MacroPATH D

Macro digital imaging system for the grossing room
The MacroPATH D system
A new, innovative, highly visual productivity and quality control tool for the grossing room. MacroPATH D is a user-oriented capture, annotation, and storage system for digital macro images and videos to support macroscopic descriptions and to dramatically reduce specimen turn-around time at the grossing station. The system serves as a comprehensive method of storing the macroscopic images, with spoken comments, providing an invaluable diagnostic database for routine grossing, teaching and research.

The MacroPATH D benefits

In the Grossing Room:
• A major visual complement to standard descriptions.
• Availability of images eliminates vagueness in description of shape, size and color of specimens.
• Eliminates hand drawings or long descriptions.
• Enables detailed observation and documentation through 10x optical magnification.
• Rapid and accurate sizing/area of specimens.
• Easy and precise labeling of tissue block sample locations.
• Full documentation of specimen “as received”.

In the Microscopy Room:
• Macro images are available to all pathologists at time of sign-off.
• Create more informative pathology reports by adding context with macro images.
• Digital files can be retrieved by LIS systems.

For the Laboratory Manager
• Full documentation of grossing specimens procedures for Quality Assurance.
• Clear, precise, real-life images of for medical/legal purposes.
• Highly efficient supervision in a teaching/training environment.
MacroPATH D
Macro digital imaging system for the grossing room

NO MORE...

- Hand drawings
- Long descriptions

...Just MacroPATH D.
A rapid sequence of digital images and spoken comments.

Enhanced diagnostic reporting.
The ability of MacroPATH D to easily capture, annotate, and store high quality images enables the building of enhanced patient reports with additional context for the clinician, surgeon and oncologist.

Correlation of labeled cassettes and sampled tissues.
Eliminates potential mismatching of cassettes labeled/number of blocks, sampled tissues. Valuable documentation in educational/training environment.
Digitizing the requisition form.
Capture a digital image of the requisition form to exclude potential mismatch errors when manually entering the patient/specimen data. Ideal documentation for Quality Assurance.

Create a library of images.
Capture real size, close up images of excised specimens in rapid sequence. Saved images appear as thumbnails on the right side of the screen.

Automatic block key indication.
Pick the image of interest. Select “Scalpel” icon. Draw on specimen to indicate sampled areas. The tool will label sequentially.

Audio recording.
MP3 audio file saved and associated to the images.

Start a new file.
Enter specimen/patient data by keyboard or scan bar code.
Program automatically opens.
Interfacing the MacroPATH D

In addition to stand-alone operations, MacroPATH D can interface with a PACS or LIS through dedicated or TWAIN protocols.

**Stand-alone system**

Saved locally

Saved in a network location

**Interfacing with PACS (Picture Archiving and Communications System)**

Software running in the background monitors a network location for image additions.

**Interfacing with LIS (Laboratory Information System)**

MacroPATH D acts as a secondary application to the LIS. Patient case identifier is held by LIS.

1. LIS launches MacroPATH D.
2. User completes image acquisition and annotation.
3. Assets are transferred to the LIS.
4. Additional operations by the user (image manipulation, selection of images for inclusion into patient reports, etc).

**Use as TWAIN device**

MacroPATH D acts as a secondary application launched via TWAIN protocol. Multiple images are taken and manipulated and then transferred to the primary application (LIS or other program with TWAIN import capability).
MacroPATH D can be connected via internet to share all relevant information of the grossing procedures with remotely located pathologists through the new MileVIEWER software package.

Highest security standard
The MacroPATH D remote connection features completely secure data channels with key exchange and AES (256 Bit) session encoding, the same security standard used by https/SSL.

The simplicity of MacroPATH D

Digital Camera
The 9 megapixel industrial digital camera with autofocus, auto light adjustment, and 10x optical magnification, captures outstanding quality images, in JPG format. Camera magnification range allows for capture of large to minute details.

Waterproof Keyboard
USB keyboard with IP68 dust/water protection.

Foot Control Module
Heavy duty foot control system to zoom in/out, voice recording and save features.

Waterproof Control Terminal
The Point Of Care (POC) unit features 17” color touch-screen TFT-LCD in a splash and dust-proof enclosure. 80GB hard drive with 4 USB ports.