

Instructions For Use

Histolog[®] Scanner

Software Application
versions 3.4.x



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The Histolog[®] Scanner and the Histolog[®] Dish are patent protected products.

See www.samantree.com/ip for more information on intellectual property.

Revision history

Version	Date	Change description
1.0	2024-09-12	Initial version of the document for the USA. It contains Instructions for Use (IFU) for the Histolog® Scanner Software Application version 3.3.1.
1.1	2025-01-27	The version was updated to correspond to the Histolog® Scanner Software Application version 3.4.1. The update introduced Remote Collaboration, ‘admin’ management of users (including the new functionality of users’ Access Rights), of Remote Users, of Proxy Server, of Network Exports and of Gallery content. The possibility to access Histolog® Scanner Software Application in a non-authenticated mode was removed. The update also introduced new metadata for Prostate Application Profile and for Skin Application Profile. Network-connected shared drives were added to possible export destinations. SamanTree Medical’s storage was added as a possible destination for log files export. Requirements for a remote user’s computer were added. Test of connection to Proxy Server from Histolog® Scanner service dialog window was introduced. Date and time display format was updated.
1.2	2025-11-04	The version was updated to include the local network connectivity scenario for the Remote Collaboration. Software Licenses were removed.
1.3	2026-03-13	The version was updated to remove the Orientation Mark from the Histolog® Scanner interfaces, according to the Software Application version 3.4.3. In section 6.4, subsection numbers starting from 6.4.9 were updated accordingly.

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2. Explanation of symbols

NOTE	A NOTE sign in this manual draws attention to useful information regarding a function or procedure.
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3. Introduction

This manual describes the Graphical User Interface of SamanTree Medical's Histolog[®] Scanner Software Application to allow users to operate the device.

This manual applies to the Histolog[®] Scanner Software Application version 3.4.3 and above (referenced as 3.4.x), until further notice.

The Histolog[®] Scanner Software Application is designed and produced as a component of the Histolog[®] Scanner *in-vitro diagnostic* medical device. The intended users of the Software Application are trained healthcare professionals.

Refer to the Histolog[®] Scanner instructions for use for instructions on the set-up, use and maintenance of SamanTree Medical's Histolog[®] Scanner device hardware.

3.1 Warnings

WARNING

- The Histolog[®] Scanner and its accessory devices are intended to be used in vitro for the examination of specimens. They are not intended for use on patients.
- The Histolog[®] Scanner and the Histolog[®] Dish are non sterile devices. For use in an intraoperative setting, the Histolog[®] Scanner and its accessory products shall be located outside the sterile surgical area.
- When handling potentially infectious tissue specimens, avoid skin contact by wearing gloves or other protective equipment.
- This device is not compatible with magnetic resonance (MR) or explosive environments.
- Handles are not provided for lifting the device, but exclusively have a function for pushing/pulling.
- The Histolog[®] Scanner imaging window is fragile. Avoid impact with foreign objects. Do not load with mass above 1 kg.
- Do not operate the Histolog[®] Scanner in case of damage to the imaging window.
- The protective earthing connection of the Histolog[®] Scanner is performed through the power cord connection. If this cable is damaged, the device must not be connected to the mains power.
- Only use a power cord having adequate ratings for the Histolog[®] Scanner.
- Comply with the product safety instructions described in the Histolog[®] Dip instructions for use.
- Cleaning when the device is connected to the mains power may be hazardous to the operator and/or destructive to the device.

3.2. Cautions

CAUTION

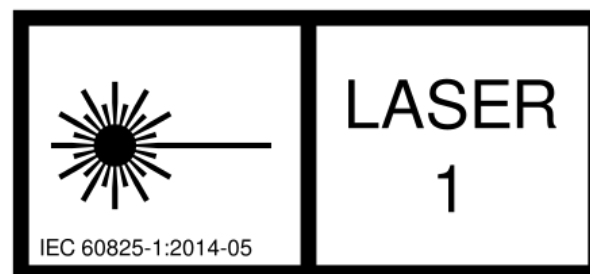
- Only use compatible accessories and parts supplied by SamanTree Medical or by an authorized distributor.
- Do not re-use a Histolog[®] Dish. A new Histolog[®] Dish shall be used for every new surgical procedure.
- Do not use a Histolog[®] Dish, if it is damaged or if its optical interface is visibly dirty.
- If the information about the tissue specimen orientation is critical, the tissue specimen should be marked for orientation before starting the imaging procedure with the Histolog[®] Scanner.
- Do not apply tissue marking dyes on the tissue specimen before imaging it with the Histolog[®] Scanner. Tissue marking dyes prevent proper imaging with the Histolog[®] Scanner.
- Do not use disinfecting products that contain glycolic acid. These disinfecting products may damage the Histolog[®] Scanner.
- The Histolog[®] Scanner is intended for use in the electromagnetic environment specified in the Histolog Scanner Instructions for use [§16.2](#) and [§16.3](#).
- The Histolog[®] Scanner is designed for use in a professional healthcare facility environment. It is likely to perform incorrectly if used in a home healthcare environment.

- Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.”
- Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Histolog Scanner, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
- If it is suspected that performance is affected by electromagnetic interference, correct operation may be restored by increasing the distance between the equipment and the source of the interference.
- Do not use this device in proximity to sources of strong electromagnetic radiation (e.g. unshielded intentional radio frequency (RF) sources), as these can interfere with proper operation.
- Do not use this device in proximity of active HF surgical equipment, as these can interfere with proper operation.

3.3. Laser safety

The Histolog[®] Scanner is a Class 1 laser product, as per IEC 60825-1:2014-05.

Laser radiation in the visible wavelength range is emitted from the imaging window [F] during imaging.



The Histolog[®] Scanner embeds a Class IIIB laser component with the following characteristics:

Wavelength:	488±4 nm
Max output power:	200 mW (CW)
Beam divergence:	< 0.7 mrad

4. Intended purpose

4.1. Indications for use

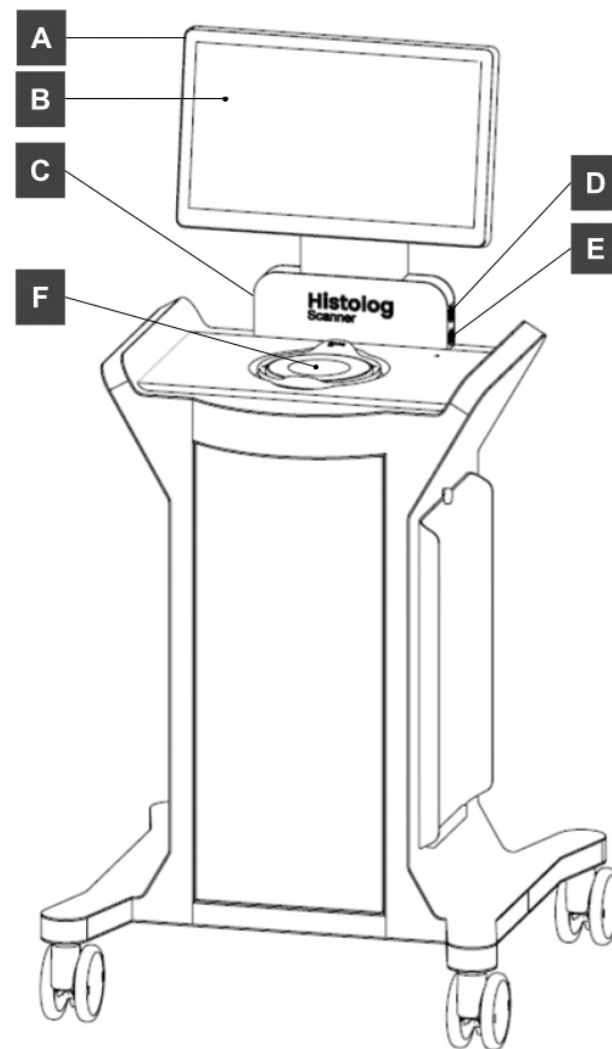
The Histolog[®] Scanner is a confocal laser system intended to allow imaging of the internal microstructure of tissues including, but not limited to, the identification of cells, vessels and their organization or architecture.

4.2. Intended users

The Histolog[®] Scanner and its accessory devices are intended to be operated by trained healthcare professionals.

5. Device Overview

5.1. Overview



The Histolog[®] Scanner device consists of the following components that are related to the Histolog[®] Scanner Software Application:

- [A] Touchscreen monitor
- [B] Histolog[®] Scanner Software Application presented to users
- [C] ON/OFF power switch
- [D] USB port
- [E] Ethernet port
- [F] Imaging window

6. Use of the Histolog[®] Scanner

6.1. Before Use

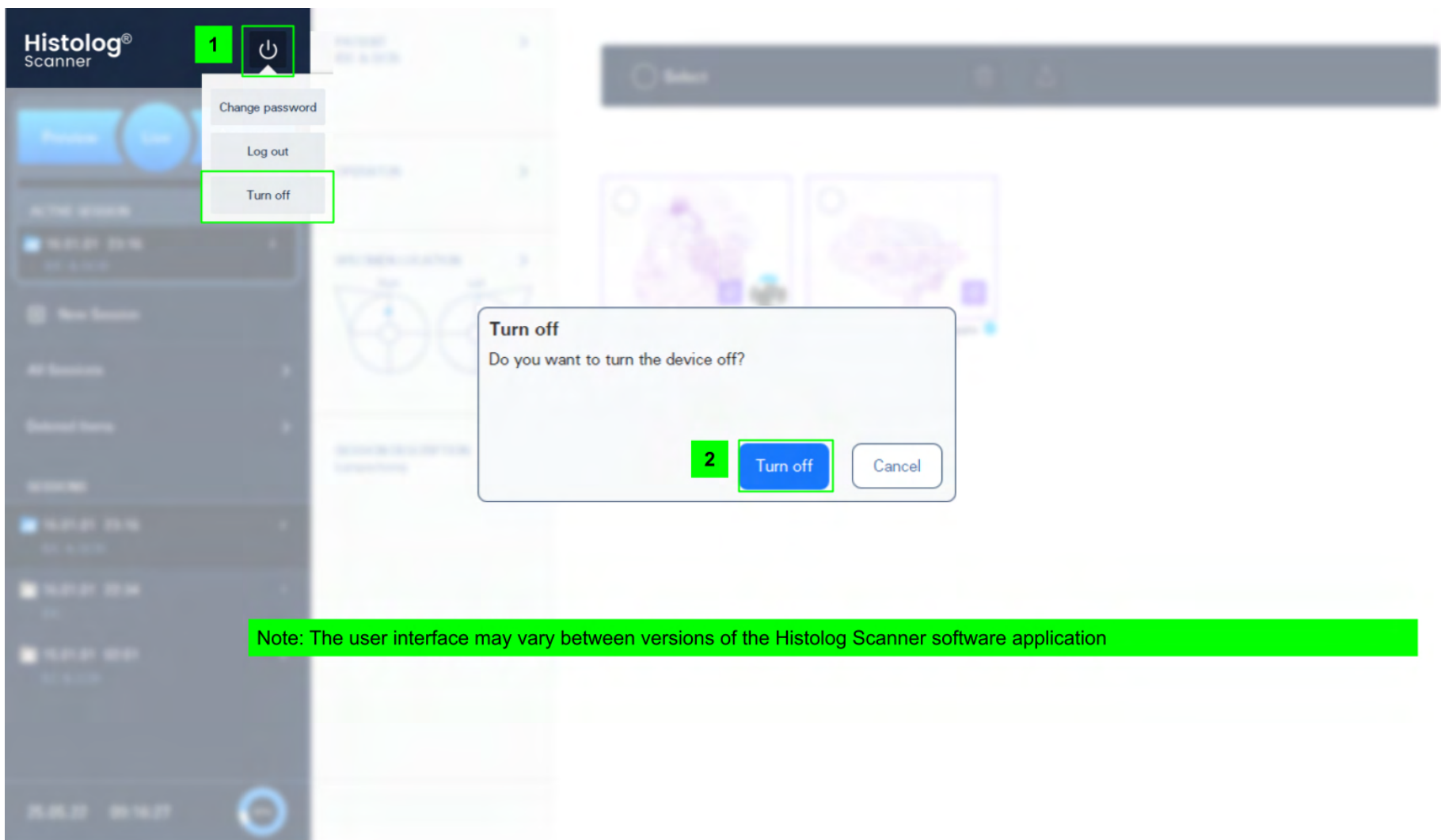
6.1.1. Switching ON

1. Switch ON the power switch [C] and wait for the Histolog[®] Scanner Software Application to initialize.

NOTE When switched ON, the power switch [C] is pressed and lighted in white.

6.2. After Use

6.2.1. Switching OFF



Quit the Histolog[®] Scanner Software Application:

1. Tap the  button. Then select the “Turn off” option in the graphical popup control.
2. Confirm the action by tapping “Turn off” to shut down the device.

Or tap on “Cancel” if you do not want to shut down the Histolog[®] Scanner.

Power OFF the Histolog[®] Scanner device:

3. Wait 15 seconds or until the ‘No Signal’ message is displayed on the monitor, and then switch OFF the power switch [C].

6.3. Histolog[®] Scanner Software Application

6.3.1. Management of users: User Authentication mode

The technical administrator uses a special 'admin' account to manage accounts of all the other users. The following operations are possible for the technical administrator:

- Log in to the Histolog[®] Scanner Software Application as 'admin' user.
- Manage user accounts: create new user accounts, edit or delete them, change their passwords, toggle their access rights to access own and other users sessions.
- Manage sessions and images: view, delete with a possibility to restore and delete permanently images that are present on the device.
- Delete an existing user account.
- Change own password.
- Log out from the Histolog[®] Scanner Software Application.

Log in as 'admin' user. Using the password initially provided by SamanTree Medical, log in to the Histolog[®] Scanner as 'admin' user. Change the initial password using the "Change password" option in the graphical popup control available under the  button.

Create a new user account. Tap on the  button to create a new user account.

Edit an existing user account. Select a user account in the existing user accounts list. Tap on the  button to edit the user account. Change the First and Last Names, the Password and the Access Rights toggle value.

NOTE The User Name cannot be edited as it can be associated with already exported and/or deleted sessions.

Manage sessions and images. The functionality is the same as for regular users of the device. Refer to section [6.3.5](#) for the instructions of its execution.

Delete an existing user account. Select a user account to remove in the existing user accounts list. Tap on the  button to remove the user account.

NOTE An existing user account can be deleted only if no images are associated with it. To delete a user account with associated images, first permanently delete the associated images, then delete the account.

Change password. To change the 'admin' account password use "Change password" option in the graphical popup control available under the  button.

Log out. To log out from the Histolog[®] Scanner device use the "Log out" option in the graphical popup control available under the  button.

6.3.2. User access: User Authentication mode

Users can access the device using the password that was initially provided to them by their technical administrator.

Authenticated Users have access either to their own images only or to all the contents on the Histolog[®] Scanner, depending on the configuration of the account. They can perform new image acquisitions only in Sessions that are assigned to their own User Names.

After working on the Histolog Scanner device, an authenticated User can either switch off the device (described in section [6.2.1](#)) or log out in order to allow another User to log in.

Log in as a regular User. Using the password initially provided by your technical administrator, log in to the Histolog[®] Scanner with your User Name.

Change password. Change the initial password after logging in by using the “Change password” option in the graphical popup control available under the  button.

Change language. Change the language of the Histolog[®] Scanner Software Application either before or after the log in. The feature is accessible via the graphical popup control available under the  button.

Log out. To log out from the Histolog[®] Scanner device use the “Log out” option in the graphical popup control available under the  button.

6.3.3. User operations: Application Profiles, Gallery, Live Mode, Image Examiner

Through the Histolog[®] Scanner Software Application, User operates the Histolog[®] Scanner device and works with digital images generated using the device. The work with digital images is organized in Sessions, where a Session encompasses a set of images. This set of images is intended to relate to a single patient or specimen. Each Session belongs to a particular Application Profile that indicates the type of tissue of the imaged specimen.

The Histolog[®] Scanner Software Application supports a total of 29 different Applications Profiles, which are:

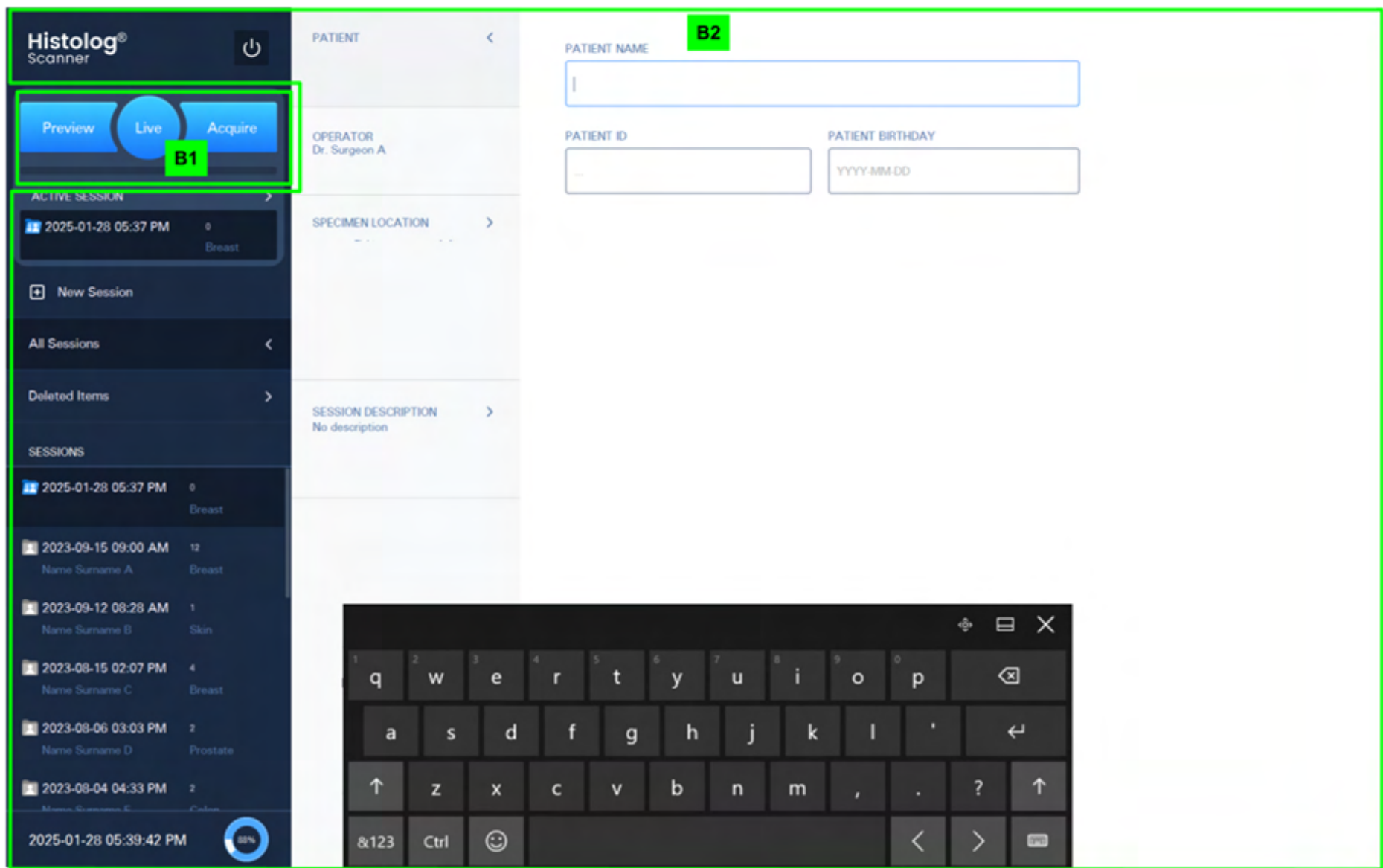
Bladder, Brain, Breast, Cervix, Colon, Esophagus, Intestine, Jaw, Kidney, Liver, Lung, Lymph Node, Ovary, Pancreas, Penis, Prostate, Skin, Stomach, Tongue, Tonsil, Trachea, Throat, Thyroid, Ureter, Urethra, Uterus, Vagina and a more generic Application Profile called Other.

To start a new Session a User has to select an Application Profile for that Session using the corresponding Graphical User Interface (see section [6.4.2](#)).

The Histolog[®] Scanner Software Application is presented in three main screens:

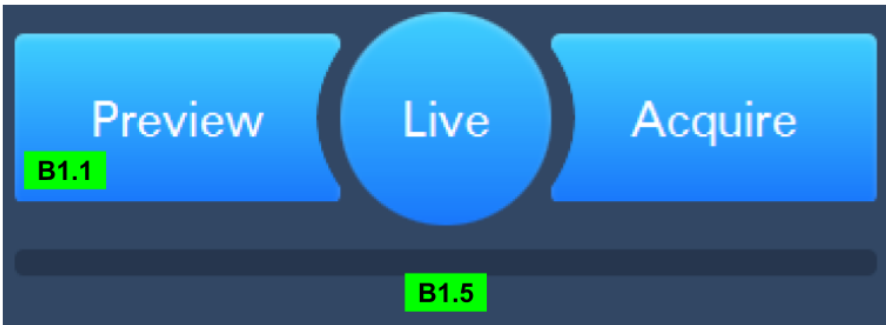
- Gallery screen (described in section [6.3.5](#)) for managing Sessions: enter session’s contextual information, scroll the session list, switch between the different sections available (All Sessions, Deleted Items, one session’s images), change Active Session.
- Image Examiner screen (described in section [6.3.6](#)) for visualizing and annotating images.
- Live Mode screen (described in section [6.3.7](#)) for visualizing specimen positioning and stabilization in real time.

The Acquisition Control Panel **[B1]** (described in section [6.3.4](#)) is displayed in all screen modes mentioned above.

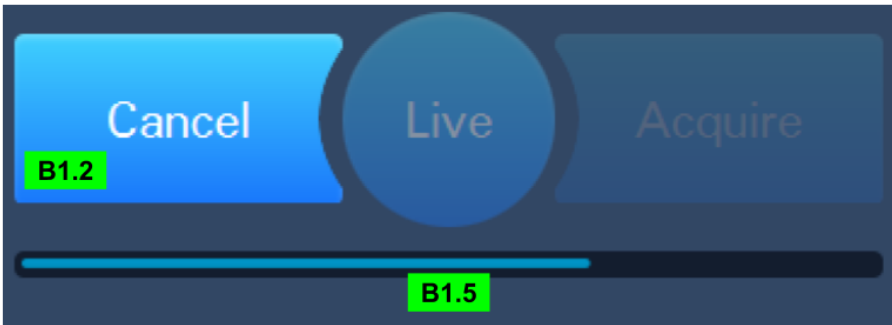


6.3.4. Acquisition Control Panel

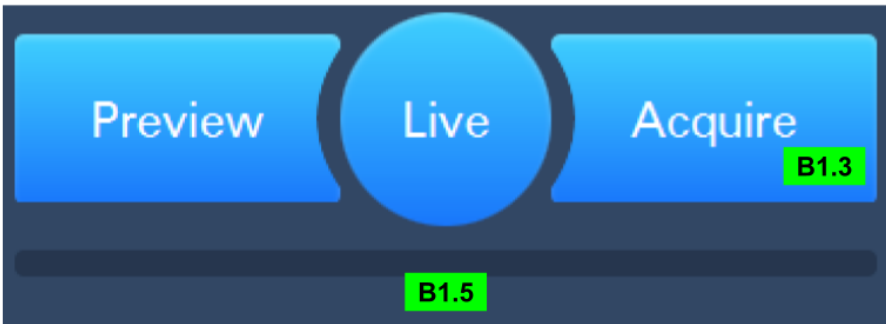
The Acquisition Control Panel **[B1]** is available to users with all the three screen modes. The panel provides tools for capturing images and for launching/finishing the Live Mode signal acquisition.



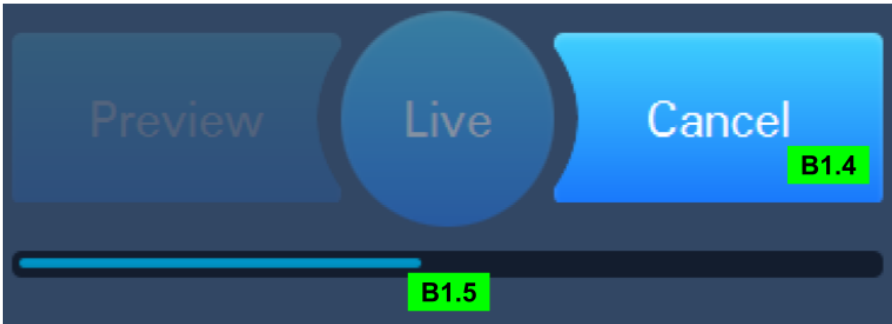
B1.1. Preview button launches a fast Preview imaging of a specimen.



B1.2. Cancel button interrupts an ongoing Preview imaging process.

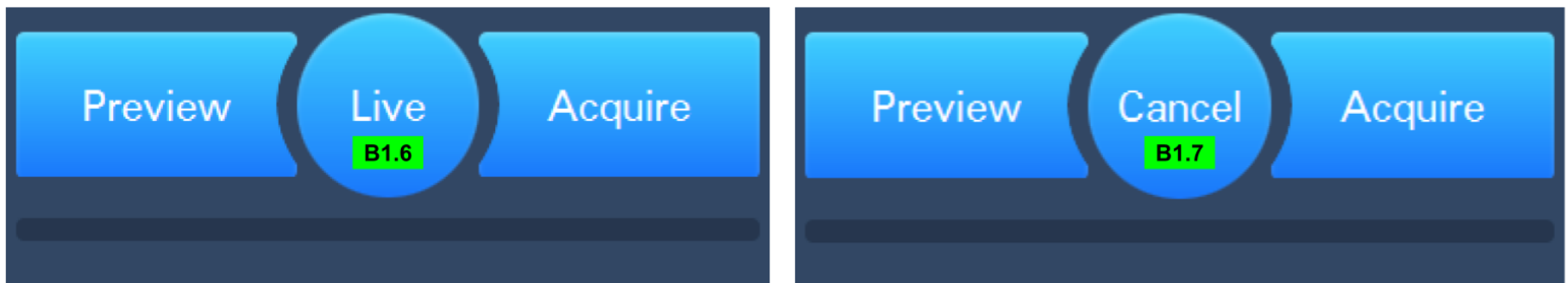


B1.3. Acquire button launches a high resolution Acquire imaging of a specimen.



B1.4. Cancel button interrupts an ongoing Acquire imaging process.

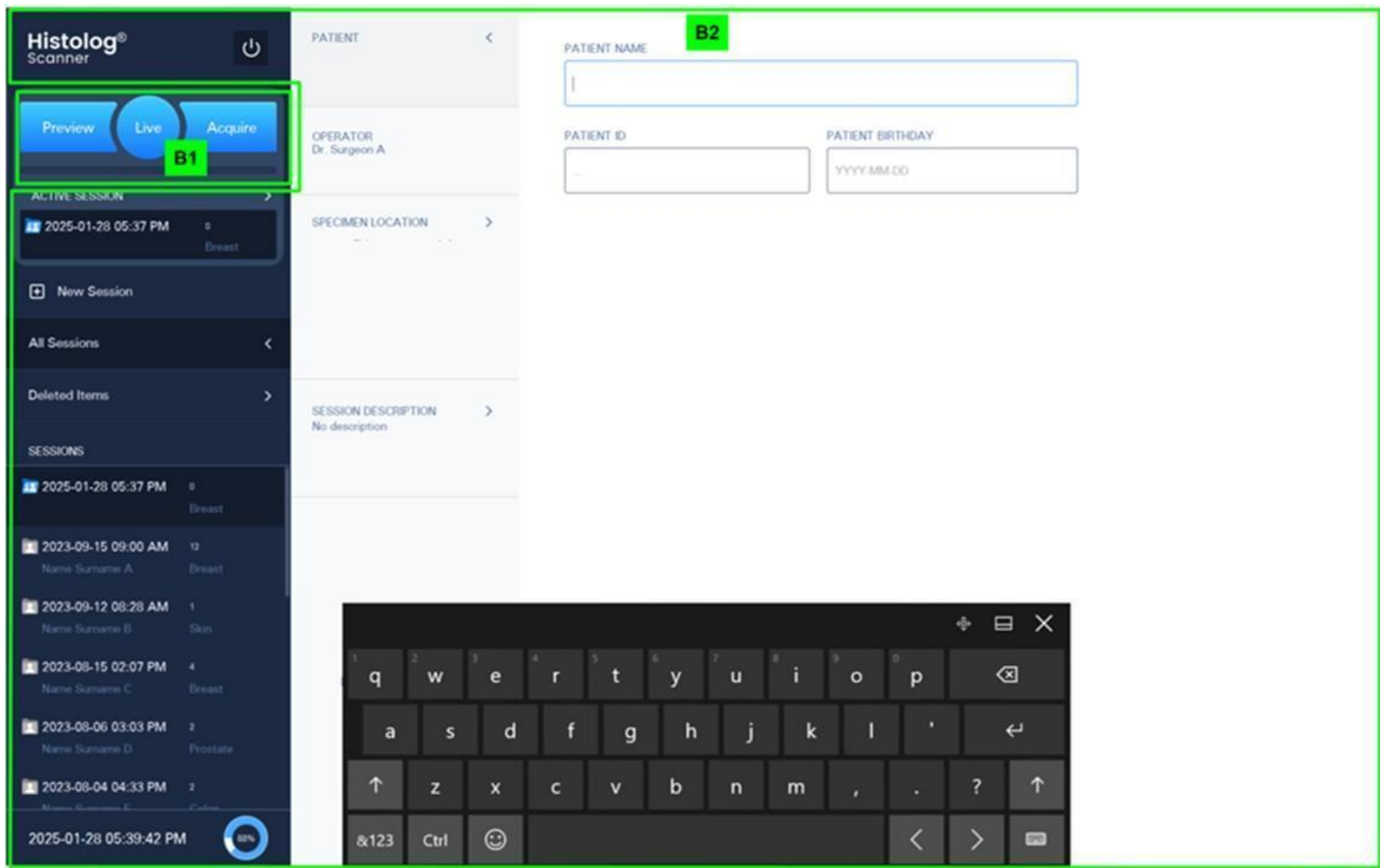
B1.5. Progress indicator displays the image visualization progress during a Preview or Acquire imaging process.



B1.6. Live button launches acquisition of a real-time signal allowing for an evaluation of the specimen positioning and stabilization.

B1.7. Cancel button interrupts an ongoing Live Mode visualization of the specimen.

6.3.5. Gallery screen: Sessions management and contextual data controls.



The Gallery screen [B2] includes tools for management of Sessions (left panel) and tools for controlling the contextual data around Sessions and images (central part).

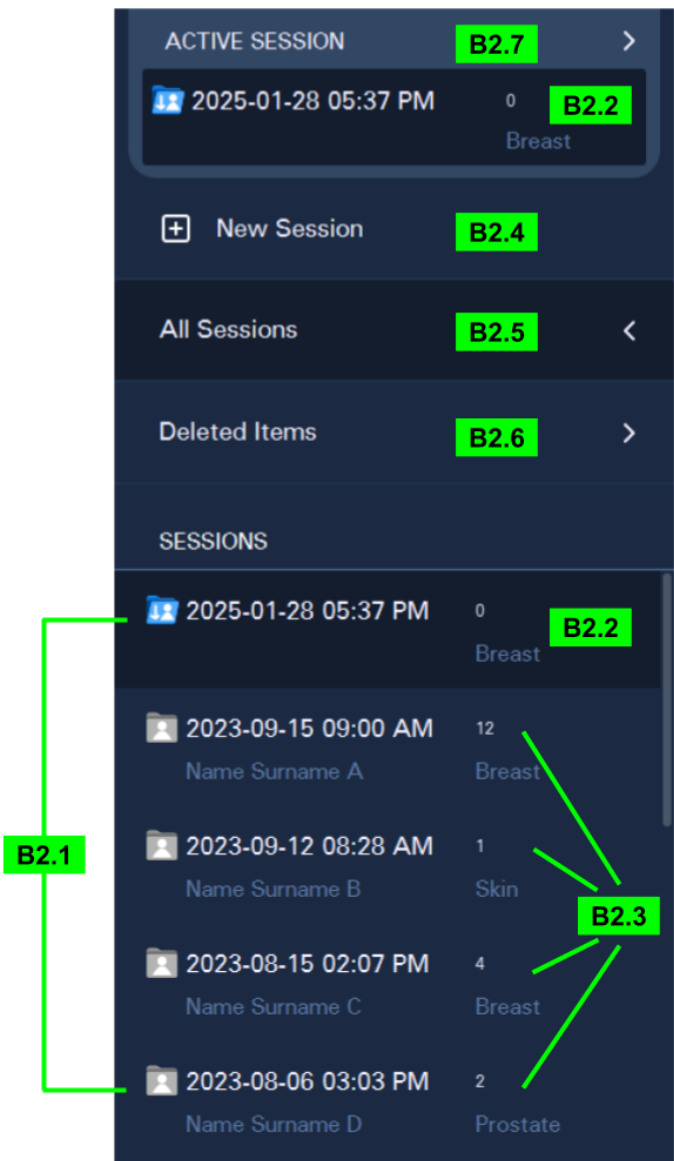
6.3.5.1. Exploring images and sessions in the Gallery (left panel)

Gallery screen provides tools for handling sessions and images. A new session is automatically created when the Histolog[®] Scanner starts.

B2.1. SESSIONS section in the left panel of the Gallery screen presents the list of all sessions sorted top-down in reverse chronological order, so that the latest sessions appear on top of the list. Tap a session to display its contextual data and images content in the Gallery pane.

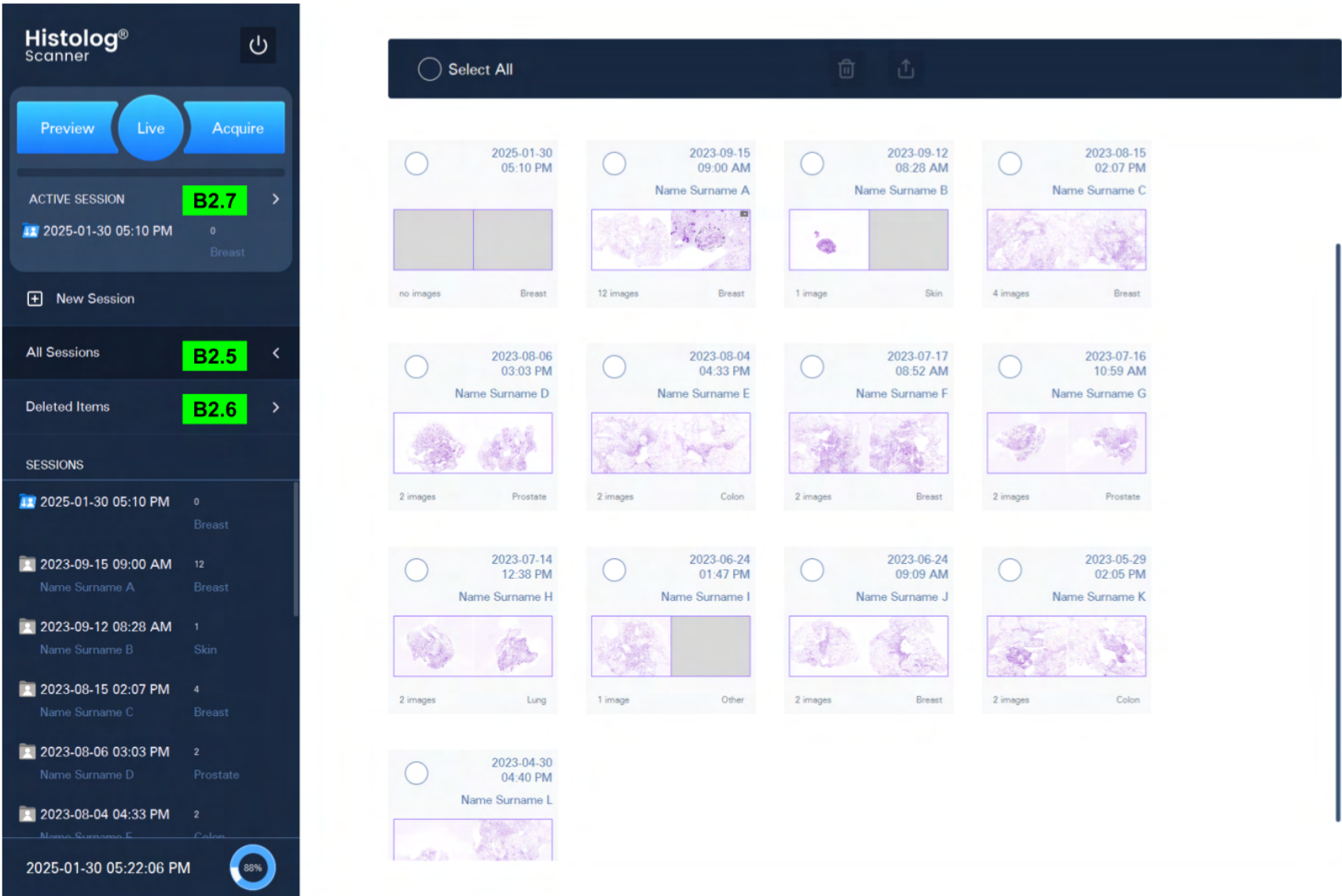
Sessions in the list are described with the date and time they have been created, with the number of images they contain (displayed on the right side of the list), with their Application Profile and, optionally, with the patient name, if documented.

B2.2. Active Session. The Active Session is marked with a light blue icon with an arrow . The arrow indicates the Active session where the newly acquired images will be stored. The Active Session is also shown beneath the “Active Session” button (B2.7). The other sessions are marked with gray icons .



B2.3. Sessions. Scroll through the list of Sessions to locate any of the sessions that were created on the device (and were not deleted).

B2.4. New Session. The button creates a new session on the device that automatically becomes the Active Session (so all newly produced Preview and Acquire images will be written to this new session).

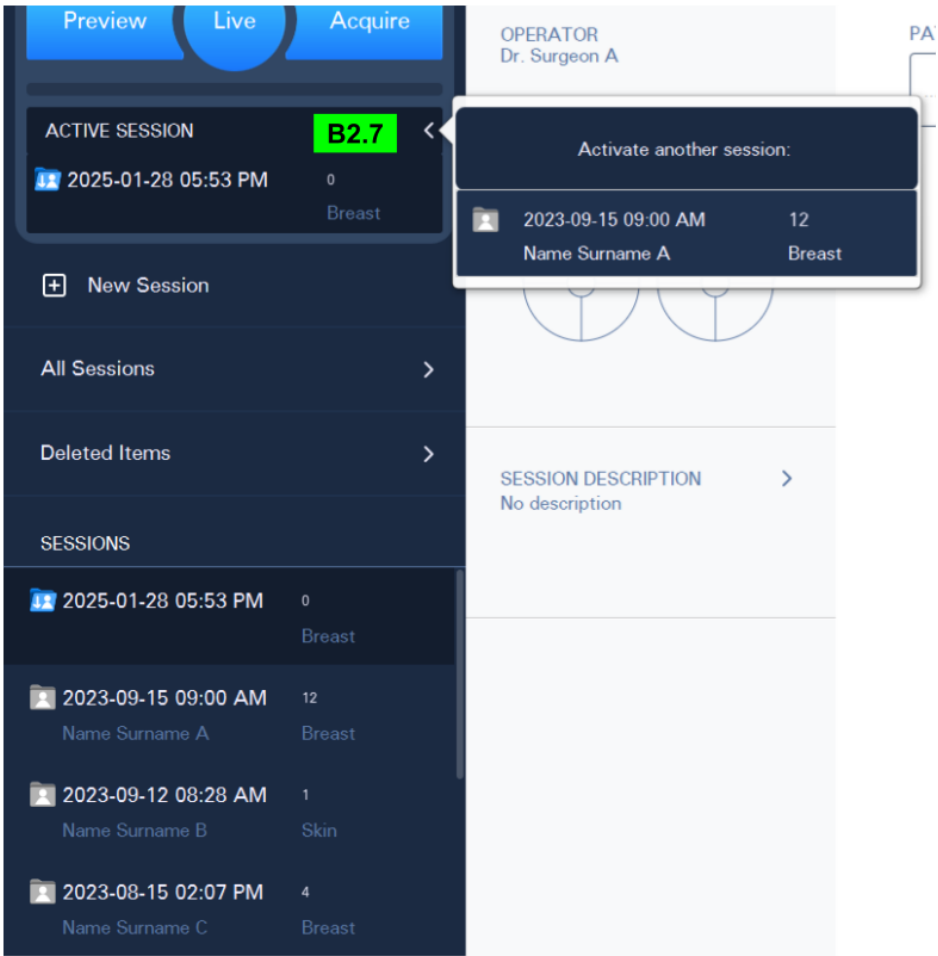


B2.5. All Sessions. This button displays in the Gallery panel a graphical representation of the Sessions found on the device (shown in the central part). This representation allows for exploring images of the sessions, for exporting session contents or reports, as well as for deleting sessions (see below).

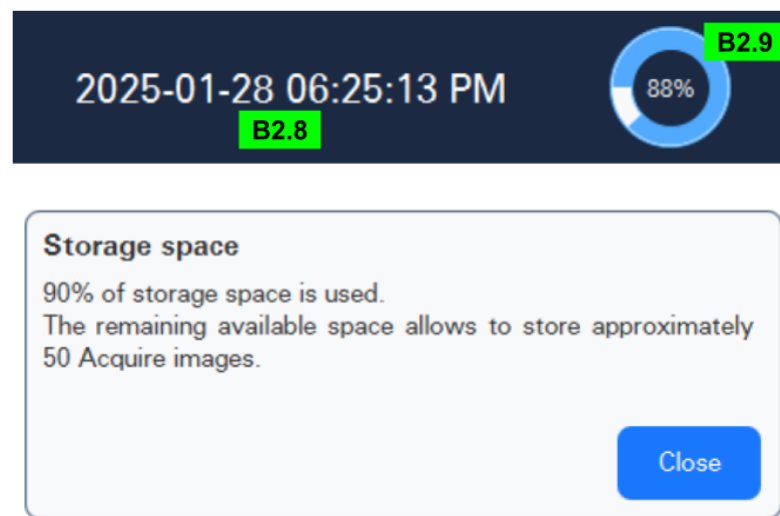
B2.6. Deleted Items. This button displays previously deleted Gallery content. Images and sessions from Deleted Items collection can be reviewed, restored to their original Gallery locations, or permanently deleted from the device.

B2.7. Change of Active Session. “ACTIVE SESSION” button allows users to change the currently active session to activate another session present in the Gallery in which newly acquired images will be stored.

NOTE The user account settings contain a toggle to allow for viewing only the user’s sessions or for viewing all sessions created on the Histolog® Scanner device. This toggle can be switched only by the administrator (see section 8.1.1). Even if a user account is authorized to view all sessions on the device, only sessions assigned to the user may be activated for acquiring new images.



6.3.5.2. Service functionalities



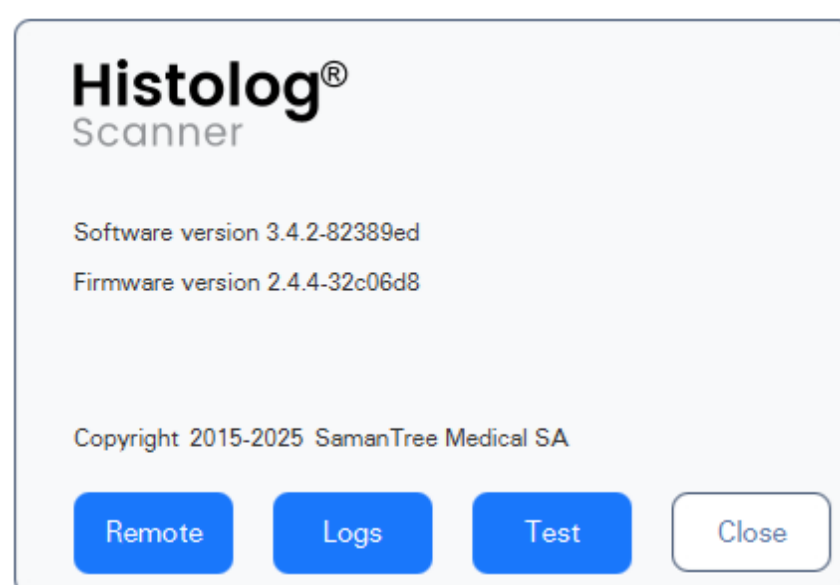
B2.8. Date and Clock. Current date and time are shown at the bottom left corner of the screen.

B2.9. Storage space indicator. Current status of the available storage capacity with a possibility to see an approximate number of "Acquire" images that can be stored.

NOTE The Histolog[®] Scanner Software Application provides to users Date and Clock **[B2.8]** as well as Storage space indicator **[B2.9]** in all the three screen modes: in the Gallery screen, in the Live Mode screen, in the Image Examiner screen.



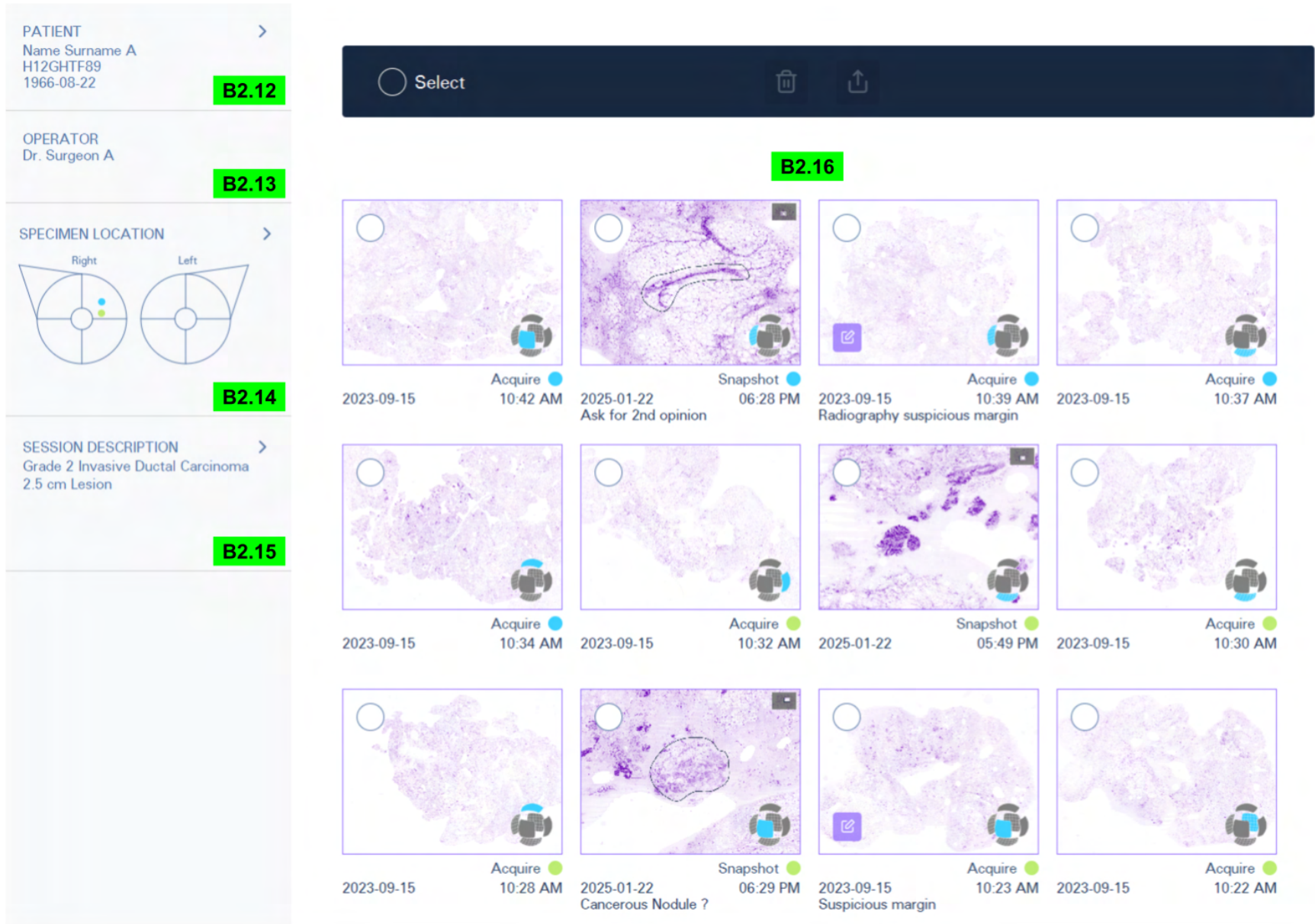
B2.10. Histolog[®] Scanner logo. Tapping on the Histolog[®] Scanner logo activates Histolog[®] Scanner service dialog window. This dialog window allows users to export technical information from the Histolog[®] Scanner (Logs button) to a local storage device (a USB storage medium or a network-connected shared drive) or to the dedicated SamanTree Medical server (if the device is connected to the Internet), to run a system test including a test of connection to the Remote Collaboration Proxy Server (Test button) and to control Remote Collaboration functionality (Remote button - see further details in section [7](#)).



B2.11. Turn Off button. Use this button to shutdown the Histolog[®] Scanner Software Application. See section [6.2.1](#) for details.

6.3.5.3. Sessions contextual data

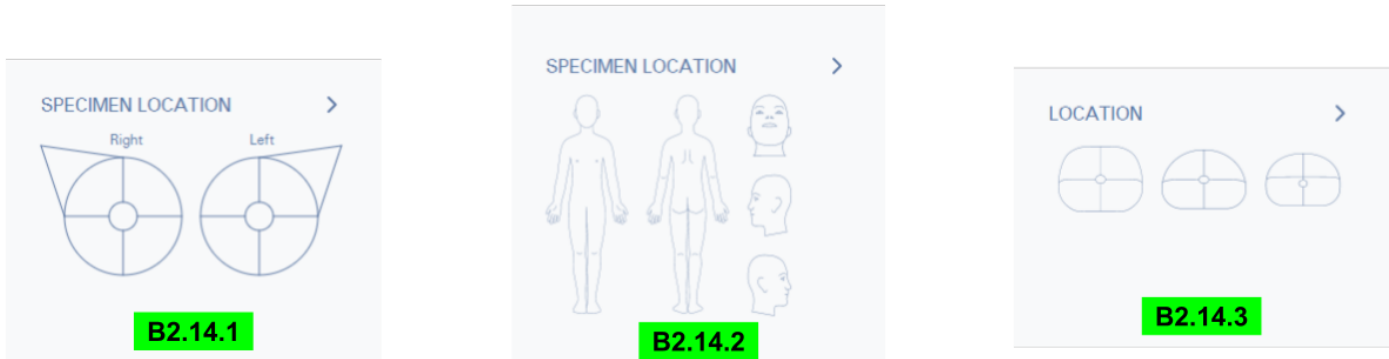
The central part of the Gallery screen allows users to browse through the images within one session, and manage their related contextual data.



A session contextual data includes:

B2.12. Patient data consists of the following 3 fields: Patient Name, Patient ID, Patient Birthday. Patient data fields are empty when a session starts and can be edited, if needed. To edit Patient data, simply tap the field to complete and a virtual keyboard will appear.

B2.13. Operator data consists in a single field, Operator Name, to document the name of the person operating the device. This value is automatically filled with the authenticated user’s Operator Name and cannot be edited.



B2.14.1, B2.14.2 Specimen Location is available in sessions of Breast and of Skin Application Profiles. It serves to graphically document the specimen location in the patient. Specimen Location data are empty on a session start, and can be edited, if needed, in order to add, change positions, or remove locations for specimens that are subjects of imaging in this session.

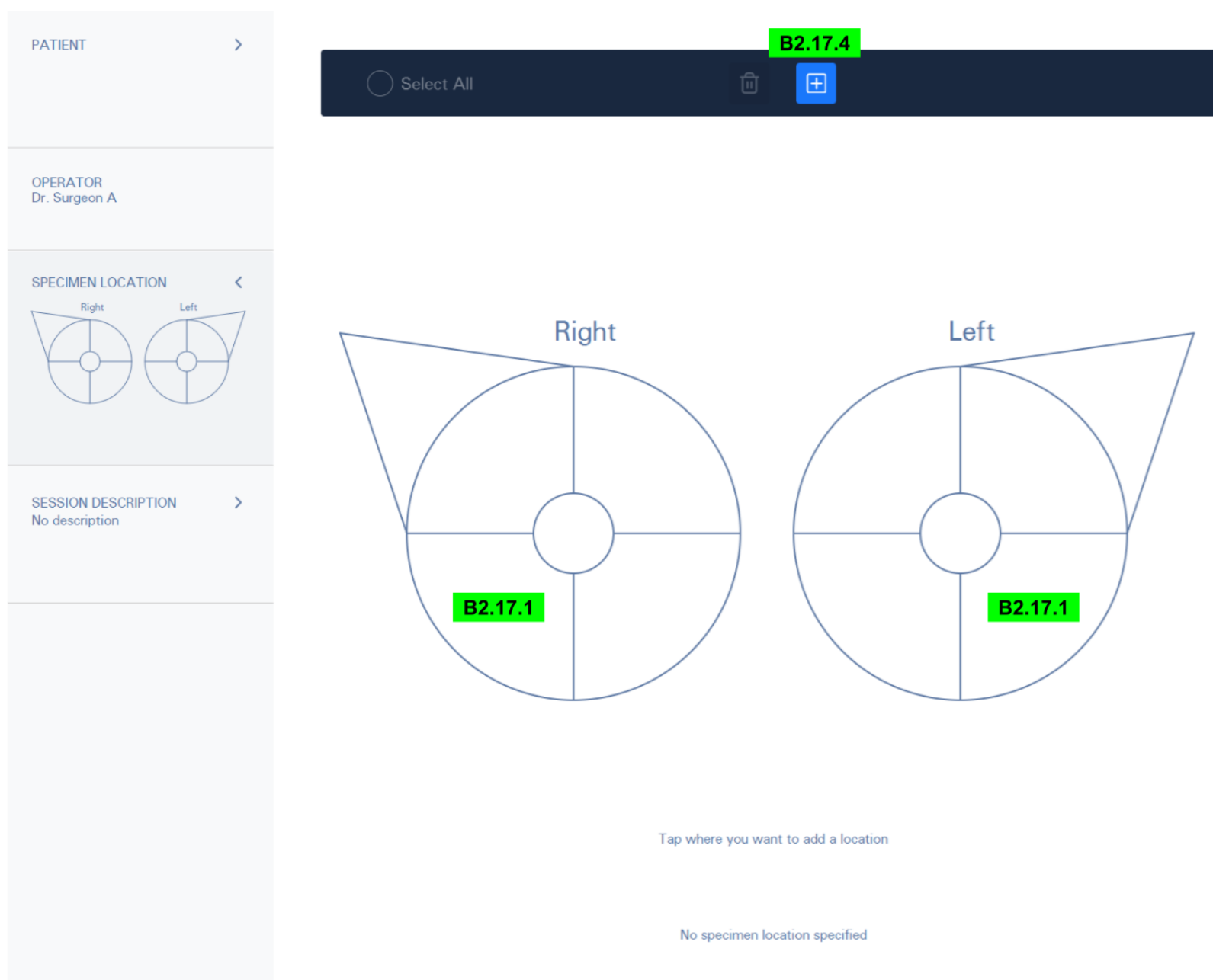
Tapping the button B2.14.1 or B2.14.2 activates the Specimen Location map graphical control that features the locations map and several control buttons to work with locations on the map.

NOTE The Specimen Location map will appear automatically during the acquisition of an image in sessions of Breast and of Skin Application Profiles if no Specimen Location was entered before.

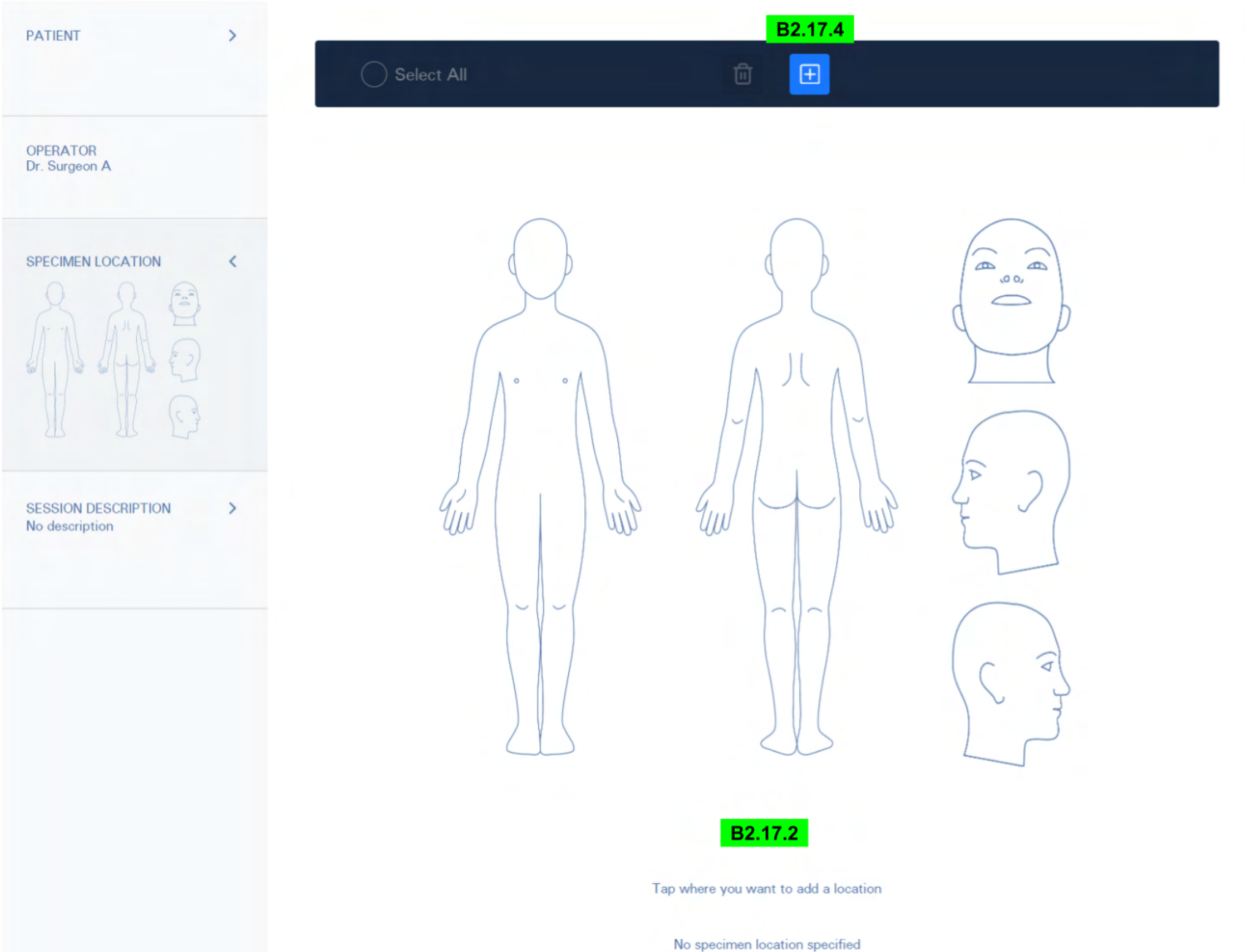
B2.14.3 Location is available in sessions of Prostate Application Profile. It serves to graphically document the location of interest in the resected prostate specimen. Location data are empty on a session start, and can be edited, if needed, in order to add, change positions, or remove location(s) for the prostate specimen that is a subject of imaging in this session.

Tapping the button B2.14.3 activates the Location map graphical control that features the locations map and several control buttons to work with locations on the map.

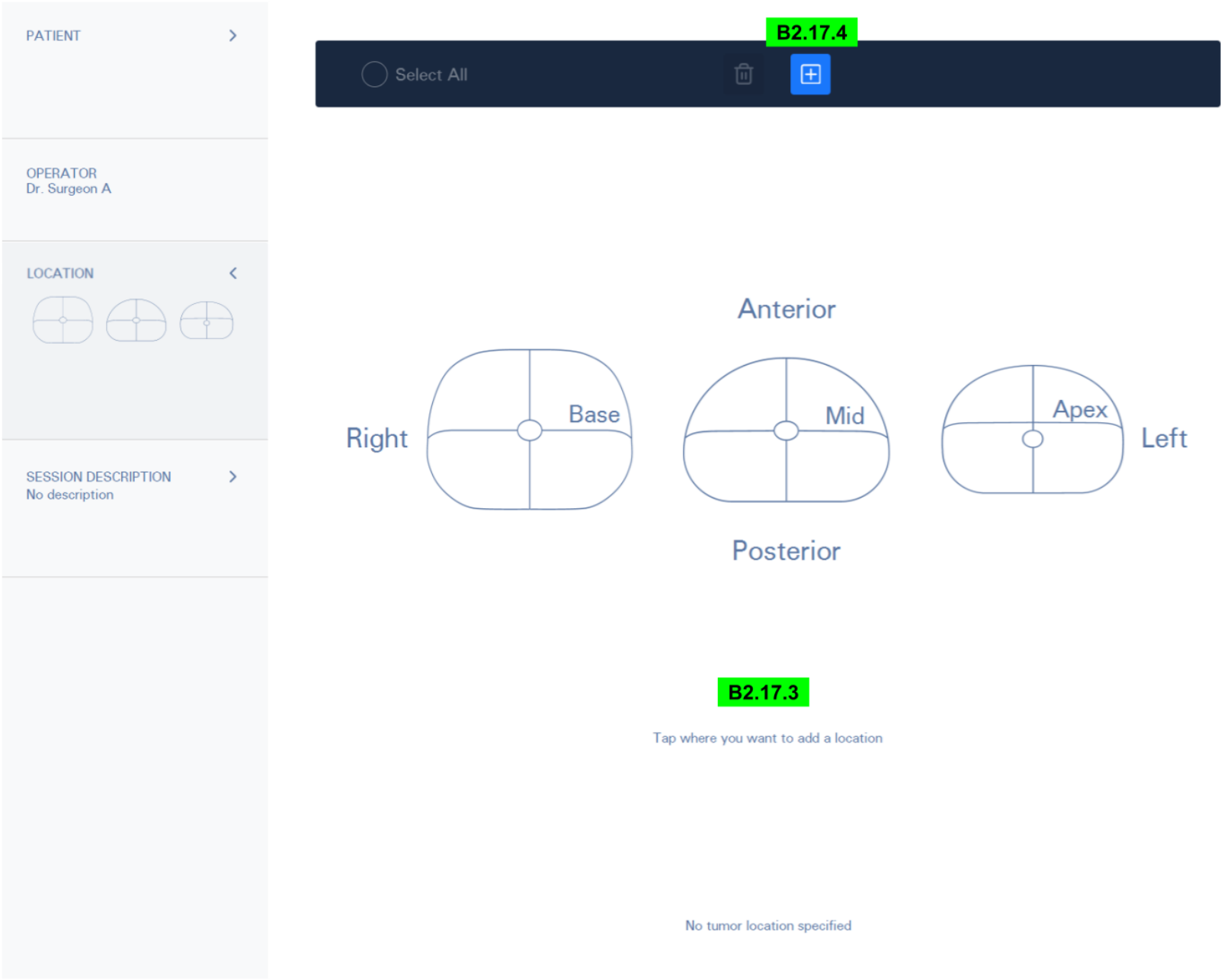
B2.15. Session Description serves to specify a textual description of the Session. Session Description is empty when a session starts, and can be edited, if and when needed. To edit using a virtual keyboard, simply tap the button.



B2.17.1. Specimen Location map for Breast Application Profile is a schematic representation of the patient's Right and Left breasts, in which specimen locations can be added, moved, or deleted.



B2.17.2. Specimen Location map for Skin Application Profile is a schematic representation of the Front and Back patient’s body sides and of Front, Left and Right sides of the patient’s head, in which specimen locations can be added, moved, or deleted.



B2.17.3. Location map for Prostate Application Profile is a schematic representation of the patient's prostate Base, Mid and Apex parts, in which locations of interest can be added, moved, or deleted.

B2.17.4. Add Location button. If the button is active (colored in blue), tap on the location of the map (B2.17.1, B2.17.2, B2.17.3) to indicate the specimen location in the patient or the location of interest in the patient's prostate. The position of the location can be changed later. Use long touch to drag and move a location with a finger. Up to 5 locations can be localized on the map. In sessions of Breast and of Skin Application Profiles future acquired images will be attributed per default to the last specimen location entered. In sessions of Prostate Application Profile there is no default location assigned to images.

PATIENT

OPERATOR

Dr. Carter (George Carter)

SPECIMEN LOCATION

Right

Left

SESSION DESCRIPTION

No description

B2.17.5

B2.17.6

Select All

Right

Left

B2.17.5

Tap locations to select them. Use long touch to drag and move a location.

1

2

3

B2.17.5. Location selection. An existing location must be selected before deleting it. Selection tools consist of a “Select All” button and check marks on location tags. Tapping on an individual location tag will place a check mark on it and thus select it for a possible deletion. Tapping on “Select All” button will select all location tags for a potential deletion.

B2.17.6. Delete Location button. Locations that are selected on the map (check marks are displayed on their color tags) can be deleted using the “Delete Location” button.

NOTE Tapping on buttons B2.12-B2.15 activates corresponding data entry controls. A second tap on the buttons deactivates the data entry controls. For the text data controls a virtual keyboard is automatically activated/deactivated on the screen.



6.3.5.4. Gallery content: Single Session view

The Gallery screen can display either a summary view of images of a single session (B2.16) or a summary view of all sessions (B2.18).

B2.16. Single Session view. This Gallery view is activated when a user taps on a particular session. This view features:

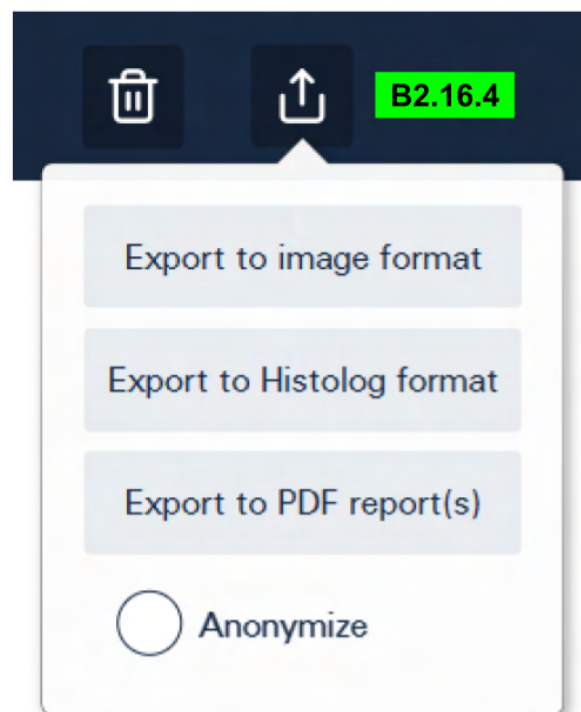
B2.16.1. Image thumbnail and information allow to rapidly identify an image of interest. From left to right, the following information is displayed below an image thumbnail:

- image creation date and time (not editable),
- image type (Preview, Acquire or Snapshot, not editable),
- imaged specimen location (for Breast and for Skin Application Profiles) or location of interest (for Prostate Application Profile) color tags (editable),
- optional image description on the bottom line (editable).

Tapping on the thumbnail will open the corresponding image in Image Examiner screen [B3], described in section [6.3.6](#).

B2.16.2. Selection tools. Selection tools are essentially selection checkboxes available on every thumbnail image icon and Select checkbox (top left) allowing to select/unselect all the images of one type, or all the images of the session at once. The selection tools allow for selection of a set of session images for their further export or for their deletion.

B2.16.3. Delete button. The button becomes active as soon as some of the session images are selected using selection tools (B2.16.2). Tapping on the Delete button will delete the selected images, moving them to Deleted Items collection (B2.6).



B2.16.4. Export button. The button becomes active as soon as some of the session images are selected using selection tools (B2.16.2). Touching the button will display the choice available for the kinds of export, namely:

- Export to image format;
- Export to Histolog format;
- Export to PDF report(s).

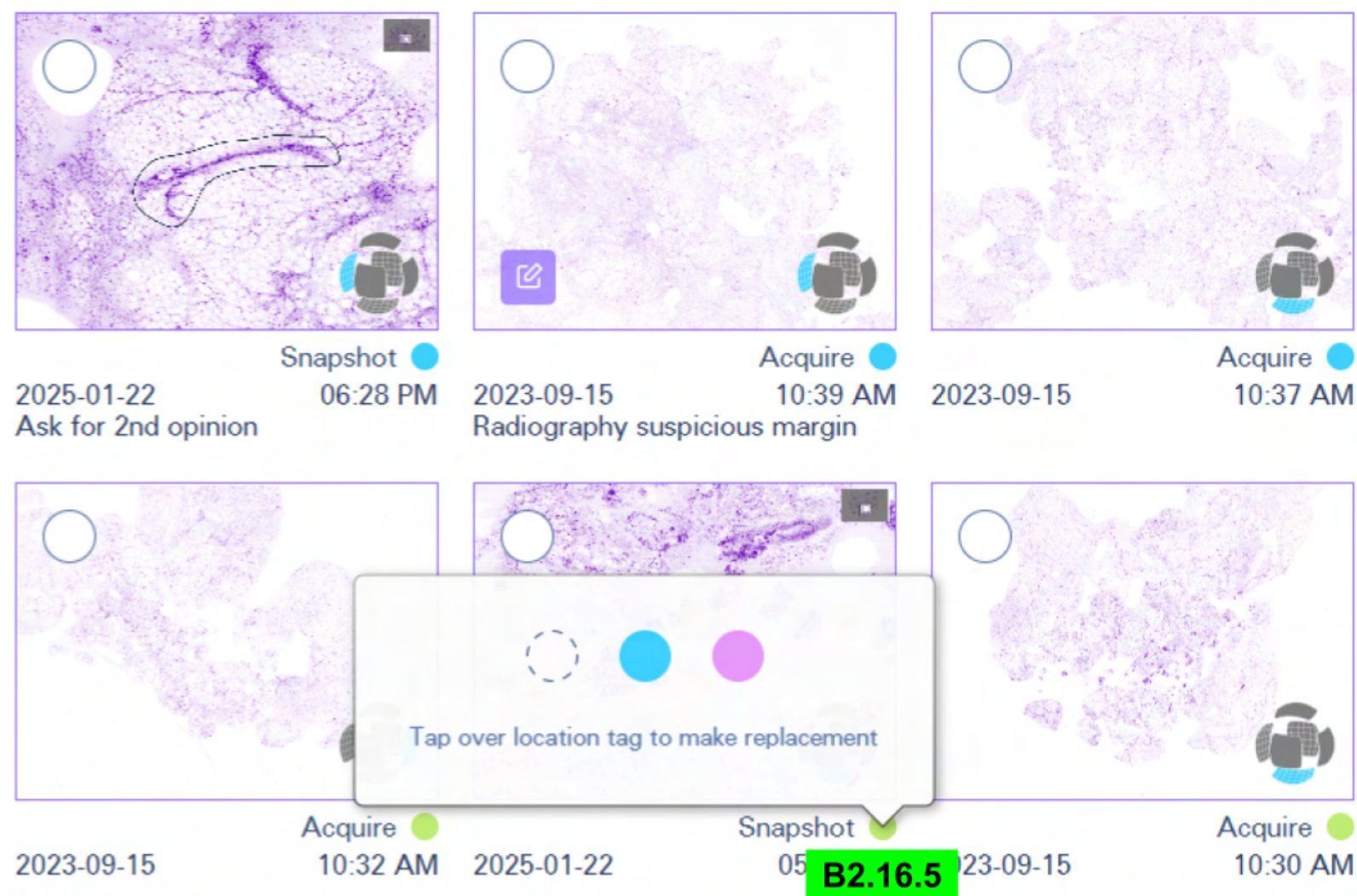
Export to images format: This mode of export allows for exporting to a USB storage or to a network-connected shared drive the selected images as files that can be viewed using a standard third-party viewer. The session contextual data, images data, contrast adjustment for the images and annotations of the images are not available in this mode of export.

Export to Histolog format: This mode of export allows for exporting to a USB storage or to a network-connected shared drive the selected images together with their metadata (including the session contextual data, images data and annotations of the images) for further visualization with Histolog[®] Viewer software application.

Export to PDF report(s): This mode of export allows for exporting to a USB storage or to a network-connected shared drive a PDF report containing all the selected images and the related data .

Anonymize option is available when the metadata of the selected images needs to be removed from the export: patient name is replaced with a random code, all the other patient data, operator data and session description are removed.

Users can touch their preferred export choice, this starts the corresponding export procedure.

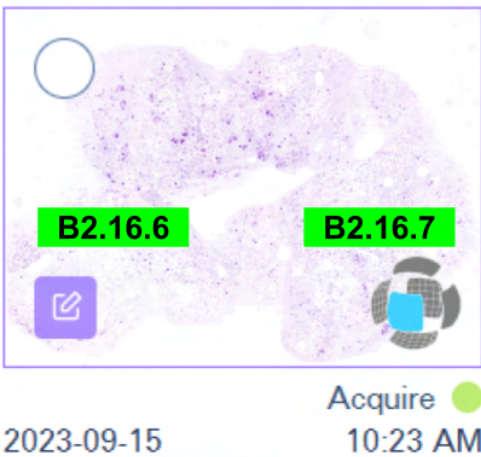


B2.16.5. Specimen location or location of interest color tags. These are the tags that represent specimen locations or locations of interest defined through the session's Specimen Location or Location map (B2.17) interface. Touching the tag area will display a graphical control allowing for a change of the image's location color tag. For an image marked with a tag the control will display all the other defined location color tags, as well as the special White tag that represents an unknown location (not defined on the map).

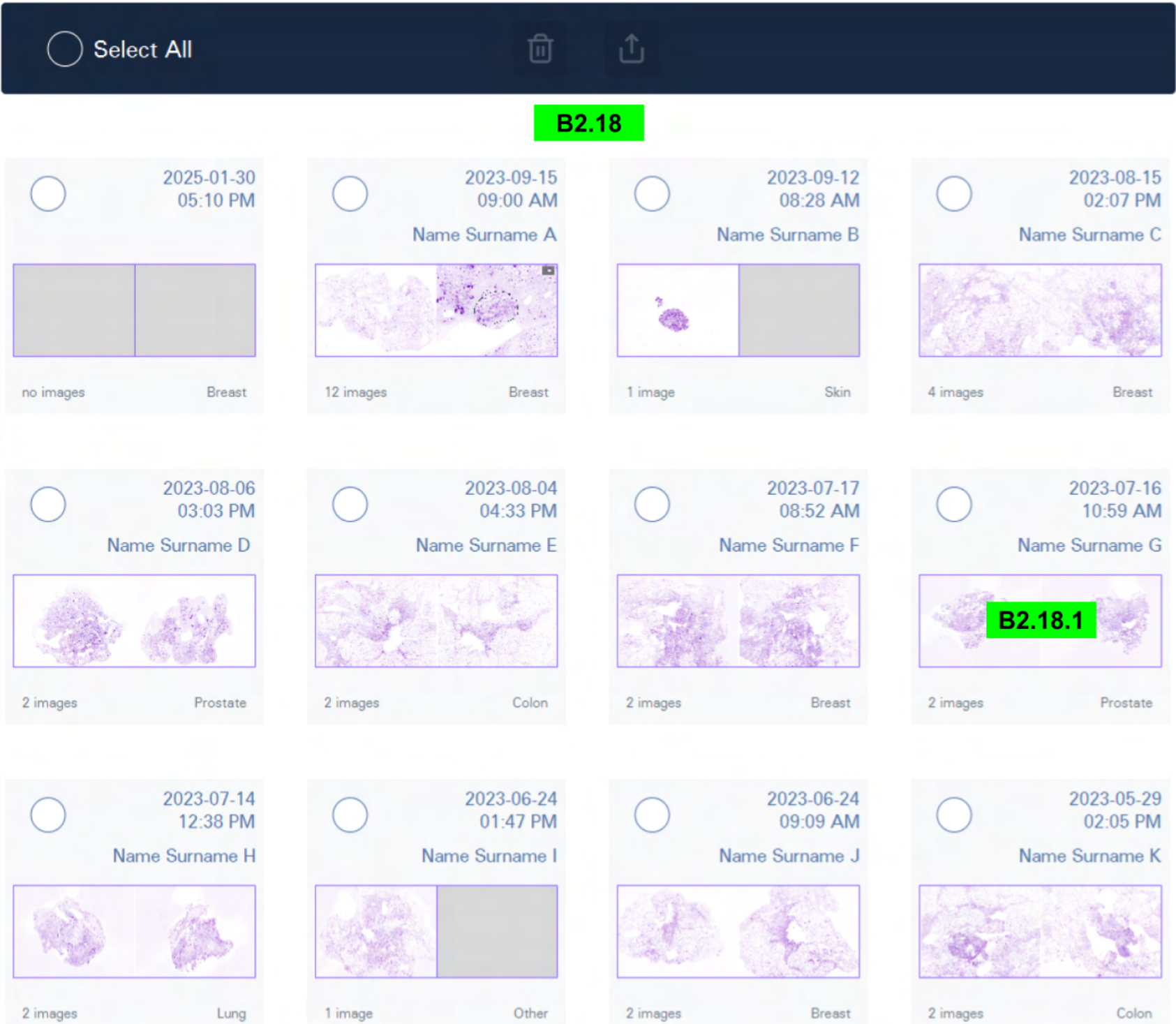
Selecting an alternative tag will replace the image's specimen location or location of interest. The change will also be propagated to all the Snapshots derived from the initial image.

B2.16.6. Annotation icon. An annotation icon is shown in the lower left corner of the image thumbnail if the image contains one or several annotations introduced by users.

B2.16.7. Specimen Surface icon. The Specimen Surface icon is shown in the lower right corner of the image thumbnail if a Specimen Surface has been defined (using the tool presented on Image Examiner screen as B3.4).



6.3.5.5. Gallery content: All Sessions view



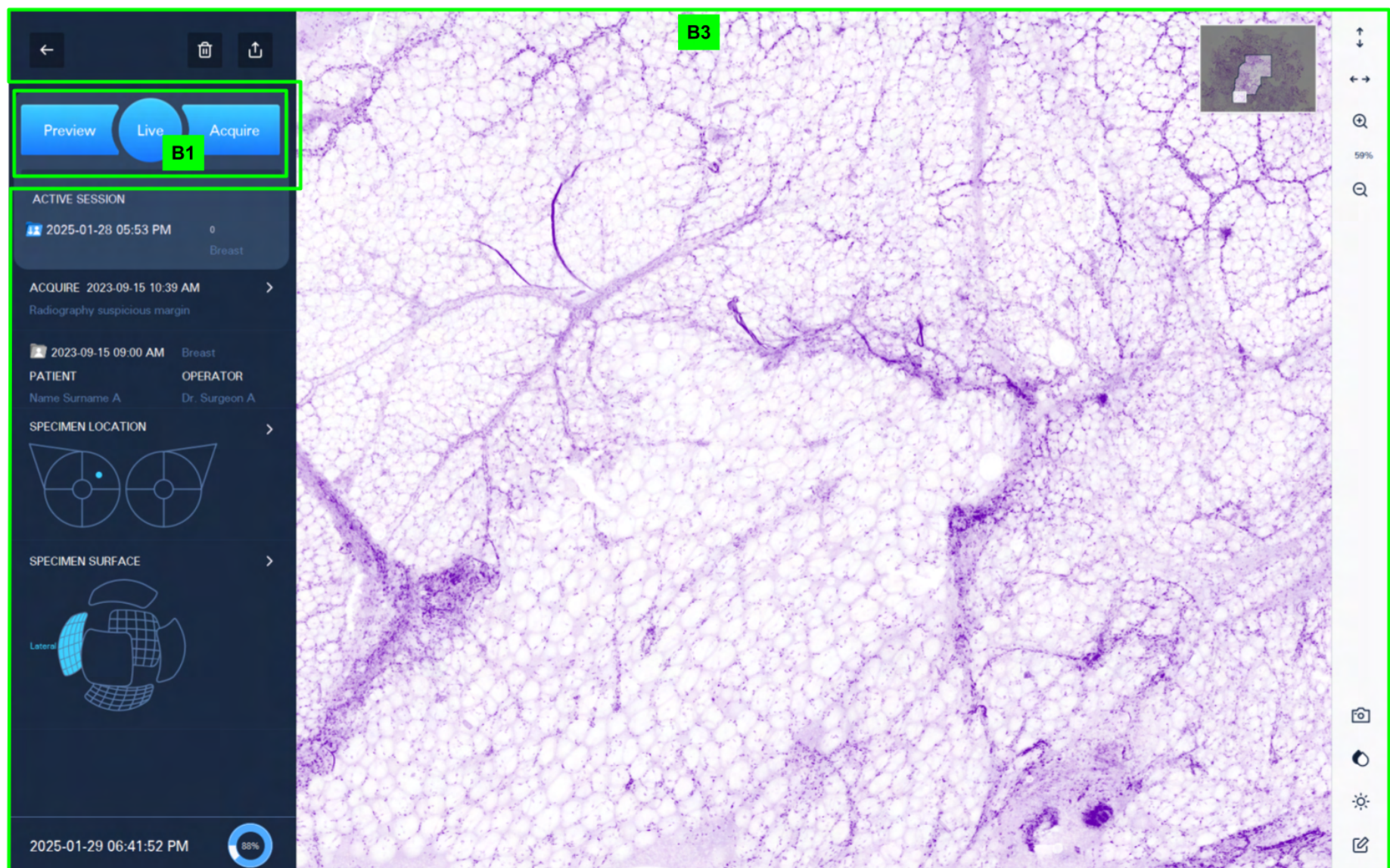
B2.18. All Sessions view. This Gallery view is activated when a user taps on All Sessions button (B2.5). It shows all the sessions that exist in the Gallery. This view features:

B2.18.1. Thumbnail session representations. The thumbnails contain session creation dates and times, Patient Name for each session (if introduced by user), Application Profile of each session, the number of images that each session contains and image icons of the first and the last created images in each session. Tapping on the image icons will open the corresponding session in Single Session Gallery view (B2.16).

Similar to Single Session view, All Sessions view also features Selection tools (B2.16.2), Delete button (B2.16.3) and Export button (B2.16.4). These are the same tools that were already described earlier.

If a Session is selected in the "All Sessions" view, all images contained in that session will be affected by the action (deletion or export).

6.3.6. Image Examiner screen



The second screen of Histolog[®] Scanner application is Image Examiner screen. Like Gallery screen, Image Examiner screen provides users with Acquisition Control Panel (B1) allowing for acquisition of new images. Acquisition Control Panel was explained in section [6.3.4](#) above.

Apart from that, Image Examiner screen provides tools to work with a single Histolog[®] Scanner image. An existing Gallery image can be opened in Image Examiner from Single Session Gallery view (B2.16). A newly produced image (Preview or Acquire) opens automatically in Image Examiner as soon as the image generation process is completed.

Image Examiner screen (B3) features:

- Image contextual data pane;
- Image area with Map;
- Image toolbar.

6.3.6.1. Image contextual data pane

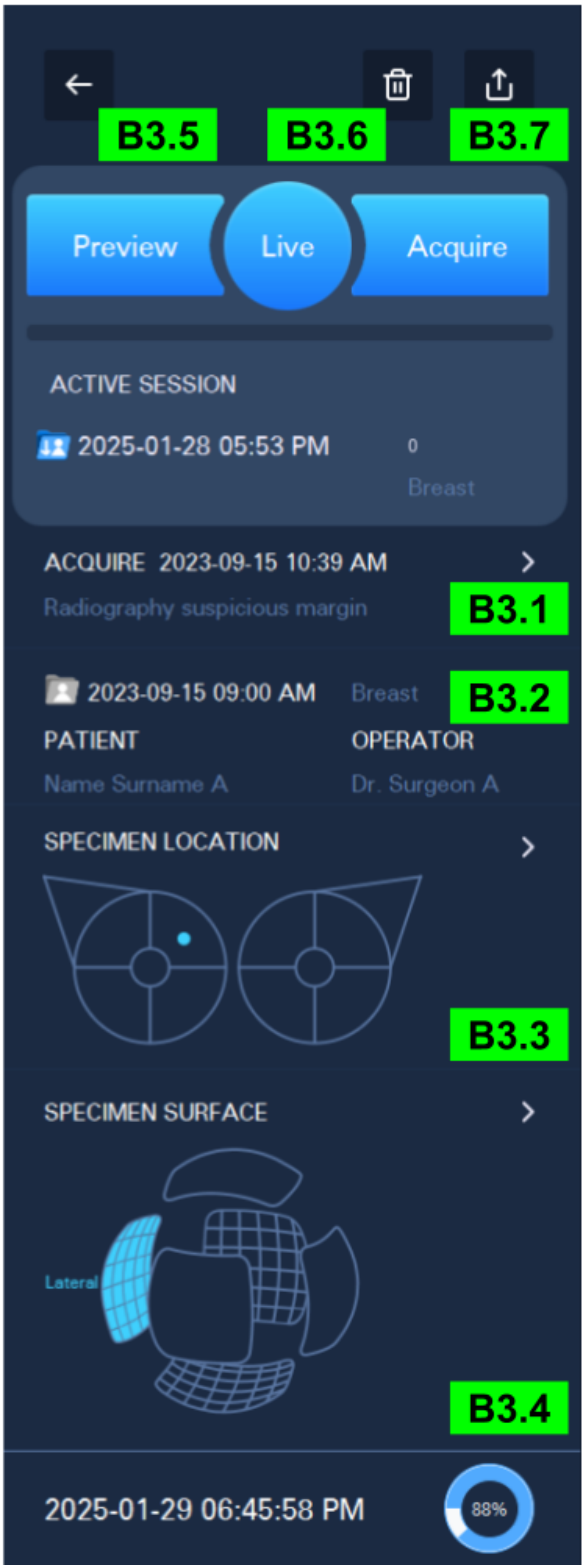
Image contextual data pane includes:

B3.1. Image Timestamp and Description. Image creation date and time cannot be changed, while Image Description, initially empty, can be edited. Edit Image Description, if needed, by tapping the button and enter the description using the virtual keyboard.

B3.2. Session Timestamp and Application Profile, Patient and Operator data. These data are taken from the session where the image belongs. Session Timestamp and Application Profile cannot be edited. Patient and Operator data cannot be edited in Image Examiner, but the Patient data only can be edited, if necessary, on the session level (see B2.12 and B2.13).

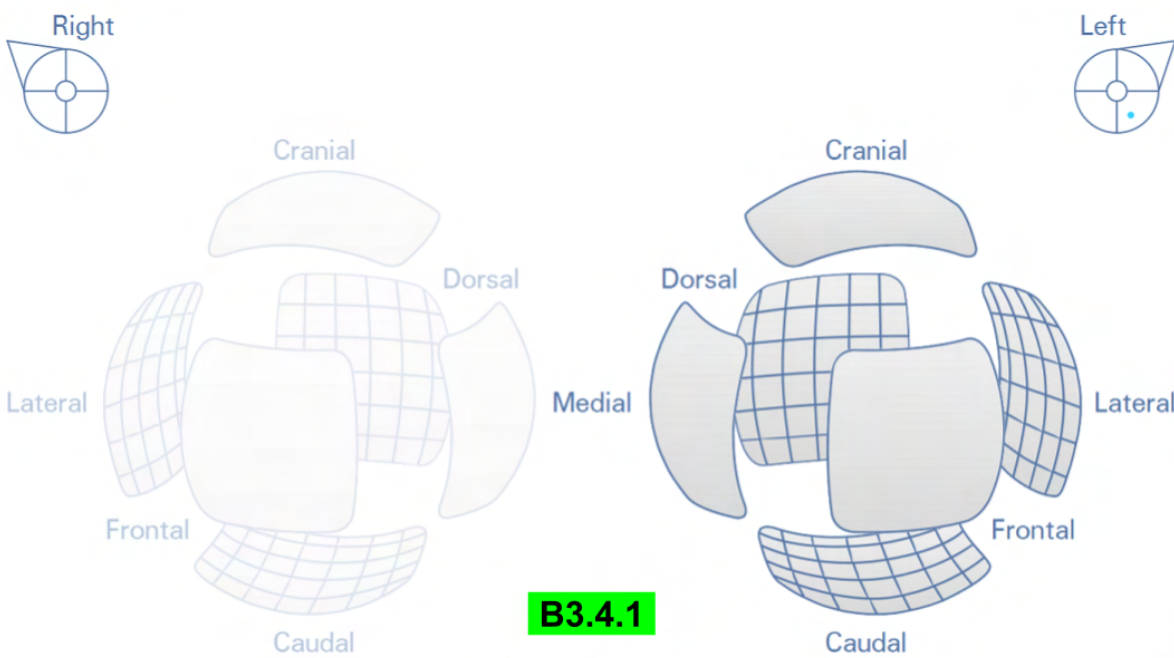
B3.3. Specimen Location or Location. The map displays the location of the imaged specimen for Breast and for Skin Application Profiles or location of interest inside the imaged specimen for Prostate Application Profile,

as it was defined on the session level (see B2.14). Tap this button to use the map according to explanations in B2.17.1 - B2.17.6.



B3.4. Specimen Surface. Tap this button to get a graphical control to document which specimen surface was imaged on the microscope during the imaging process. Breast, Skin and Prostate Application Profiles feature their specific Specimen Surface graphical controls (B3.4.1, B3.4.2, B3.4.3). All the Other profiles share a generic Specimen Surface graphical control (B3.4.4).

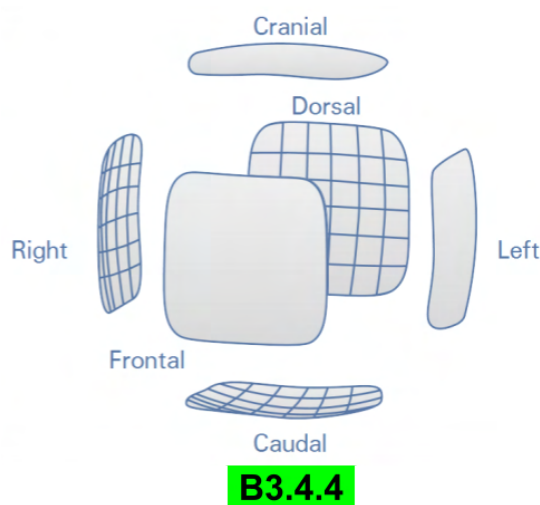
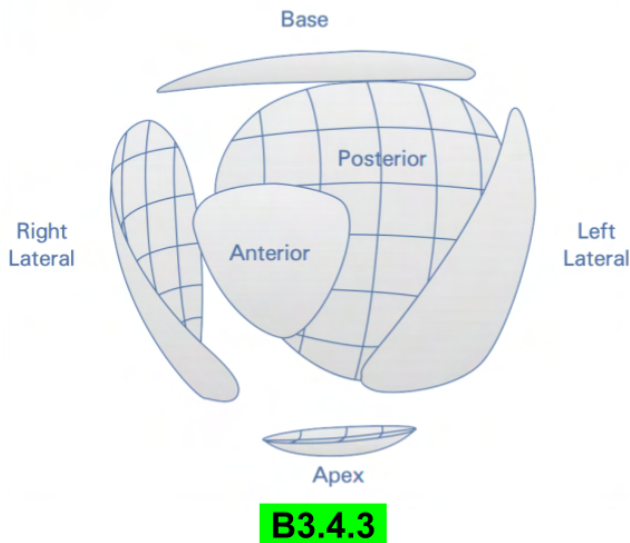
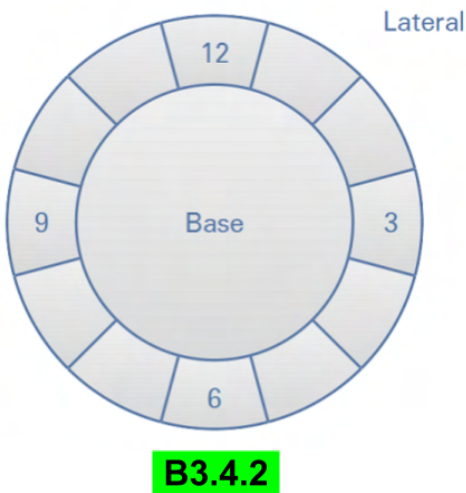
B3.4.1. Specimen Surface for Breast Application Profile. Select the specimen surface that was imaged on the microscope. To document the intermediary surfaces select two neighboring surfaces on the graphical control.



B3.4.2. Specimen Surface for Skin Application Profile. Select the specimen surface that was imaged on the microscope. On the graphical control it is possible to select a continuous set of neighboring segments and/or Base surface.

B3.4.3. Specimen Surface for Prostate Application Profile. Select the specimen surface that was imaged on the microscope. To document the intermediary surfaces select two neighboring surfaces on the graphical control.

B3.4.4. Specimen Surface for Other Application Profiles. Select the specimen surface that was imaged on the microscope. To document the intermediary surfaces select two neighboring surfaces on the graphical control.



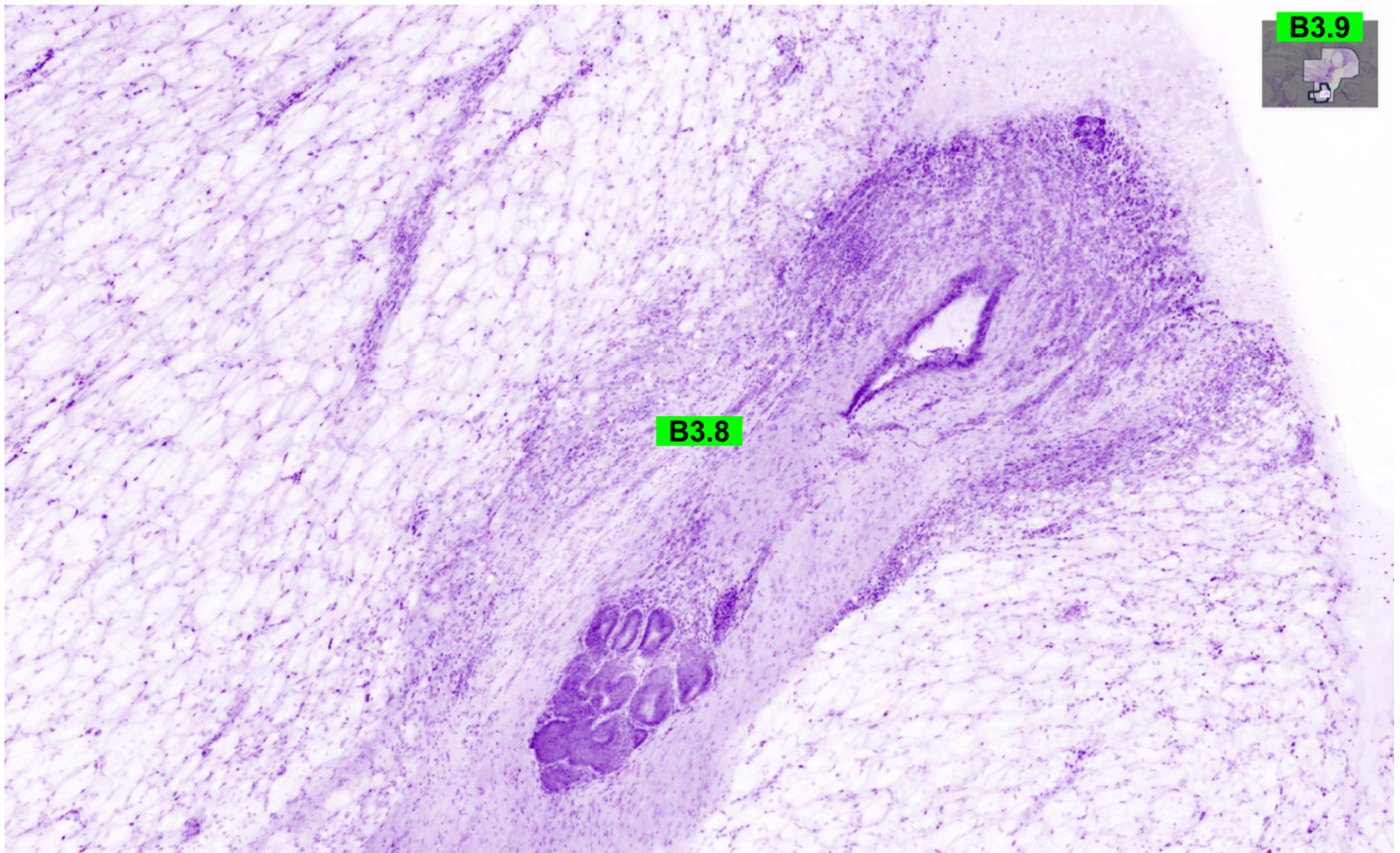
B3.5. Return to Gallery Screen. This button quits Image Examiner Screen and returns to Gallery Screen.

B3.6. Delete button. This button deletes the displayed image, moving it to Deleted Items collection.

B3.7. Export button. This button exports the displayed image to a USB storage or to a network-connected shared drive. It has the same functionality as described earlier for B2.16.4.

6.3.6.2. Image Area with Map

Image Area with Map contains:



B3.8. Image Area. This is the area where the image is displayed. In this area users can work with the image using Image toolbar and navigate through the image using customary touch screen gestures for image navigation.

In particular, for zooming in and out throughout the Image Area users can employ two fingers and pinch them inwards (zoom out) or pinch them outwards (zoom in).

A single touch anywhere within the image area will hide Image contextual data pane and Image toolbar, displaying the Image Area in a full screen view. A single touch on the full screen displayed Image Area will return the display of the previously hidden Image contextual data pane and Image toolbar.

B3.9. Map. The navigation map located in the top right corner of the Image Area displays, in miniature, the entire image and indicates which portion of the full image is currently displayed in the Image Area. The navigation map also shows the traces of user navigation that was performed on the image. The traces correspond to two zoom levels: $25\% \leq \text{zoom} < 100\%$ and $100\% \leq \text{zoom}$. The former is used for reviewing images to locate areas of interest. The latter is used for detailed view of the areas of interest. The navigation traces accompany an image when it is exported to Histolog format or to PDF report. This allows for an easy documentation of navigation traces showing the image areas that were reviewed in the Image Examiner. Traces corresponding to zoom levels $< 25\%$ are neither shown, nor recorded.

6.3.6.3. Image toolbar

The Image toolbar located on the right side of the Image Examiner screen contains a set of tools that can be used to work with the displayed image:



B3.10. Fit to Screen Height. Touching this button displays the image minimized to fit to screen height. This is the minimum zoom level: image may not be further zoomed out. It is also the default zoom level when an image is opened in Image Examiner.

B3.11. Fit to Screen Width. Touching this button displays full screen view: the image fits to screen width and hides Image contextual data pane and Image toolbar. A single touch on the Image will return the display of the previously hidden Image contextual data pane and Image toolbar.

B3.12. Zoom in button. This button can be used to zoom in the image. Each tap further zooms in the image.

B3.13. Zoom level indicator. This indicator shows the zoom level of the current image display.

B3.14. Zoom out button. This button can be used to zoom out the image. Each tap further zooms out the image.



B3.15. Snapshot. This button creates a snapshot image that contains all graphical information currently displayed in the Image Area (including all visualization effects and annotations introduced by the user). The produced Snapshot image is saved to the same Session where its originating image belongs to.

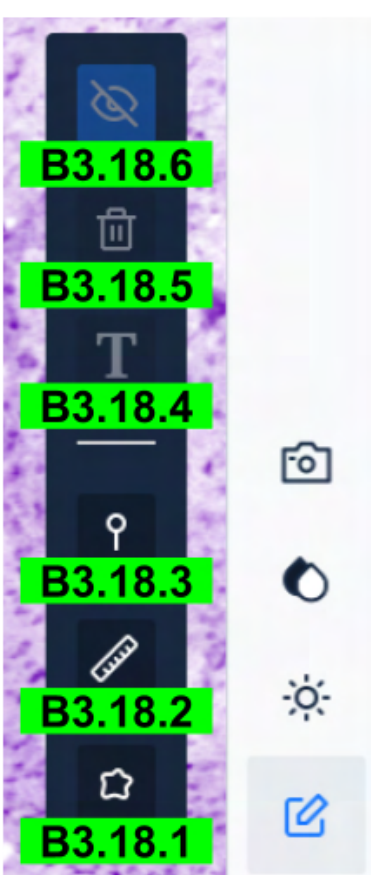
B3.16. Image Color Mode. This button switches image display between grayscale or color.

B3.17. Contrast. This control provides users with a possibility to adjust contrast of displayed images. Pressing the button adjusts the contrast with an automatic optimization for the current Image area displayed on the screen and displays the graphical popup control. The graphical popup control has an **adjustment slider** (B3.17.1) - for free contrast adjustments, and **Reset button** (B3.17.2) - to quickly return to the initial, non-adjusted display.

Navigating the image to another area or zoom level will make the graphical popup control disappear. Pressing the contrast button again will optimize for the new Image area displayed on the screen and display the graphical popup control again.

B3.18. Annotations. A toolbar is activated by tapping B3.19 button. It contains the tools allowing users to add graphical and textual annotations to the displayed image:

B3.18.1. Free Form button. This tool is used to add free form annotations on the image. Activate tool by tapping the button. With the tool active (colored in blue), draw a shape by tapping in the Image Area and moving your finger along the desired path. Upon releasing, the tool automatically closes the form by linking the start point to the end point.



B3.18.2. Ruler button. This tool is used to add ruler annotations on the image. This tool allows the user to measure a distance. Activate tool by tapping the button. With the tool active (colored in blue), tap in the Image Area at the desired start position and drag to the desired end position.



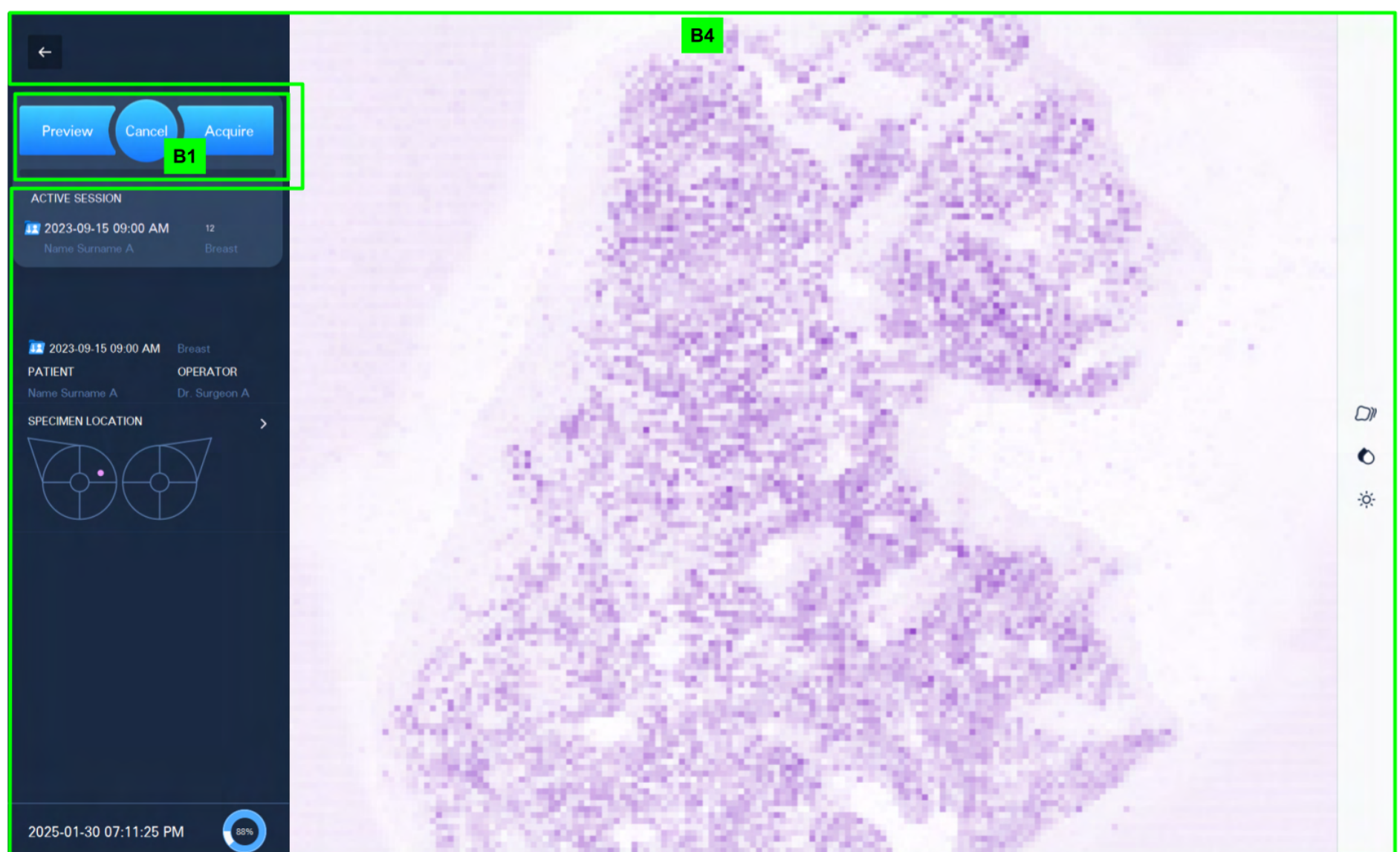
B3.18.3. Pinpoint button. This tool is used to add pinpoint annotations on the image. Activate tool by tapping the button. With the tool active (colored in blue), tap in the Image Area at the desired location where to add a pin.

B3.18.4. Text. This button is used to add text annotation to a selected graphic annotation (Free Form, Ruler or Pinpoint).

B3.18.5. Delete Annotation. This button is used to delete a selected graphic annotation (Free Form, Ruler or Pinpoint).

B3.18.6. Annotation Visibility. The button is used to show or hide the display of all annotations on the image.

6.3.7. Live Mode screen



The third screen of the Histolog[®] Scanner application is the Live Mode screen. It is used to provide a real time evaluation of the specimen positioning and stabilization. Live Mode visualization cannot be used to produce images of the specimen. Like Gallery screen and Image Examiner screen, Live Mode screen provides users with Acquisition Control Panel (B1) allowing for capturing of new images. The Acquisition Control Panel is explained in section [6.3.4](#) above.

Live Mode visualization is activated using “Live” button (B1.6). The visualization is a low resolution live view on the imaged specimen surface. Live Mode supports two useful functions:

- Specimen positioning (section [6.3.7.1](#))
- Specimen stabilization (section [6.3.7.2](#))

Live Mode screen features a toolbar that is presented in section [6.3.7.3](#) and Session contextual data pane that is presented in section [6.3.7.4](#).

6.3.7.1. Specimen positioning

The live view allows users to position the specimen surface properly on the Histolog[®] Scanner's imaging window [F] by providing a real time live feedback indicating the areas of the specimen surface that will be visible on the images. This enables the adjustment of the specimen positioning onto the imaging window and ensures correct positioning with relevant surface to be imaged.

6.3.7.2. Specimen stabilization

Human tissue has a certain physical elasticity and specimens positioned onto the imaging window [F] require some time to get stabilized with regard to the microscopic motions. In the case the imaging process is initiated before complete stabilization of the specimen, image quality may be impacted by microscopic motions.

To help users with monitoring of the specimen stabilization, Live Mode features a dedicated Specimen Stabilization Monitoring tool. The tool is activated by default and can be deactivated using the  button on the toolbar (6.3.7.3). When activated, the tool displays a semi-transparent overlay colors layer over the live view, showing:

- no overlay over the visualization areas where the specimen is stabilized (the specimen is not moving);
- semi-transparent yellow color overlay over the visualization areas where the specimen is slightly moving ;
- semi-transparent red color overlay over the visualization areas where the specimen is moving significantly.



For a good imaging quality the yellow segments can be tolerated, though they are undesirable, while the red segments should be avoided as they result in the image areas with a substantial amount of artifacts.

Good Practice for high quality imaging

- Activate the Stabilization Monitoring tool after finishing a correct specimen positioning (6.3.7.1).
- Wait until all the red segments fade away and the yellow segments become rare or also fade away.
- Launch image acquisition process.

6.3.7.3. Live Mode toolbar

On the right side of Live Mode screen there is a toolbar with the following buttons:

B4.1. Specimen Stabilization Monitoring button activates Specimen Stabilization Monitoring tool that was explained in its dedicated section [6.3.7.2](#). When the tool is active, the button switches to blue. Tapping another time on the button will deactivate the tool.

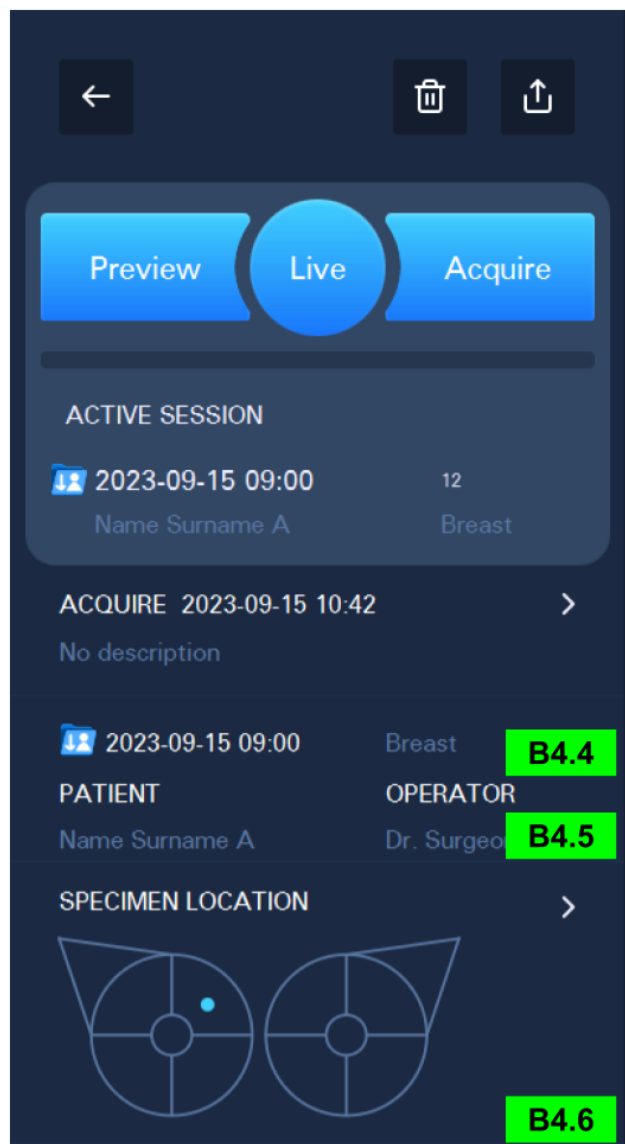
B4.2. Visualization Color Mode. This button switches the live visualization display between grayscale or color. The button is similar to the button B3.16 from the Image Examiner screen toolbar.

B4.3. Contrast. This control provides users with a possibility to automatically adjust an optimal contrast of the displayed visualization. The button is similar to the button B3.17 from the Image Examiner screen toolbar. Its graphical popup control also has:

- **An adjustment slider** - for free contrast adjustments.
- **Reset button** - to quickly return to the initial, non-adjusted display.



6.3.7.4. Session contextual data pane



Session contextual data pane on the left side of Live Mode screen includes:

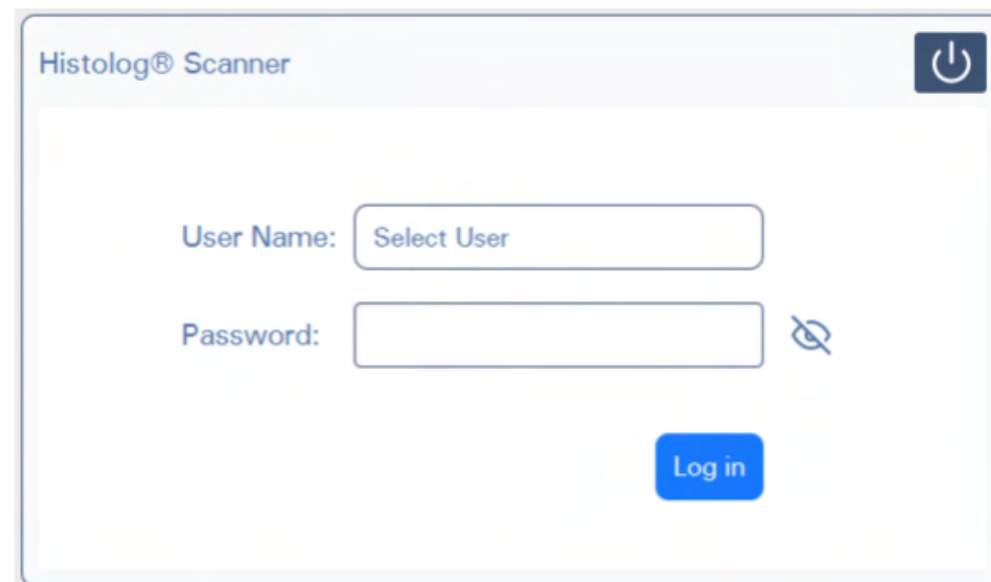
B4.4. Active Session Timestamp and Application Profile. The data pane displays the active session creation date, time and Application Profile that cannot be changed. Acquisitions of new images launched from the Live Mode screen will write their resulting images in the active session.

B4.5. Active Session Patient and Operator data. These data cannot be edited in Live Mode, but the Patient can be edited, if necessary, on the session level (see B2.12 and B2.13).

B4.6. Specimen Location. The map displays the location of the visualized specimen, as it was defined on the session level (see B2.14). Tap this button to use the map according to explanations in B2.17.1 - B2.17.6.

6.4. Use of Histolog[®] Scanner Software Application

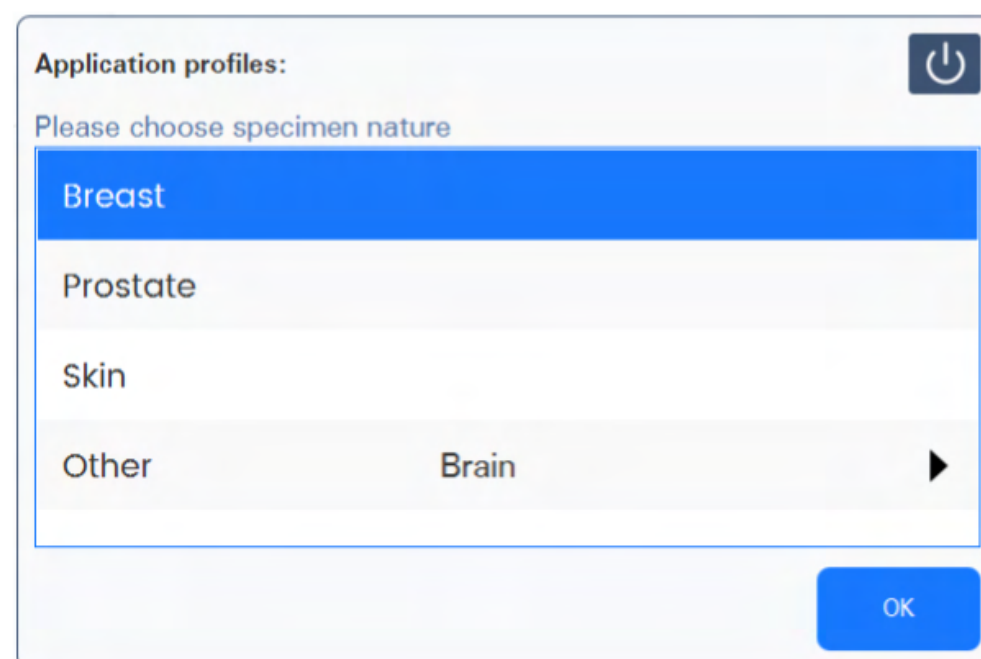
6.4.1. Log in to the Histolog[®] Scanner Software Application



The picture above shows the dialog window that is displayed to users after the application startup. The dialog window allows users to log in to the application.

1. Tap the User Name field to select your user name from the list of users that have an account created on the device.
2. Use the on-screen virtual keyboard to enter your password.
3. Press Log in button to log in to the Histolog[®] Scanner Software Application.

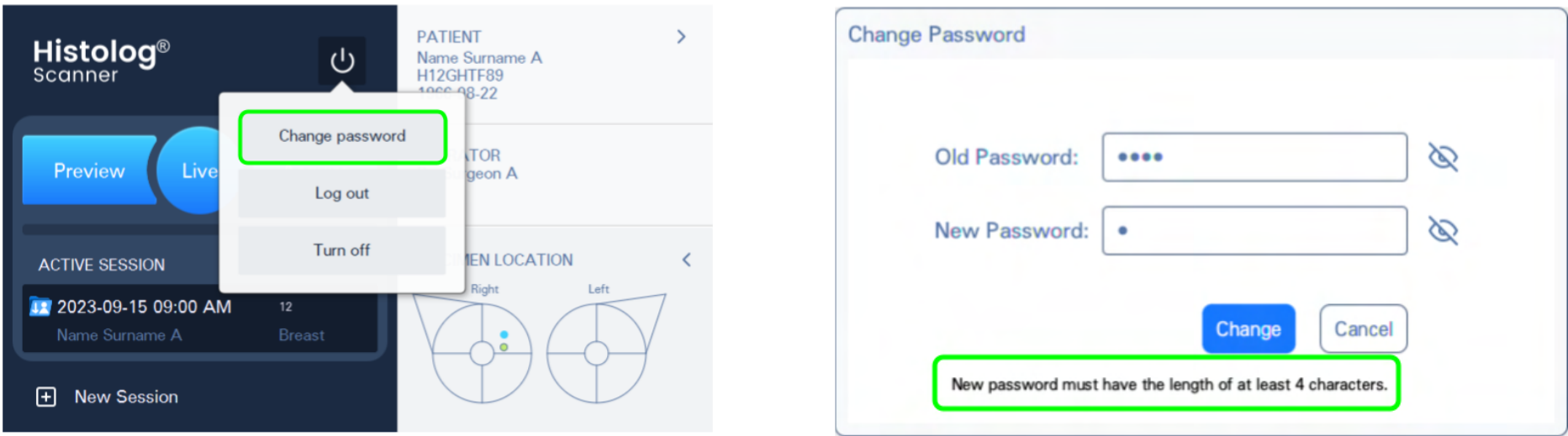
6.4.2. Select Application Profile for the new Session



At first User has to select an Application Profile for the new imaging Session. The picture above shows the dialog window that is displayed to users allowing them to select an Application Profile that corresponds to the specimen nature for their imaging Session.

1. From the list of supported profiles select the Application Profile that corresponds to the specimen nature for your new imaging Session. Breast, Skin and Prostate are the three profiles that have their specialized specimen documentation workflows. The dialog option Other allows you to select among 25 other profiles that share a generic specimen documentation workflow.
2. Press the OK button to confirm your selection.

6.4.3. Change password



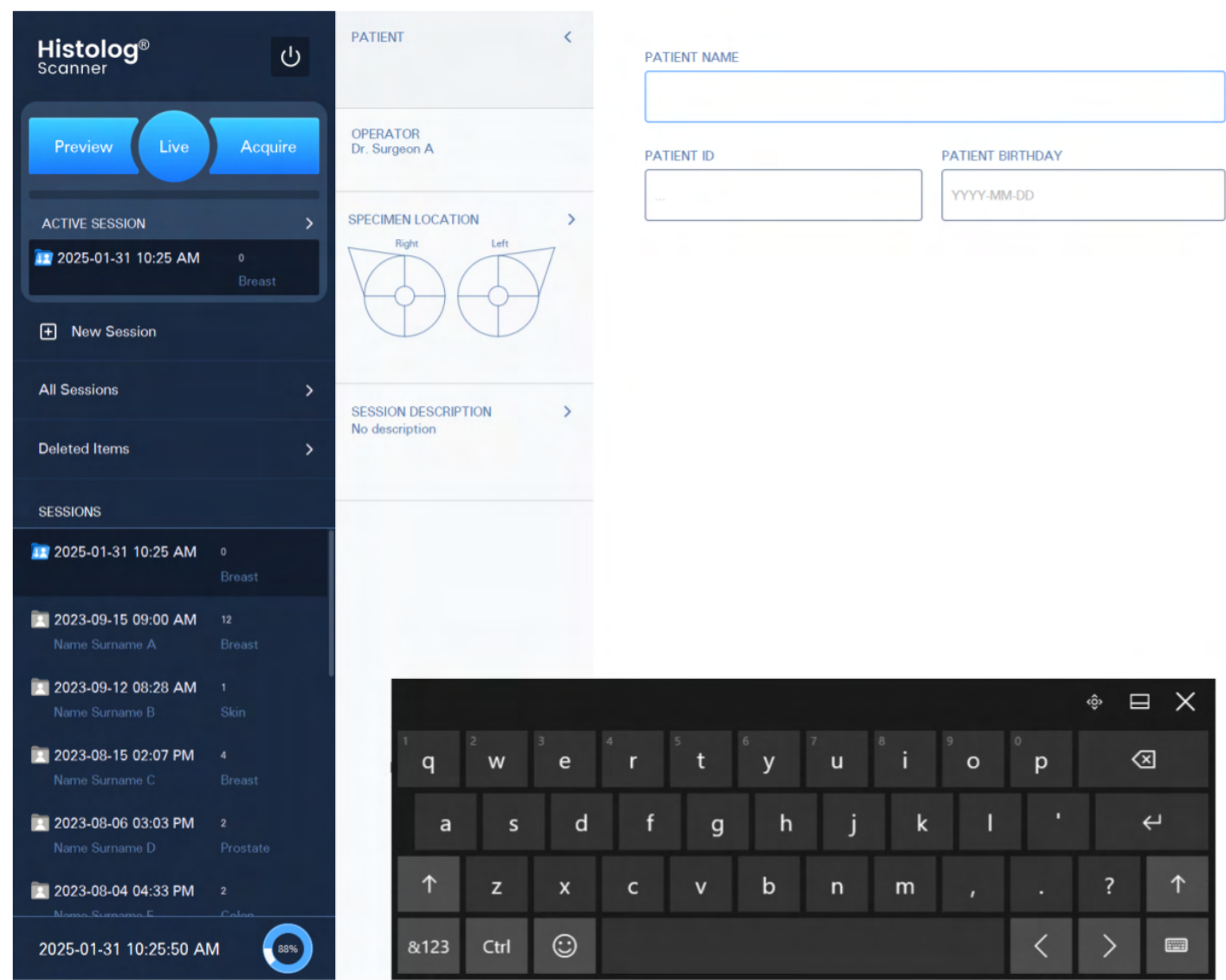
The pictures above show the menu displaying the “Change password” button and the “Change Password” dialog window. Press the button to get the dialog window displayed on the screen. Use the dialog window to change the password. Fill in the old password in the first text field, then the new password in the second text field. If needed, press on the eye icon next to the input fields to display the password in plain text.

Finally, validate the change by pressing the “Change” button.

The password must match the criteria defined in section [8.1.1](#) (B5.2. Create a new user account.)

If the user presses the “Cancel” button, then the change password action will be canceled and the old password will remain valid.

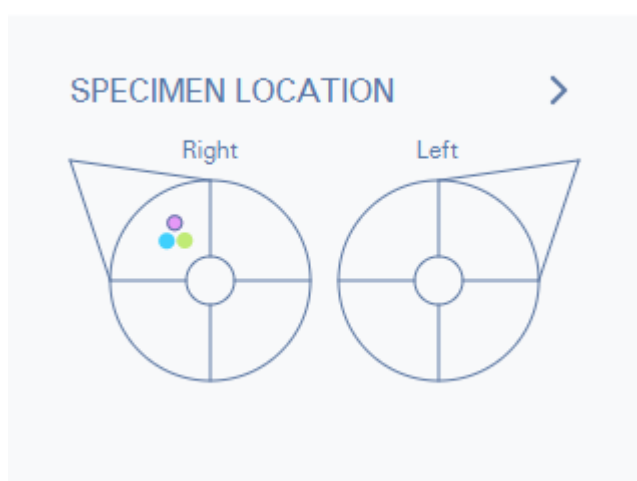
6.4.4. Enter Session contextual data



The picture above shows the screen of Histolog[®] Scanner after creation of a new Session. A new Breast profile Session is presented in this example. The application created a new session and invites users to enter the session contextual data. This step can be partially or entirely skipped to allow the user to immediately proceed

with specimen imaging. Also all or a part of the session data can be entered or edited anytime later, even after the session has been terminated. However, it is recommended to enter session data before engaging in the imaging process.

1. If Patient data entry is not activated, tap PATIENT button.
2. Using the on-screen virtual keyboard enter Patient Name, Patient ID and Patient Birthday for the patient whose specimens will be imaged during the current session. For your convenience, you can enter Patient Birthday in DDMMYYYY format without separating dots (the dots will be added automatically by Histolog[®] Scanner Software Application).
3. OPERATOR field displays the authenticated user's data as Operator Name.
4. If applicable for the selected Application Profile, tap SPECIMEN LOCATION button.
5. Using the Specimen Location map graphical control add to the map a location indicating position where the specimen imaged during the current session is (or will be) located.



NOTE Specimen Location map is only available in Breast and in Skin Application Profiles. The image above presents an example of the Breast Specimen Location map. Software Application allows for adding several (up to five) locations for the specimens imaged during the current session. In case multiple specimens will be imaged in the session, it is not necessary to add all locations together beforehand. A specimen location can be added and assigned to images anytime later.

NOTE Newly produced images will be automatically assigned to the last added specimen location. This location is marked with a border line around its color tag on the map. If no location was introduced by the user, then the images will be assigned to an unknown location. Any assignment of the produced images to a location can be changed anytime later, as well as adding new locations, or moving existing locations on the map.

6. If applicable for the selected Application Profile, tap LOCATION button.
7. Using the Location map graphical control, add to the map a location of interest indicating position where the interesting part is located on the specimen imaged during the current session.

NOTE Location map is only available in Prostate Application Profile. Software Application allows for adding several (up to five) locations of interest for the specimen imaged during the current session. It is not necessary to add all locations together beforehand. A location of interest can be added and assigned to images anytime later.

8. Tap SESSION DESCRIPTION button.
9. Using the on-screen virtual keyboard enter a description of the current session.

6.4.5. Position a tissue specimen

1. As recommended in the instructions for use of the Histolog[®] Scanner hardware, place the tissue specimen on the optical interface of the Histolog[®] Dish, with the surface of interest pointing downwards in contact with the Histolog[®] Dish.
2. Tap Live button (B1.6) to activate Live Mode.
3. Using the live visualization, make sure that the area of interest of the tissue specimen surface is positioned over the image area and that it is in contact with the optical interface of the Histolog[®] Dish to guarantee its complete imaging.
4. Tap on Specimen Stabilization Monitoring button (B4.1) to activate the stabilization monitoring tool.

- Using the stabilization monitoring tool indications make sure that the specimen is stabilized over the imaging window [F], assuring a good imaging quality.

NOTE The use of Live Mode and of Specimen Stabilization Monitoring tool is not mandatory but is highly recommended to assure the presence of required image content and a good image quality.

6.4.6. Generate an image of a tissue specimen

There are two modes to produce an image with the Histolog[®] Scanner Software Application:

Preview mode provides a rapid, low resolution image of the tissue specimen. This allows to visualize tissue morphology and for example, to verify a correct positioning of the tissue specimen on the Histolog[®] Dish.

Acquire mode provides a high resolution image. Generation of an Acquire image will take more time than with the Preview.

6.4.6.1. Generate a Preview image

- Tap on Preview button (B1.1).
- Wait for the Progress indicator (B1.5) to indicate a full completeness state.

NOTE You may cancel the current operation at any time before the full completeness of image visualization using Cancel button (B1.2).

- The Preview image will be automatically opened in Image Examiner screen.

NOTE When generated, Preview images are automatically saved in their dedicated Session folder that is active for their acquisition.

6.4.6.2. Generate an Acquire image

- Tap on Acquire button (B1.3).
- Wait for the Progress indicator (B1.5) to indicate a full completeness state.

NOTE You may cancel the current operation at any time before the full completeness of image visualization using Cancel button (B1.4).

- The Acquire image will be automatically opened in Image Examiner screen.

NOTE When generated, Acquire images are automatically saved in their dedicated Session folder that is active for their acquisition.

6.4.7. Open an image from the Gallery in Image Examiner screen

To open an image from the Gallery:

- Find and open the Session where the image is stored.
- Tap on the thumbnail of the image to open it.

6.4.8. Navigate within an image in Image Examiner screen

- To locate an area of interest on a displayed image, use zoom in and zoom out functions either with pinching gestures on the display (described in B3.8) or with the dedicated zoom controls (B3.10-B3.14) from the image toolbar.
- Navigate within the image with dragging touch movements on the display.
- Map control (B3.9) located in the top right corner of the image allows to identify which portion of the full image is currently displayed in the Image Area and shows the navigation traces.

6.4.9. Change image Color Mode in Image Examiner screen

NOTE Preview and Acquire images are always displayed in color per default.

- To put in grayscale a displayed image, tap on Color Mode tool button (B3.16).
- To recolor a displayed image, tap once again on Color Mode tool button (B3.16).

6.4.10. Save a Snapshot of a displayed image

With Snapshot tool button (B3.15), it is possible to save a snapshot of a displayed Preview or Acquire image. This function is used for example to save:

- a magnified area of interest in particular.
- an image with Annotations and/or Orientation Mark.

The saved Snapshot will be automatically saved under the corresponding Session folder distinguishable with the image type “Snapshot” (B2.16.1).

6.4.11. Adjust image Contrast

For a Preview or an Acquire image opened in Image Examiner screen:

1. Tap Contrast control button (B3.17) to activate the optimized contrast adjustment and to access the manual contrast adjustment tool.
2. Use the adjustment slider (B3.17.1) and/or Reset button (B3.17.2) to adjust for your convenience Contrast of the image view displayed on the screen.

6.4.12. Add image description

For an image opened in Image Examiner screen:

1. Tap Image Timestamp and Description button (B3.1).
2. Using on-screen virtual keyboard enter description for the image.
3. Tap Image Timestamp and Description button once again to return to the image display.

6.4.13. Specify Specimen Surface for an image

In sessions of Breast and of Skin Application Profiles if the Specimen Location (B3.3) has been defined, a Specimen Surface can be specified for each Preview or Acquire image. In sessions of Prostate and of Other Application Profiles a Specimen Surface can be specified for each Preview or Acquire image with no dependency on image’s Locations.

1. Tap Specimen Surface button (B3.4).
2. On the activated graphical control, select which specimen surface was imaged.
 - a. In sessions of Breast, of Prostate and of Other Application Profiles select either one surface (if it corresponds to the imaged area) or a combination of two neighboring surfaces (if the imaged area is located between two neighboring faces).
 - b. In sessions of Skin Application Profile select a continuous set of neighboring segments and/or Base surface.
3. Tap Specimen Surface button once again to return to the image display.

NOTE For a Preview or an Acquire image, its Specimen Surface can be defined already during the image acquisition process (in Breast and in Skin Application Profiles only if the image’s Specimen Location (B3.3) is defined before that).

6.4.14. Work with Annotations on an image

6.4.14.1. Work with Free Form Annotations

For a Preview or an Acquire image opened in Image Examiner screen:

1. Tap Annotation toolbar button (B3.18) to activate the corresponding control.
2. Tap on Free Form Annotation button (B3.18.1) to activate the corresponding tool.
3. Draw with a finger to create the free form.
4. Tap on Free Form Annotation button (B3.18.1) to deactivate the tool.
5. Select the Free Form Annotation by tapping on its border.
6. Activate text annotation for the selected free form annotation by tapping on Text Annotation button (B3.18.4).
7. Using the on-screen virtual keyboard, add a text annotation to the free form annotations.

8. Tap anywhere within the image area to close the text editor.
9. Move the text annotation by dragging it with a finger to a convenient place.
10. Tap on Text Annotation button (B3.18.4) to reactivate the text annotation tool.
11. Change the text annotation using the virtual keyboard.
12. Tap on Annotation Visibility button (B3.18.6) to hide the annotations.
13. Tap once again on Annotation Visibility button (B3.18.6) to show existing annotations.
14. Tap on the line of free form annotations that you added on step 3 in order to select the annotation.
15. Delete the selected annotation using Delete Annotation button (B3.18.5)
16. Tap on Annotation toolbar button (B3.18) to deactivate the corresponding control.

6.4.14.2. Work with Ruler Annotations

For a Preview or an Acquire image opened in Image Examiner screen:

1. Tap Annotation toolbar button (B3.18) to activate the corresponding control.
2. Tap on Ruler Annotation button (B3.18.2) to activate the corresponding tool.
3. Introduce a ruler annotation on the image by drawing the corresponding line with a finger.
4. For the added ruler, drag the ruler anchors to adjust the ruler position on the image.
5. For the added ruler, drag textual indication of the ruler length to a convenient place on the image.
6. Tap on Ruler Annotation button (B3.18.2) to deactivate the tool.
7. Tap on the ruler annotation that you added on step 3 in order to select the annotation.
8. Tap on Text Annotation button (B3.18.4) to activate text annotation for the selected ruler annotation.
9. Using the on-screen virtual keyboard add a text annotation to the ruler annotation.
10. Tap anywhere within the image area to close the text editor.
11. Move the text annotation by dragging it with a finger to a convenient place.
12. Tap on Text Annotation button (B3.18.4) to reactivate the text annotation tool.
13. Change the text annotation using the virtual keyboard.
14. Tap on Annotation Visibility button (B3.18.6) to hide the annotations.
15. Tap once again on Annotation Visibility button (B3.18.6) to show existing annotations.
16. Tap on the ruler annotation that you added on step 3 in order to select the annotation.
17. Delete the selected annotation using Delete Annotation button (B3.18.5)
18. Tap on Annotation toolbar button (B3.18) to deactivate the corresponding control.

6.4.14.3. Work with Pinpoint Annotations

For a Preview or an Acquire image opened in Image Examiner screen:

1. Tap Annotation toolbar button (B3.18) to activate the corresponding control.
2. Tap on Pinpoint Annotation button (B3.18.3) to activate the corresponding tool.
3. Introduce a pinpoint annotation on the image by touching the image area.
4. Drag the added pinpoint with a finger to adjust its position on the image.
5. Tap on Pinpoint Annotation button (B3.18.3) to deactivate the tool.
6. Tap on the pinpoint annotation that you added on step 3 in order to select the annotation.
7. Tap on Text Annotation button (B3.18.4) to activate text annotation for the selected pinpoint annotation.
8. Using the on-screen virtual keyboard add a text annotation to the pinpoint annotation.
9. Tap anywhere within the image area to close the text editor.
10. Move the text annotation by dragging it with a finger to a convenient place.
11. Tap on Text Annotation button (B3.18.4) to reactivate text annotation tool.
12. Change the text annotation using the virtual keyboard.
13. Tap on Annotation Visibility button (B3.18.6) to hide the annotations.
14. Tap once again on Annotation Visibility button (B3.18.6) to show existing annotations.
15. Tap on the pinpoint annotation that you added on step 3 in order to select the annotation.
16. Delete the selected annotation using Delete Annotation button (B3.18.5)
17. Tap on Annotation toolbar button (B3.18) to deactivate the corresponding control.

6.4.15. Export Gallery content to an external storage device

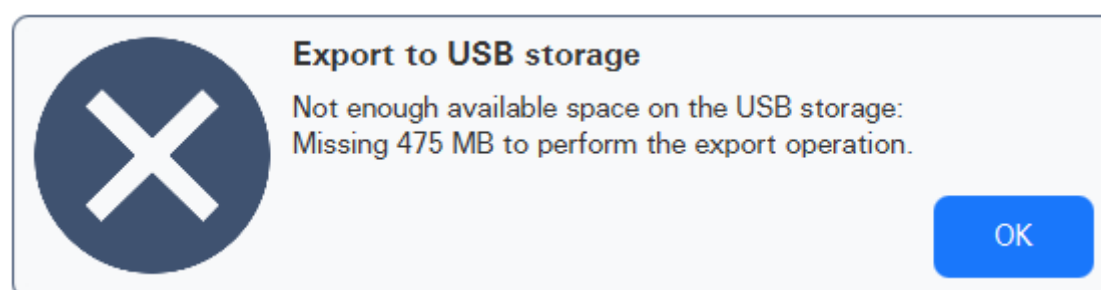
To export to an external storage device:

1. Connect your external storage device to the Histolog[®] Scanner. You can either connect a USB storage to USB port [D] of the Histolog[®] Scanner, or with a network connection on the Ethernet port [E] you can use a network-connected shared drive configured on the Histolog[®] Scanner by an 'admin' user.

NOTE Using high speed USB storage devices will allow for faster exporting.

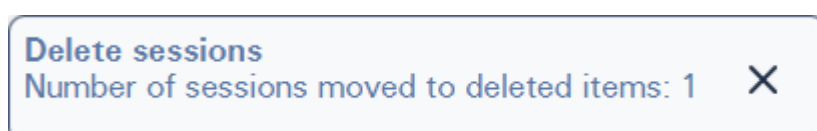
2. Select the Gallery content that you want to export using selection tools (B2.16.2).
3. Tap on Export button (B2.16.4) to display export options.
 - a. Tap on the option "Export to image format" to copy the selected content of the Gallery to your storage device as image files that can be viewed using a standard third-party viewer. In your storage you will find a folder named as your Histolog[®] Scanner Serial Number, created for exports from the device. The folder will contain "Export image(s)" subfolder with the name postfixed by a timestamp (YYYY-MM-DD_HH-MM-SS) of your export. You will find your exported sessions and images in this subfolder.
 - b. Tap on the option "Export to Histolog format" to copy the selected Gallery content to your storage device together with the metadata (including the session contextual data, images data and annotations of the images) that can be viewed using the Histolog[®] Viewer software application. In your storage you will find a folder named as your Histolog[®] Scanner Serial Number, created for exports from the device. The folder will contain "Export image(s) and metadata" subfolder with the name postfixed by a timestamp (YYYY-MM-DD_HH-MM-SS) of your export. You will find your exported sessions and images with the corresponding metadata in this subfolder.
 - c. Tap on the option "Export to PDF report(s)" for exporting a PDF report containing all the data related to the selected sessions and images to your storage. In your storage you will find a folder named as your Histolog[®] Scanner Serial Number, created for exports from the device. The folder will contain "Export report(s)" subfolder with the name postfixed by a timestamp (YYYY-MM-DD_HH-MM-SS) of your export. You will find your exported reports (one per selected session) in this subfolder.
4. A pop-up window will show the export progress. Wait for the progress indication to reach a full completeness state.
5. In case of export to a USB storage, disconnect your USB storage device from Histolog[®] Scanner USB port.

NOTE If there is not enough space on the external storage, a pop-up window will appear. Acknowledge the message by tapping "OK" and try again with more available space on your external storage.



6.4.16. Delete Gallery content

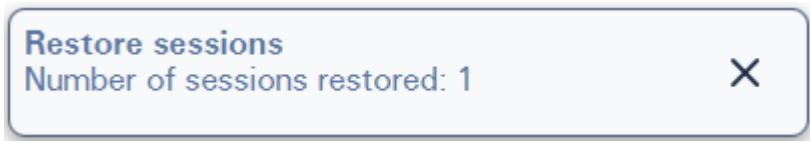
1. Select the Gallery content you want to delete using selection tools (B2.16.2).
2. Tap the Delete button (B2.16.3) to delete the selected content. The deleted selection will be moved to "Deleted Items" collection.
3. After deletion of the selected content, a temporary confirmation message will appear in the lower right corner of the screen. The message will disappear after several seconds.



6.4.17. Restore deleted Gallery content

1. Press Deleted Items button (B2.6) to see the items that were previously deleted from their original location in Gallery.
2. Select the content that you want to restore using selection tools (B2.16.2).
3. Use Restore button  to restore the selected content that will be displayed again in the Gallery.

4. After restoring the selected content, a temporary confirmation message will appear in the lower right corner of the screen. The message will disappear automatically after several seconds.



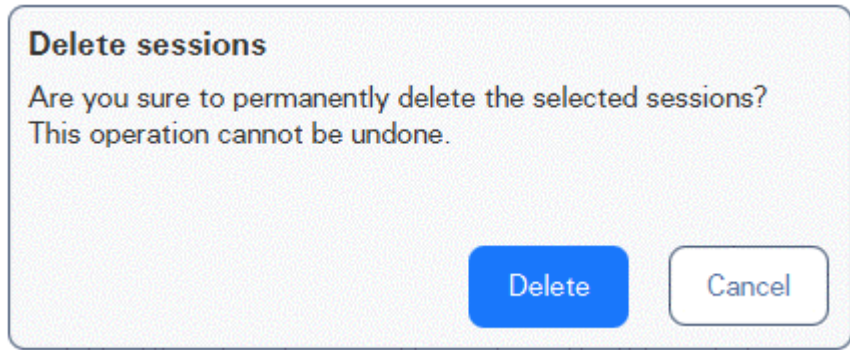
6.4.18. Permanently delete Gallery content

1. Press Deleted Items button (B2.6) to see the items that were previously deleted.
2. Select the content that you want to permanently delete from the Histolog[®] Scanner using selection tools (B2.16.2).
3. Tap the Delete button  to permanently delete the selected content.

NOTE Permanent deletion cannot be undone. Deleted content will be lost for good.

NOTE Permanent deletion is the only way to free the Histolog[®] Scanner storage space.

If you are sure that you really want to permanently delete the selected content, then confirm your action by clicking on “Delete” on the confirmation dialog. Otherwise, click on “Cancel” to cancel permanent deletion.



4. A temporary confirmation message will appear in the lower right corner of the screen. The message will disappear after several seconds.



7. Remote Collaboration

7.1. About Remote Collaboration

The Histolog[®] Scanner Software Application supports the use of the Histolog[®] Scanner by remote users who can connect to the scanner over the network from a remote location. This use scenario is called Remote Collaboration. During the Remote Collaboration a remote user connected to the scanner sees and controls on his/her computer screen the same content that is displayed on the screen of the scanner. In such a way the remote user and the scanner's Operator work simultaneously with the same content. Up to 5 simultaneous remote connections to a single Histolog[®] Scanner device are supported by the Software Application.

To use the Remote Collaboration a Histolog[®] Scanner must be connected to the network (see section [5.1 Overview](#) [E]), the corresponding Remote Collaboration infrastructure must be configured by 'admin' user (see section [8.2](#)) and remote users of the scanner must be added by 'admin' user (see section [8.2](#)).

NOTE The Remote Collaboration allows to remotely view what is displayed on the Histolog[®] Scanner screen and to operate the device remotely. It does not provide text chat, voice or video communication means to the users.

NOTE The remote user's computer must match the following requirements:

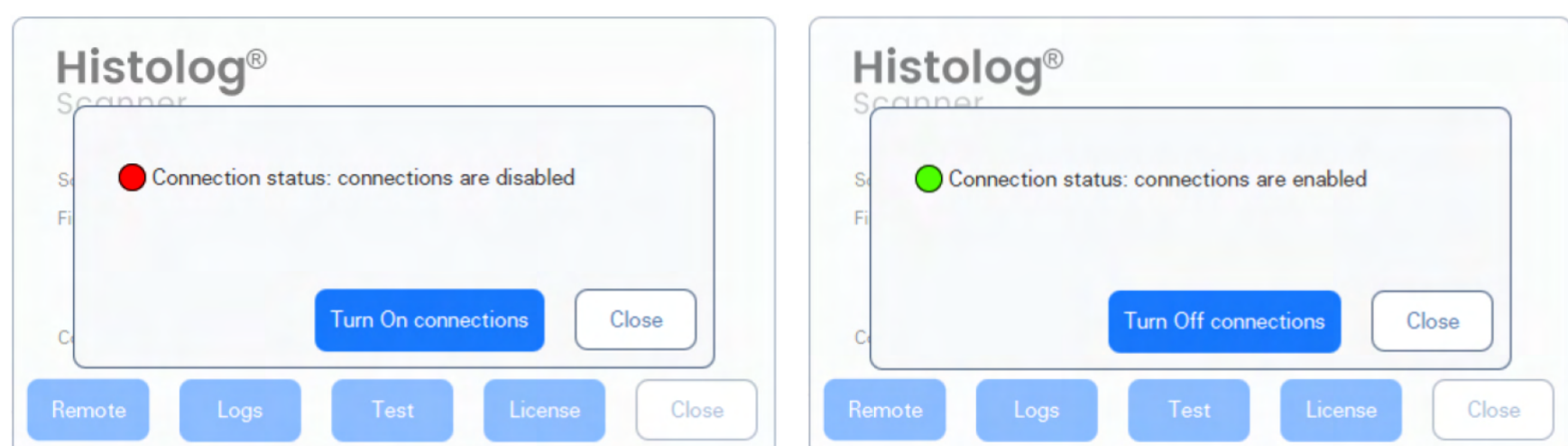
- Operating System: Microsoft Windows 10 or 11
- A cabled network connection
- At least Full HD monitor resolution

7.2. Enable/Disable Remote Connections

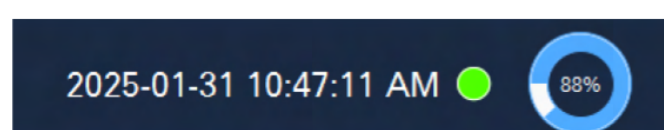
The use of Remote Collaboration is controlled by the Histolog[®] Scanner's Operator. After the scanner starts up the remote connections are disabled. After the start up at any time during the device runtime the Operator can enable remote connections to the scanner, as well as disable the previously enabled connections.

To enable remote connections:

1. Activate Histolog[®] Scanner service dialog window by tapping on the Histolog[®] Scanner logo (see B2.10 in section [6.3.5.2](#)).
2. Press the "Remote" button to display the current status of remote connections.
3. Press the "Turn On connections" button to enable remote connections to the scanner. This will allow remote users to connect to the scanner.
4. Close the service dialog window by pressing the "Close" button on the window.



When remote connections are enabled on a Histolog[®] Scanner the Software Application displays a green indicator at the bottom left corner of the screen.



To disable remote connections:

1. Display current status of remote connections either by pressing green indicator at the bottom left corner of the screen, or through Histolog[®] Scanner service dialog window by tapping on the Histolog[®] Scanner logo (see B2.10 in section [6.3.5.2](#)) and pressing the “Remote” button.
2. Press the “Turn Off connections” button to disable remote connections to the scanner. This will terminate all currently existing remote users’ connections to the scanner. New remote users’ connection will not be possible in this state of the Software Application.
3. Close the service dialog window by pressing the “Close” button on the window.

When remote connections are disabled on a Histolog[®] Scanner the Software Application does not display a green indicator at the bottom left corner of the screen.

7.3. Establish connection and start Remote Collaboration

7.3.1. Remote user: install and configure the Remote User Package

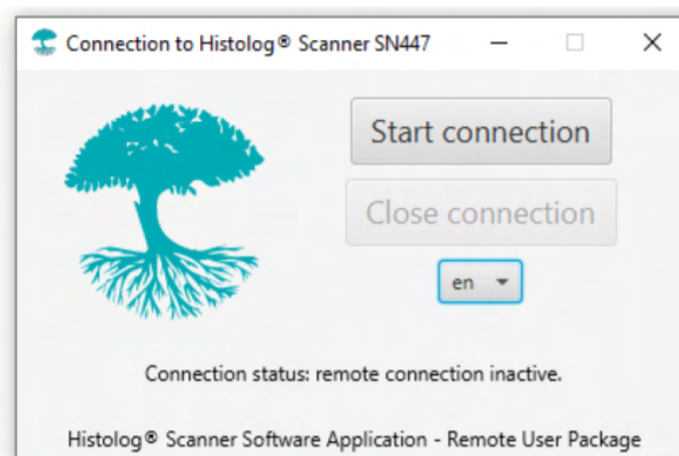
Installing the Remote User Package and configuring the network is automatically done when Starting a new Remote Collaboration if the remote user has OS administrator rights on the remote user’s computer. If not, an OS administrator must install and configure the network manually or to Start a new Remote Collaboration from the remote user’s computer with the administrator rights.

Once the installation and the configuration are done, a popup window will appear on the bottom right of the monitor, displaying the WireGuard VPN is activated.

NOTE The installation creates a **shortcut** on the Desktop of the remote user’s computer for the Remote User Package named “Histolog[®] Remote SNXXX” where SNXXX is the identifier of the Histolog[®] Scanner device on which the Remote Collaboration will be performed.

7.3.2. Remote user: connect to the Histolog[®] Scanner device

A remote user connects to the Histolog[®] Scanner device by executing the following steps:



1. Launch control panel for connection to the Histolog[®] Scanner.
2. Click the “Start connection” button to send an incoming connection request to the Histolog[®] Scanner’s Operator.

The connection to the Histolog[®] Scanner device will be established after approval of the incoming connection request by the Histolog[®] Scanner’s Operator. The Remote Collaboration work can be started as soon as the connection is established.

The remote user has a possibility to change the language of the texts displayed on the control panel, choosing between the supported languages.

7.3.3. Operator: approve incoming connection of a remote user

When remote connections are enabled on a Histolog[®] Scanner (green indicator is displayed at the bottom left corner of the screen), the Histolog[®] Scanner’s Operator receives incoming connection requests from remote users. An incoming connection request:

- informs the Operator about the remote user's identification;
- warns the Operator that approval of the request will allow the remote user to view the Histolog[®] Scanner's screen and to fully control the device functionalities.

Incoming Remote Connection request

A new incoming Remote Connection request was received:

- from the remote user **pathologist**,
- with e-mail address **pathologist@samantree.com**,
- from a computer with IP address **10.87.192.2**.

Approval of this Remote Connection will allow the remote user to view Histolog[®] Scanner screen and to fully control the device functionalities.

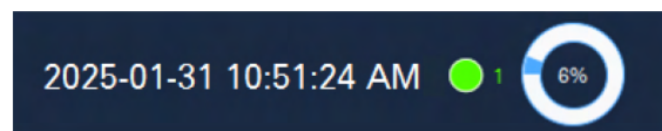
Press "Approve" to approve the Remote Connection or "Refuse" to refuse it.

Approve

Refuse

- Press the "Approve" button to approve an incoming connection request.
- Press the "Refuse" button to refuse an incoming connection request.

On approval of a connection request the connection with the corresponding remote user's computer will be established and the Remote Collaboration work can be started. Green indicator at the bottom left corner of the screen will start blinking and the number of connected remote users will be displayed next to the indicator.



7.3.4. Patients' and operator's data anonymization during Remote Collaboration

The Histolog[®] Scanner Software Application allows remote users to connect to a Histolog[®] Scanner device over the Internet. A remote user can be located in any place where the computer network allows for the Internet connection. To respect data privacy for the patients' and operator's data that are displayed on the Histolog[®] Scanner's screen, the Software Application anonymizes (hides) these data during the Remote Collaboration.

In some cases there is no reason to anonymize patients' and operator's data during Remote Collaboration. For example, in the case where a remote user is located in the same hospital and thus the sensitive data do not cross the hospital's boundaries during the remote user's connection to the scanner. For such cases the Histolog[®] Scanner can be configured to allow the Operator to authorize showing of the sensitive data during the Remote Collaboration.

Incoming Remote Connection request

A new incoming Remote Connection request was received:

- from the remote user **pathologist**,
- with e-mail address **pathologist@samantree.com**,
- from a computer with IP address **10.87.192.2**.

Approval of this Remote Connection will allow the remote user to view Histolog[®] Scanner screen and to fully control the device functionalities.

Press "Approve" to approve the Remote Connection or "Refuse" to refuse it.

☒ Show Patient's and Operator's data for this connection

Approve

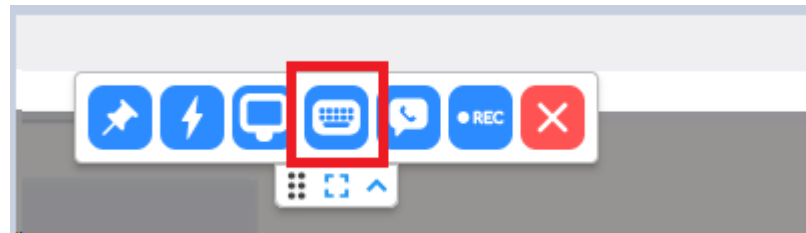
Refuse

To authorize showing of the sensitive data during the Remote Collaboration to a particular remote user check the corresponding checkbox before approving the user's remote connection request with the "Approve" button.

7.3.5. Customize keyboard layout

If the remote user's computer keyboard layout is different from the one used on the Histolog[®] Scanner device, a remote user can conveniently use the remote keyboard to enter text on the Histolog[®] Scanner by applying the corresponding configuration on the Remote Collaboration window.

When the remote connection is established, select the “*Translate mode beta*” option in the Remote Collaboration window menu shown on the following image:



Then, the remote computer's keyboard layout is applied for the text input.

If the remote user's computer keyboard layout is the same as the one used on the Histolog[®] Scanner device, then there is no need for this additional configuration.

7.3.6. Remote user navigation during Remote Collaboration

During the Remote Collaboration a remote user navigates the screen of the connected Histolog[®] Scanner device using the local computer's mouse (or touchpad) and keyboard.

- Use the “Ctrl” key to activate the mouse scroll wheel for zooming in and out in the Image Examiner.

7.4. Close Remote Collaboration

An existing Remote Collaboration session may be closed either by the Histolog[®] Scanner's Operator or by a remote user. To close the session:

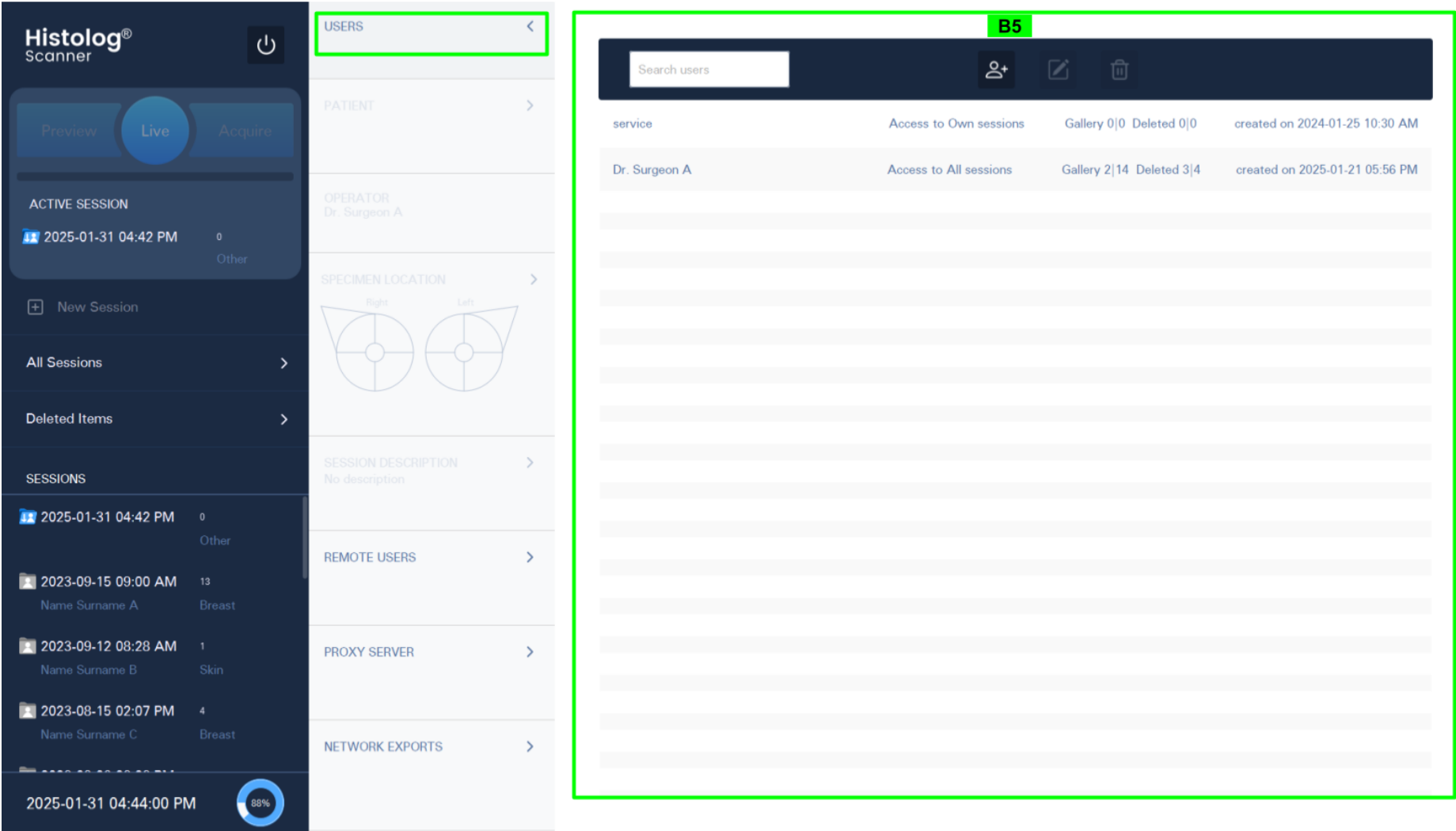
- As the Histolog[®] Scanner's Operator, disable remote connections (see section [7.2](#)). This will close remote connections for all the connected remote users.
- As a remote user, press the “Close connection” button on the control panel for connection to the Histolog[®] Scanner (see the image in section [7.3.2](#)). This will close the user's remote connection and close the control panel window.

8. Administration of Histolog[®] Scanner Software Application

In the Histolog[®] Scanner Software Application, the ‘admin’ user (introduced in section [5.3.1](#)) manages users' accounts, remote users and sessions with their images. These operations require the ‘admin’ user to be logged in to the application.

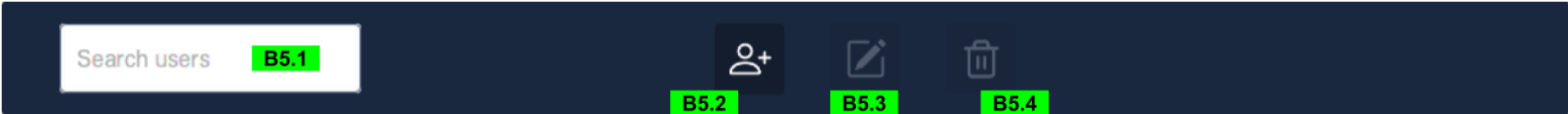
8.1. Manage user accounts

The ‘admin’ user can create, update and delete accounts for local users of the device (Histolog[®] Scanner's Operators). When logged in, user management is accessible via the “USERS” menu button. After tapping on the menu button, the user accounts management page (B5) is displayed showing the existing users list and graphical controls for the possible actions related to the users administration.



8.1.1. User accounts actions

The upper toolbar contains graphical controls for the following actions: search for users, create a new user account , edit an existing user account  and delete a user account .



B5.1. Search for users. The text field allows for filtering the listed users with the pattern entered as the input text. The Software Application searches for the pattern filled in among all the existing user names. For example, for the list displayed in the area B5 on the picture above, if the ‘admin’ user enters “Opera”, then the filtered list will contain “Operator 1” and “Operator 2”.

B5.2. Create a new user account. Tap on the “Create new user account” button  to display the user account creation window. The fields User Name and Password are mandatory, the first and last names are optional. Access Rights toggle can be used to change the new user’s access rights allowing either the access

Add user

User Name:

Operator 3

First name (optional):

Last Name (optional):

Password:

•

Access Rights:

Own sessions

Add user

Cancel

Password must have the length of at least 4 characters.

Edit user

User Name:

Operator 1

First name (optional):

Last Name (optional):

Password:

••••

Access Rights:

Own sessions

Update user

Cancel

only to own sessions, or the access to all existing sessions on the device. The password must contain at least 4 characters and must be alphanumeric.

If the entered password does not match the requirements, the message “Password must have the length of at least 4 characters.” is displayed below the “Add user” button. The ‘admin’ user must provide a password matching the rules defined above.

Finally, tap on the “Add user” button to create the new user account.

B5.3. Edit an existing user account. Tap on the “Edit user account” button  to display the user account edition window. The field User Name cannot be updated, only the Password, the First and Last names and the Access Rights toggle value are editable. The password must obey the same rules as those defined for the user account creation (B5.2).

Finally, tap on the “Update user” button to update the selected user account with the introduced changes.

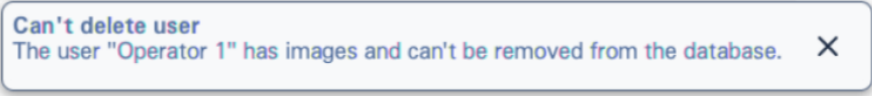
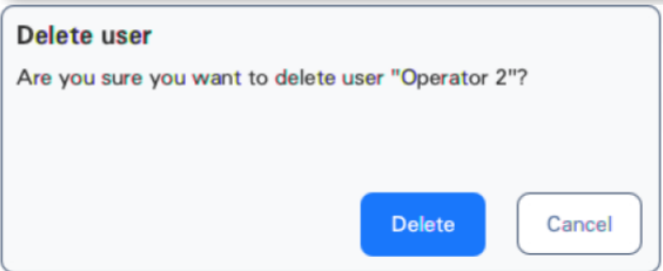
NOTE The “Edit an existing user account” button is disabled if no user is selected in the users list.

B5.4. Delete an existing user account. Tapping on the “Delete” button  will attempt to delete the selected user account. A confirmation popup will appear and ask the user to confirm the deletion.

NOTE The “Delete an existing user account” button is disabled if no user is selected.

NOTE An existing user account can be deleted only if no images are associated with it. To delete a user account with associated images, first delete permanently the associated images, then delete the account.

NOTE The ‘admin’ user cannot delete the ‘admin’ account and the ‘service’ account. The latter account is reserved for the device service purposes.



8.1.2. Users list

Each entry in the list of users contains the following information: user name (B5.5), access rights (B5.6), sessions and images owned by the account (B5.7) and the account creation date and time (B5.8).



B5.5. User names. User name is the identifier that a user must use to log in to the Histolog® Scanner Software Application. A user name is unique and cannot be edited.

The ‘admin’ user can filter the users (B5.1) by searching for a text pattern contained within the user names.

B5.6. Access rights. Access rights indicate if a user account has access only to own sessions or to all other users’ sessions on the device.

B5.7. Sessions and images counters. These are the counters that indicate the number of sessions and images in the Gallery (e.g. 1|2), and the number of deleted but recoverable sessions and images (e.g. 2|2) that belong to the user account.

B5.8. Creation date and time. These are the date and time when a user account was created.

8.2. Manage Remote Collaboration

For the Remote Collaboration functionality management the ‘admin’ user can configure connectivity to the proxy server and can manage remote users. After logging in, the Remote Collaboration management is available through two menu buttons: “REMOTE USERS” (B5.9) and “PROXY SERVER” (B5.10).

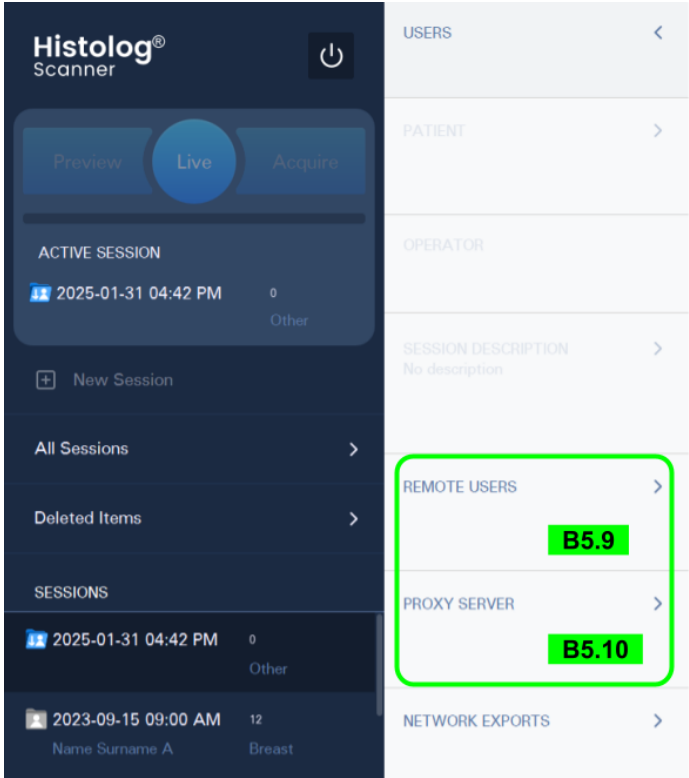
NOTE In a local network, the Remote Collaboration can also be configured without a proxy server. In such a case the button B5.10 is disabled and the functionality described in section 8.2.1 is not available.

B5.9. REMOTE USERS. The REMOTE USERS section allows the ‘admin’ user to manage remote users (create, update and delete remote users), as well as download or send by e-mail the remote user packages.

NOTE For the Remote Collaboration that uses a proxy server, the proxy server must be configured and the connection between the proxy server and the Histolog® Scanner Software Application must be activated to be able to add remote users.

NOTE The remote user package is the software that a remote user must install on a remote Microsoft Windows 10 or 11 based computer to be able to control the Histolog® Scanner device from the remote computer.

B5.10. PROXY SERVER. Tap this button to open the proxy server configuration interface. From this interface configure and test the connection with the proxy server.



8.2.1. Configure the proxy server

NOTE The proxy server configuration requires preliminary configuration of the VPN security on the Histolog® Scanner device. The proxy server configuration must be performed with assistance of SamanTree Medical personnel. UNAUTHORIZED OR INCORRECT CHANGES TO PROXY SERVER SETTINGS MAY RESULT IN LOSS OR DETERIORATION OF FUNCTION.

The proxy server configuration requires some information that a hospital’s IT department must provide, in particular:

B5.11. Server public IP address. Fill in the input text field with the IPv4 address of the proxy server. It must be provided by the IT department.

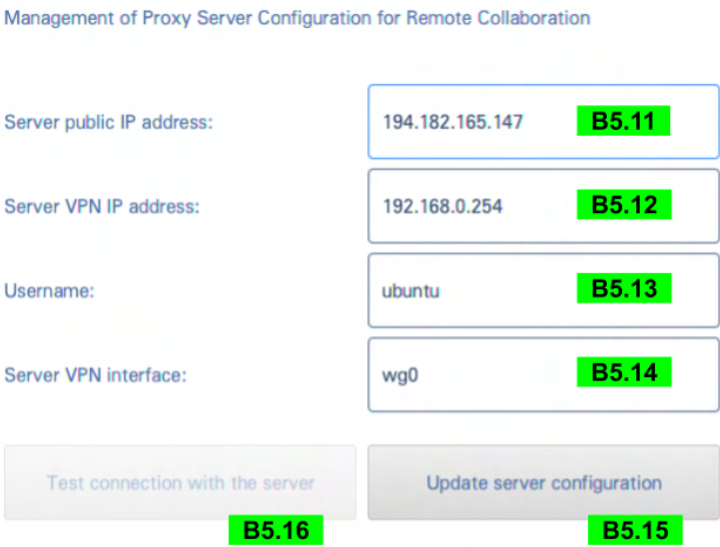
B5.12. Server VPN IP address. Fill in the input text field with the WireGuard IPv4 address of the proxy server. It must be provided by the IT department.

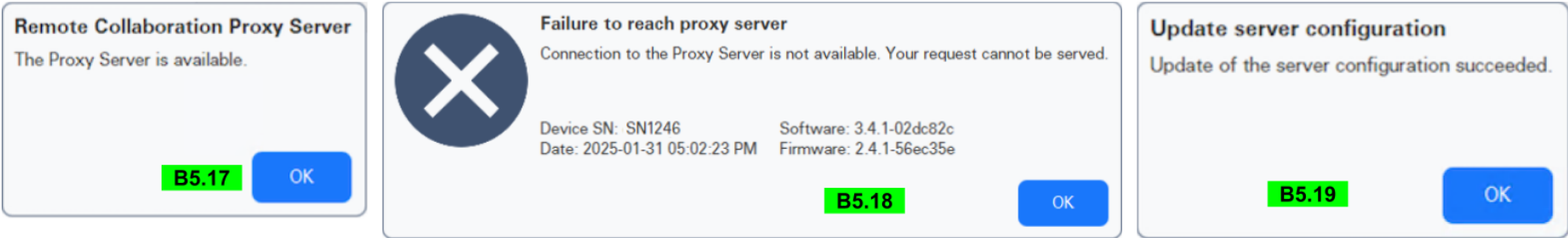
B5.13. Username. Fill in the username configured in the proxy server. This username must be provided by the IT department.

B5.14. Server VPN interface. Fill in the identifier of the proxy server interface that the Histolog® Scanner Software application should connect to. This identifier must be provided by the IT department.

Once the four mandatory fields (B5.11, B5.12, B5.13, B5.14) are filled in, tap the “Update server configuration” button (B5.15) to apply the new configuration. A confirmation popup (B5.19) will be displayed.

The ‘admin’ can test connectivity by activating remote connections (see section 7.2) and tapping the “Test connection with the server” button (B5.16). If the connection succeeded, a confirmation popup (B5.17) is displayed; if the connection failed, an error popup (B5.18) is displayed. The connection with the proxy server can

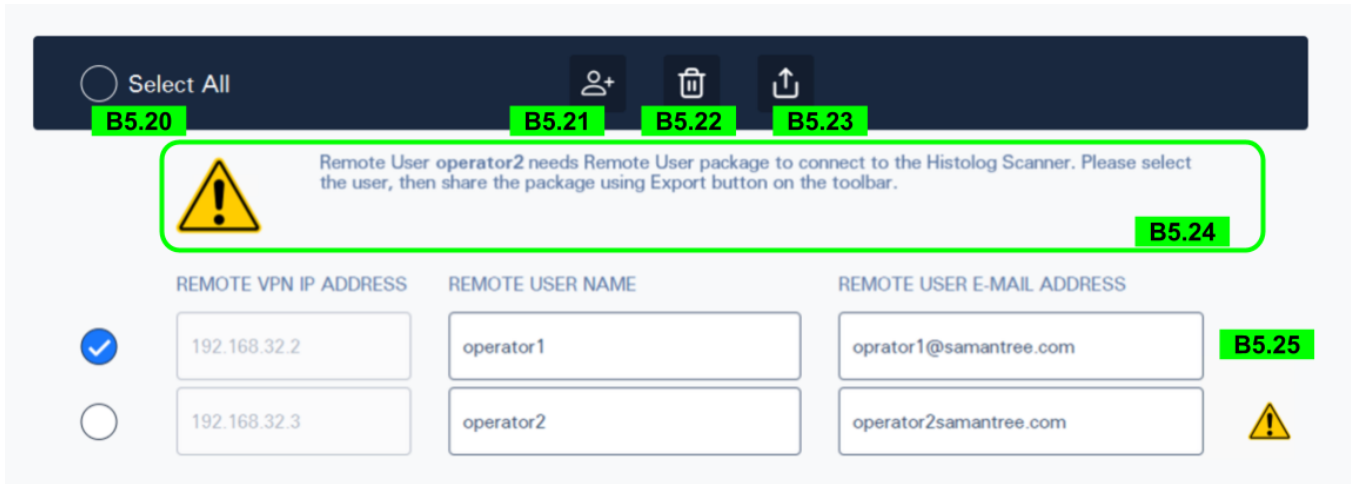




also be tested by regular users of the device at any time by using the “Test” button in Histolog® Scanner service dialog window (B2.10).

8.2.2. Configure remote users

After the Remote Collaboration connection is active, whether established through the server via VPN or directly over the local network, the ‘admin’ user can add one or several remote users.



Tapping the “REMOTE USERS” menu button displays the remote users management interface. The upper toolbar contains graphical controls that allow the ‘admin’ to select all remote users, to create a new remote user , to delete a remote user , and to export the remote user package(s) . Below the toolbar, the ‘admin’ user can manage the remote users’ identification data.

B5.20. Select All. Selecting all users allows the ‘admin’ user to execute the same action for all the existing remote users together, in particular, deleting the users and exporting the remote packages for all selected users.

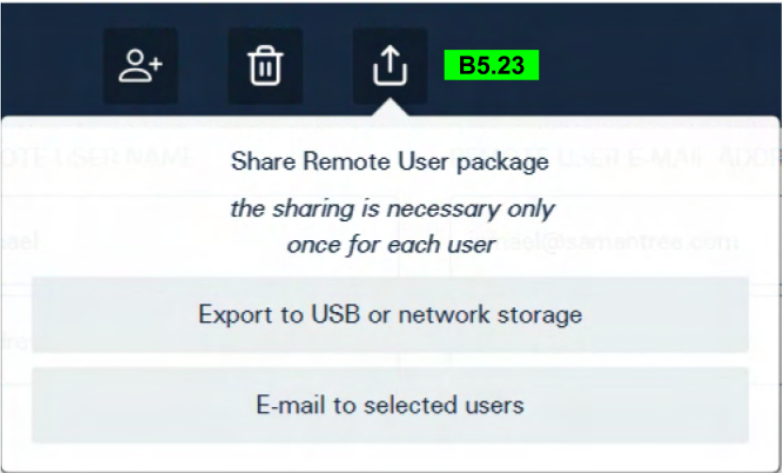
NOTE Unselecting all remote users disables the delete and the export buttons.

NOTE When exporting the remote package to multiple remote users, the ‘admin’ user can select only one method (a USB key, or a network-connected shared drive, or e-mail), for all selected users.

B5.21. Add remote user. Tap on this button to add a new remote user. It will add a new empty line in the remote users list. The ‘admin’ user must fill in the remote user name. The e-mail address is optional, but it is necessary for sharing the remote user package by e-mail. The e-mail address field is only available when Remote Collaboration is configured to be used with a proxy server. If Remote Collaboration is configured for use in a local network without a proxy server, this field is disabled.

B5.22. Delete a remote user. Select one or several remote users from the list, then tap on the “Delete remote users” button. The selected remote users will be deleted and will not have remote access to the Histolog® Scanner device.

B5.23 and B5.24. Export remote user package. Tap on the button B5.23 and select an option to export the remote user package: either by e-mail, or through a USB storage plugged into the Histolog® Scanner device, or through a network-connected shared drive. The e-mail export method is only available when Remote Collaboration is configured to be



used with a proxy server. If Remote Collaboration is configured for use in a local network without a proxy server, this export method is not available.

The warning message B5.24. is displayed when a remote user package has not been generated for at least one remote user. The warning logo(s) is(are) also displayed next to the remote user(s) involved.

NOTE The export by e-mail option is visible only if the e-mail address field is filled in for all selected remote users.

NOTE If the Remote Collaboration is configured without a proxy server, then for a remote user package to work, the IP address of the Histolog Scanner in the local network must not change after the generation of that remote user package. In case if the IP address changes, the previously generated remote user package will no longer be able to connect to the Histolog[®] Scanner and all the remote user packages that were generated with a previous IP address become invalid and need to be generated and shared with the corresponding remote users once again.

NOTE The Remote Collaboration without a proxy server can also be configured within an existing VPN IP address space or in other special cases of local networks. These special cases can only be configured on the Histolog[®] Scanner by SamanTree Medical authorised personnel.

B5.25. Remote users list. The remote users list contains all the remote users who can have remote access to the Histolog[®] Scanner device. For each remote user in the list the 'admin' must add a unique user name and can add an optional e-mail address. The e-mail address is required to send the remote user package by e-mail.

8.3. Manage Gallery

The 'admin' user can view all sessions belonging to all users in the Histolog[®] Scanner Software Application. The 'admin' can export and permanently delete some or all of the existing sessions and images in order to free some space on the device. But the admin cannot modify the sessions, images, their metadata and annotations. See the following sections for more details:

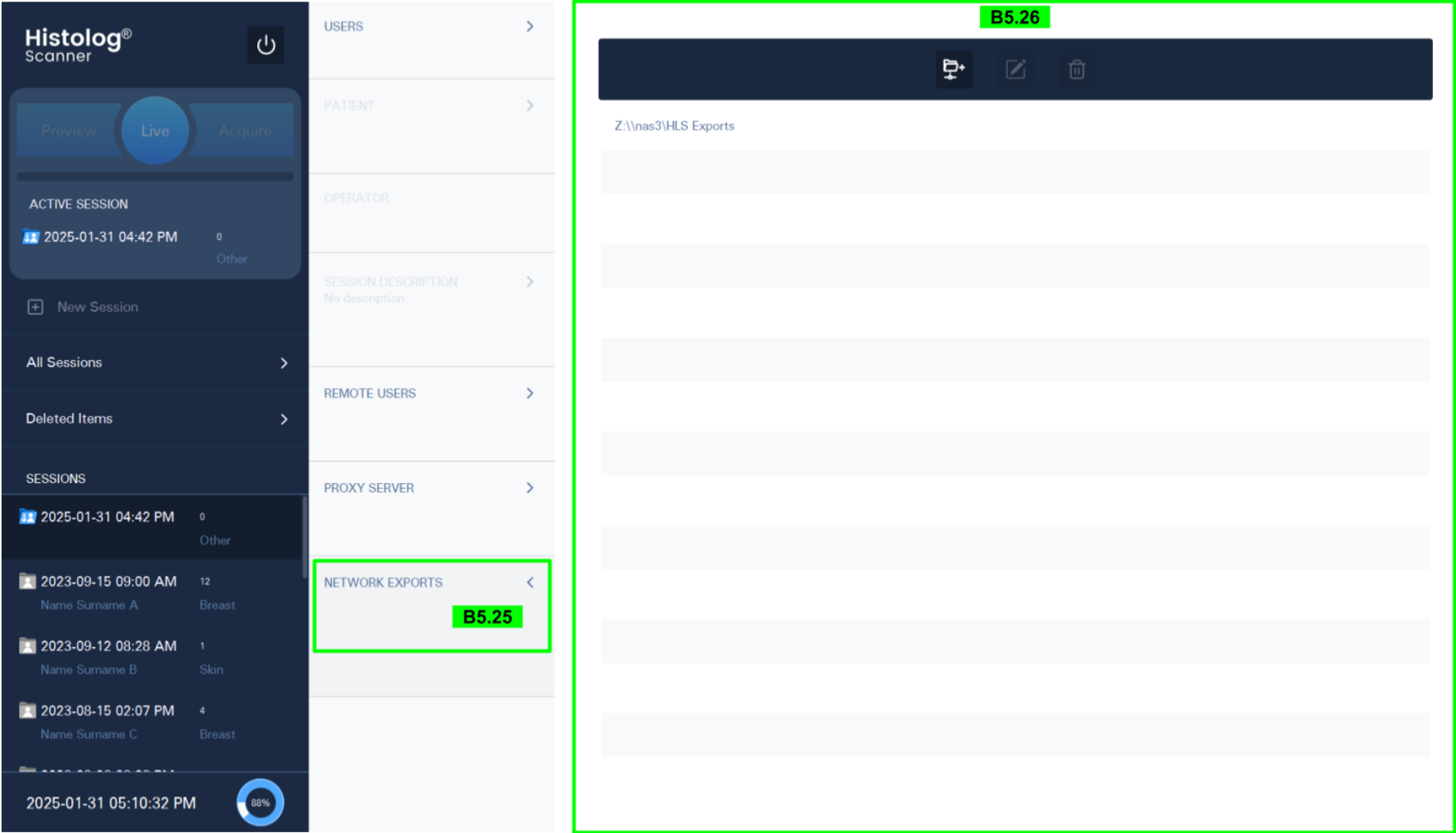
- [6.4.15. Export Gallery content to an external storage device](#)
- [6.4.16. Delete Gallery content](#)
- [6.4.17. Restore deleted Gallery content](#)
- [6.4.18. Permanently delete Gallery content](#)

8.4. Manage Network Exports

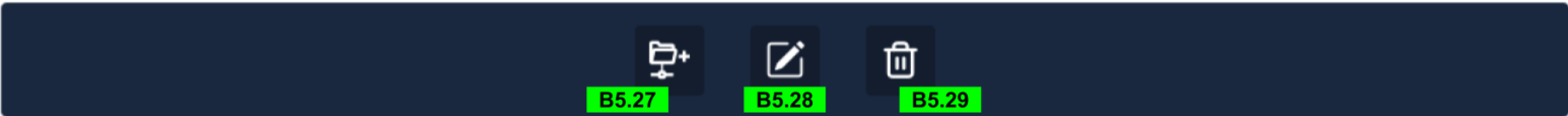
If the Histolog[®] Scanner device is connected to a network, its users can export images and their associated metadata to the network destinations.

8.4.1. Manage connected shared drives

The 'admin' user can create, update and delete connections to shared network drives that can be used as export destinations by users of the device. When logged in, shared drives management is accessible via the "NETWORK EXPORTS" menu button (B5.25). After tapping on the menu button, the shared drives management page (B5.26) is displayed showing the existing connected shared drives list and graphical controls for the possible actions related to the shared drives management.



The upper toolbar contains graphical controls for the following actions: create a new connection to a shared network drive , edit an existing connection  and delete an existing connection .



B5.27. Create a new connection to a shared network drive. Tap on the “Create new connection to shared drive” button  to display the connection creation window. All the fields are mandatory to enter. Either the server name or the server IP address can be used to connect to the server where the shared drive is located. User credentials to access the shared drive are mandatory to enter. The Histolog® Scanner does not accept connections to nonprotected shared drives due to the data privacy constraints for the exported data.

After completing all fields in the window, tap on the “Test connection” button to test if a connection from the Histolog® Scanner to the shared network drive can be established. If the connection succeeds, tap on the “Add share” button to create the connection to the new shared drive on the device.

Add network share for exports

Server name or IP address

nas4

Share name

Urology Exports

User name

network_user_1

Password

.....

Test connection

Add share

Close

Edit network share for exports

Drive letter

Z:

Server name or IP address

nas3

Share name

HLS Exports

User name

Password

Test connection

Add share

Close

B5.28. Edit an existing connection. Tap on the “Edit an existing connection” button  to display the connection edition window. The field “Drive letter” cannot be updated, only the “Server name or IP address”, the “Share name” and the user credentials are editable. As in the case of the connection creation, user credentials are mandatory.

Tap on the “Test connection” button to test if a connection from the Histolog® Scanner to the edited shared network drive can be established. If the connection succeeds, tap on the “Add share” button to create the connection to the newly edited shared drive on the device.

NOTE The “Edit an existing connection” button is disabled if no connection is selected in the connections list.

B5.29. Delete an existing connection. Tapping on the “Delete” button  will attempt to delete the selected connection. A confirmation popup will appear and ask the user to confirm the deletion.

NOTE The “Delete an existing connection” button is disabled if no connection is selected.

Delete connection to shared drive

Are you sure to permanently delete the availability of Z:\nas3\HLS Exports shared drive?
This operation cannot be undone.

OK

Cancel

9. Maintenance

9.1. Update of Histolog[®] Scanner Software Application

Update of Histolog[®] Scanner Software Application may be installed only by SamanTree Medical authorized technical personnel.

10. Troubleshooting

Issue	Action to take
Nothing is displayed on the screen	Verify that the monitor's power indicator light, a circular green light located at the right below the active display area, is illuminated. If not, switch ON the monitor by pressing the illuminated power button located at the right below the active display area, next to the power indicator light. Verify that Histolog® Scanner is connected to the mains power (section 6.1.1).
Acquisition stops before reaching 100%	Cancel and relaunch Acquisition. If the issue persists, turn OFF the device, wait 10 seconds, and turn it back ON (as per use instructions in section 6.2.1).
Histolog® Scanner Application is not responsive	Turn OFF the device, wait 10 seconds, and turn it back ON (as per use instructions in section 6.2.1).
Device cannot acquire images	Turn OFF the device, wait 10 seconds, and turn it back ON (as per use instructions in section 6.2.1).
Poor quality of images	Cause: Tissue specimen has moved during acquisition Solution: Use Specimen Stabilization Monitoring tool, wait for tissue to stabilize and try again. If the tissue does not stabilize by itself, use forceps to hold the specimen in the desired position.

If the problem cannot be corrected, stop using the device. Shut down and prepare for storage as per section [6.2](#). Contact SamanTree Medical for technical support.