes a picture with a preset zoom. This feature prevents human errors and mismatches by providing an **automated process to collect and store digital documentation of biopsies**.



*The operator places the cassette with biopsy under the laser beam*



*The system instantaneously reads the code, creates the case ID folder and saves the image*

## I HANDS-FREE OPERATION

During grossing, the operator usually needs both hands for dissection. The **foot pedal and the innovative LOOX eye-tracking system** enable the hands-free control of the main MacroPATH functions. The unique ergonomics of these accessories simplifies and expedites the documenting procedure.



# A REAL ASSET FOR YOUR DAILY OPERATIONS

## I STREAMLINED WORKFLOW

The MacroPATH combines **ease of use and fast operation** to expedite and standardize the digital description as an integral part of the grossing workflow. Today, to accomplish these tasks, operators often use various and inadequate tools - thereby losing time for their setup. The MacroPATH instead is always ready to use and all functions are **within immediate reach of the operator**. Capturing pictures and videos as well as recording voice notes is now effortless for the operator who can access all functions through the foot pedals and the waterproof touch screen. In addition, the images can be used to **improve the diagnostic report** or as a perfect complement for Telepathology.

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### TIME SAVING

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### EFFORTLESS OPERATION

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### EASY TO INTEGRATE

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01.



The sequence begins by entering the case ID through the barcode reader which automatically creates its dedicated folder.

02.



By using the built-in foot pedal, the operator can easily zoom in and out, take images and record videos.

03.



The operator can edit images to measure sizes and areas, add notes or create sections and quadrants.



## I ENHANCED TRACEABILITY

Thanks to the MacroPATH software, the pathologist can **check images and videos of the grossing during embedding or cutting**, to intercept potential mismatches and thus significantly reducing potential risks. Moreover, the **perfect integration with the MileWATCH system** (optional) enables the tracking of the specimen's data from its collection up until embedding for a full case history and to provide evidence when needed.



## I IDEAL TEACHING TOOL

MacroPATH can also be used as a teaching tool. The pathologist can create specific videos and images to be used during classes **to educate students on the correct grossing procedure**. Furthermore, this approach allows access to a **large database of real cases** whilst maintaining highest levels of safety, avoiding the exposure of the students to unnecessary risks.



# DEDICATED CONFIGURATIONS TO FIT ANY SET-UP

## I FLEXIBLE SET-UP

The MacroPATH is available as a stand-alone system to be placed near the grossing area or integrated as a complement into any grossing station. Its flexibility perfectly matches the modularity of the Milestone grossing station, the UltraGROSS, so that the MacroPATH can be installed with its touchscreen terminal in the frontal or lateral position, **according to the specific operator's needs**.



*MacroPATH installed as a stand-alone system*



*MacroPATH installed on an existing grossing station*

## | MILESTONE COMPLEMENTS FOR MACROPATH



### **C-Scan**

Automatic Cassette  
Detecting System



### **MileWATCH**

24/7 Monitoring  
and Tracking



### **LOOX**

Eye-tracking  
system

## | MILESTONE SOLUTIONS FOR GROSSING



### **UltraGROSS**

The New Benchmark  
in Grossing



### **eGROSS**

Ergonomic, Mobile  
Grossing Workcenter



### **WorkSTATION**

Grossing Workcenter  
for Small Biopsy

# 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.

## MILESTONE



HELPING  
PATIENTS

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SCAN ME  
TO DISCOVER MORE