

Table 6.1

Overlap	One image is refreshed.
Sequential	All images displayed are refreshed.

Enlarging images

You can enlarge the image data displayed in the image display area of the main screen.

1. Click the [Zoom] button (see Figure 6.24). The image being displayed in the image display area will be enlarged.

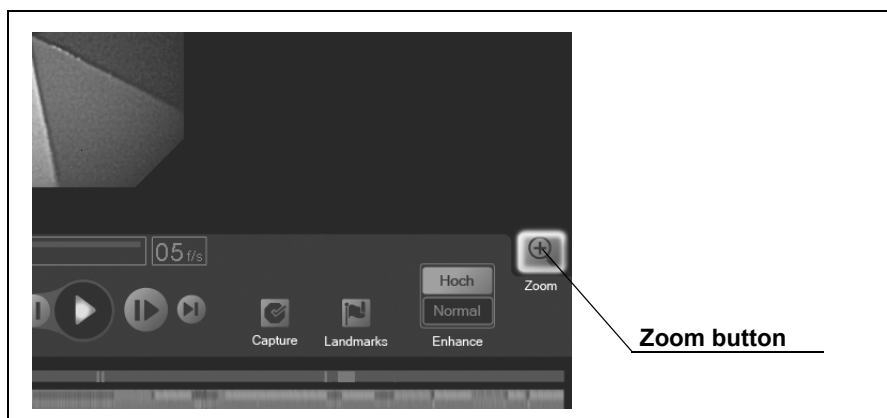


Figure 6.24

NOTE

- When you enlarge an image, the [Zoom] button is changed to the original size mode (see Figure 6.25). Click the [Zoom] button again to restore the image to its original size.

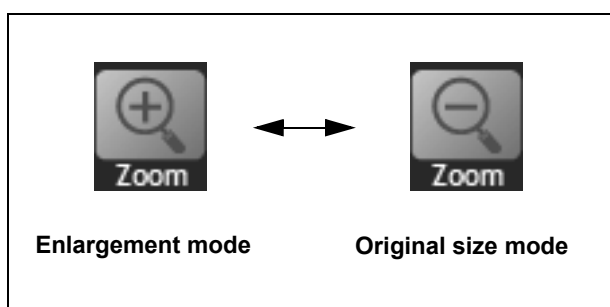


Figure 6.25

- Magnification varies in the image view mode (see Table 6.2).

Table 6.2

Image view mode		Magnification
1 Display mode		x 2
2 Display mode		x 1.5
4 Display mode		– (not available)

Structure enhancement

Use the [Enhance] buttons to emphasize the patterns on the surface of the mucosa (see Figure 6.26).

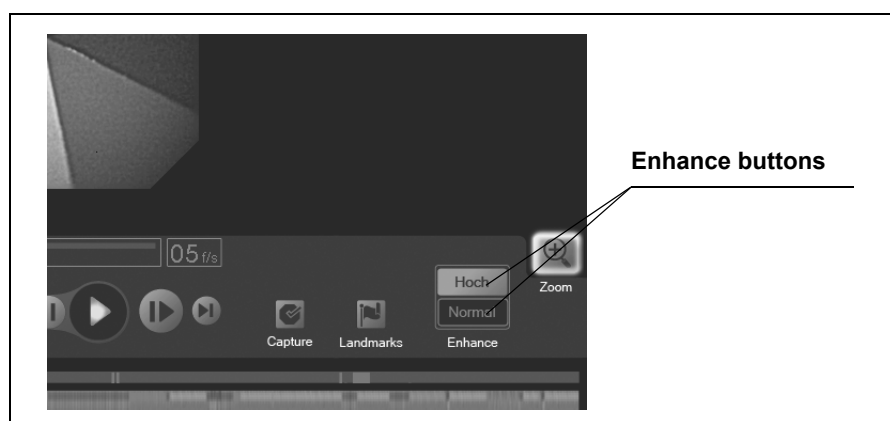


Figure 6.26

NOTE

The structure enhancement level can be switched between “Normal” and “High” (see Table 6.3).

Table 6.3

Enhancement level	Detail
Normal	The image is displayed without structure enhancement applied.
High	The image is displayed with structure enhancement applied.

Antenna display

The antenna display identifies the antenna with the best signal reception.

CAUTION

The antenna information is for reference only. Do not depend on this information to determine the position of the capsule endoscope.

1. Click the [Antenna] button in the antenna display section (see Figure 6.27).
The antenna display panel is displayed.

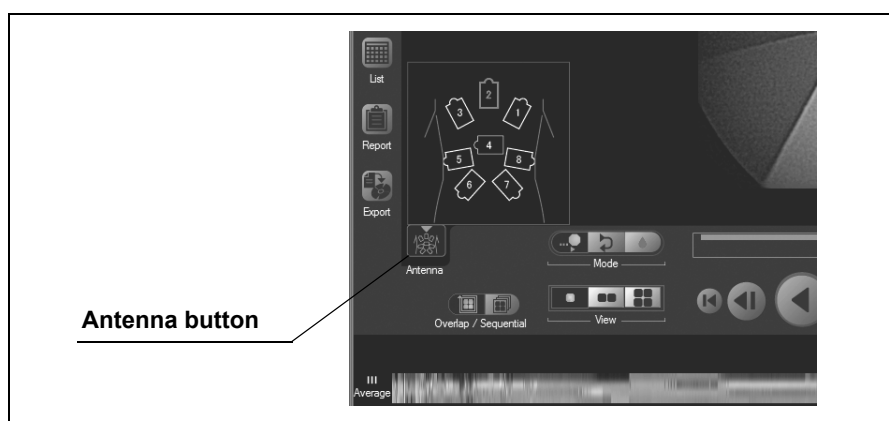


Figure 6.27

NOTE

Click the [Antenna] button again to hide the antenna display panel.

Creating thumbnails

Clicking the [Capture] button while the playback of image data is paused will create and display thumbnails of the image data in the thumbnail view area (see Figure 6.28).

To create thumbnails, double click on the image display area.

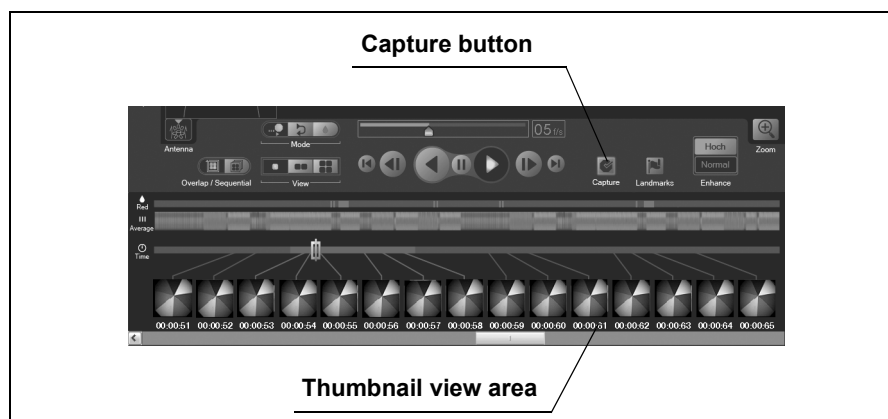


Figure 6.28

NOTE

When you click the [Capture] button during the playback of image data, a thumbnail will be created for the image being displayed at that moment, and the playback of image data will be paused.

Removing thumbnails

1. On the thumbnail view area, select the thumbnail you wish to remove.
2. Right-click on the selected thumbnail to display the context menu (see Figure 6.29).



Figure 6.29

3. Select "Remove" from the context menu to delete the selected thumbnail.

NOTE

- You can also press the "Delete" key on the keyboard to delete the selected thumbnail.
- If the thumbnail included in the reporting group is removed, one of the below messages is displayed.
 - The selected thumbnails are added to a report. If you delete these thumbnails, they will be removed from a report.
 - If you delete the selected thumbnails, the comments added to the group which contains these thumbnails will be deleted.
- If no thumbnail has been created, pressing the land mark will create a new thumbnail.

Setting features

You can set a featured region on the time bar to identify the range of images (small bowel area) to focus on.

1. Click and select a thumbnail to set a feature.
2. Click the [Landmarks] button on the thumbnail and select "Landmarks" from the context menu (see Figure 6.30).

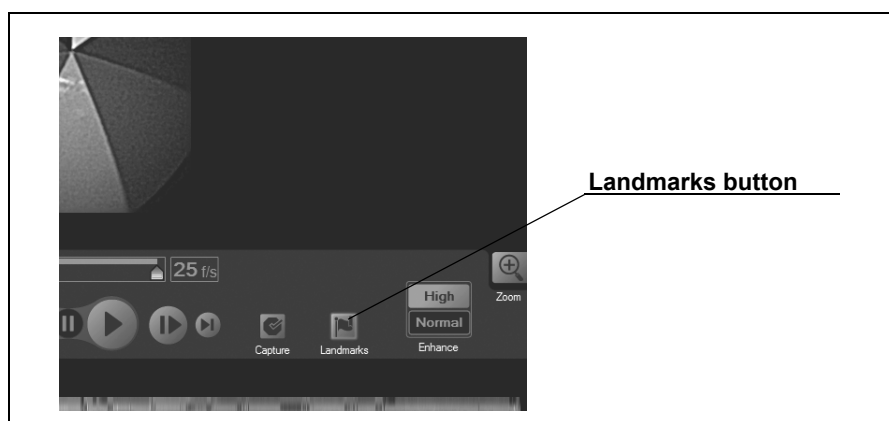


Figure 6.30

3. The feature setting screen is displayed (see Figure 6.31).

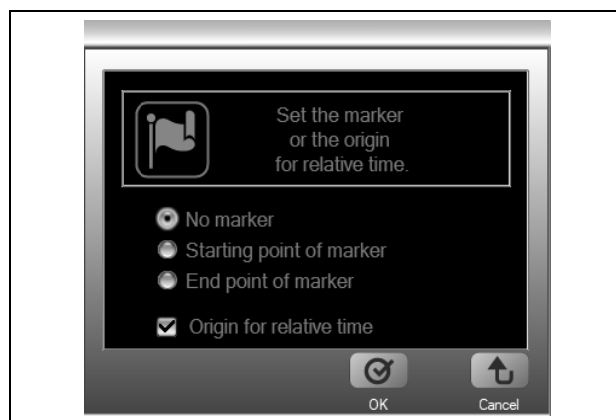


Figure 6.31

Table 6.4

No marker	No marker is set for the images.
Starting point of marker	Sets the selected thumbnail as the first image of the marker area.
End point of marker	Sets the selected thumbnail as the last image of the marker area.
Origin for relative time	Sets the selected thumbnail as the origin of a relative time scale.

4. Select “No marker”, “Starting point of marker”, or “End point of marker” to set the marker area. Also set the origin for the relative time.

NOTE

- Only one thumbnail can be used as the starting point of marker, and as the end point of marker.
- To set the selected thumbnail as origin of a relative time scale, check the checkbox for “Relative time”.

5. Click the [OK] button. The feature interval is now set.

NOTE

- If you right-click on the thumbnail, the context menu which contains the items in the Table 6.4 appears.
You can set features by selecting one of the context menu.
- Click [Cancel] to discard the settings and exit the feature setting screen.
- The configured feature interval is shown in a different color on the time bar.
- When only the “Start of feature interval” is specified, the last image of the data set becomes the “End of feature interval”.
- When only the “End of feature interval” is specified, the first image of the data set becomes the “Start of feature interval”.

Time bar

The time bar indicates the position of the currently displayed image relative to the overall timeframe (see Figure 6.32).

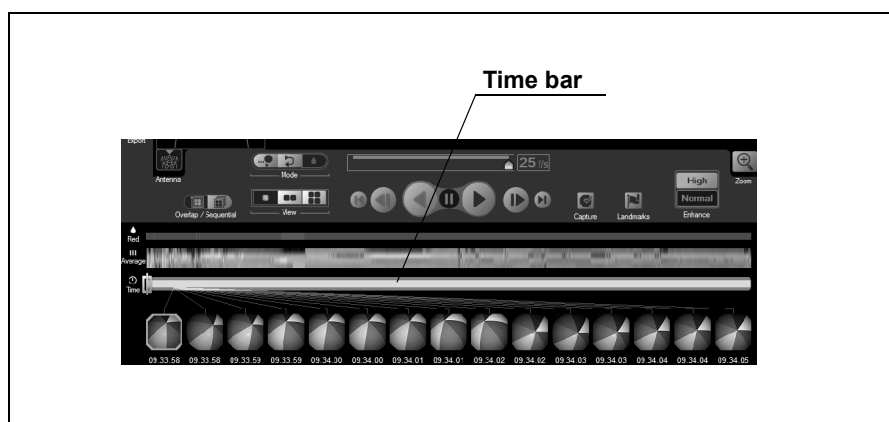


Figure 6.32

The thumbnails are connected with a line to a position on the time bar that corresponds to the time at which they were captured.

NOTE

- When you drag the indicator on the time bar to the left or the right, the image data being displayed in the image area is updated accordingly.
- The time bar becomes interrupted when the recorder unit is turned OFF or when signals are not being received.

- When you click on the time bar, the indicator moves to the clicked position, and the image area is updated to display the corresponding image.

Red color detection bar

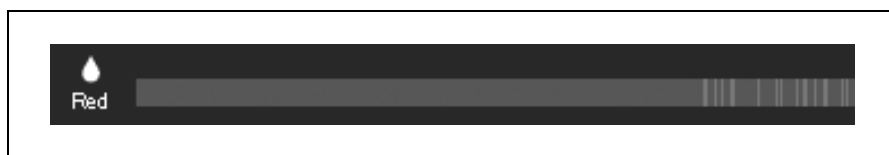


Figure 6.33

The red line on the red color detection bar indicates the position of red-color detected image data.

6.4 Generating reports

Preparing to generate a report

○ Report preparation screen

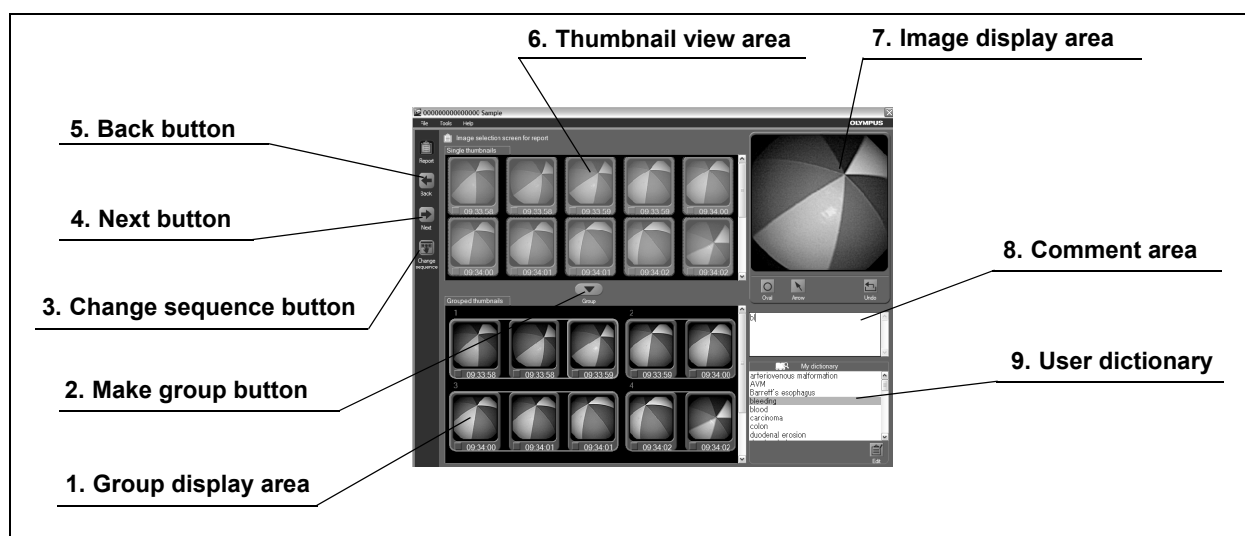


Figure 6.34

- 1. Group display area**
Displays images as groups.
- 2. Make group button**
Groups images.
- 3. Change sequence button**
Displays the group edit screen for changing the group ordering.
- 4. Next button**
Displays the report generation screen.
- 5. Back button**
Returns to the main screen.
- 6. Thumbnail view area**
Displays thumbnails to be selected as members of a group.
- 7. Image display area**
Displays thumbnails selected in the thumbnail view area or the group display area.
- 8. Comment area**
Allows attaching comments to a group.

9. User dictionary

Used when entering comments. As you type into the comment area, terms starting with the characters you have entered will be searched for and displayed.

○ Grouping images

Only the images that have been assigned to a group can be included in a report. You can associate a comment to each group.

1. Click the [Report] button on the main screen (see Figure 6.35). The report preparation screen is displayed.

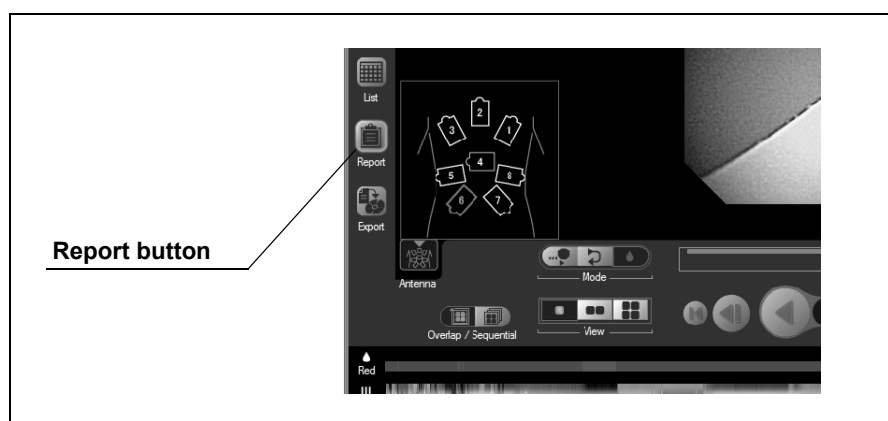


Figure 6.35

2. From the thumbnail view area, check the checkbox under the thumbnail you wish to include in the reporting group (see Figure 6.36).

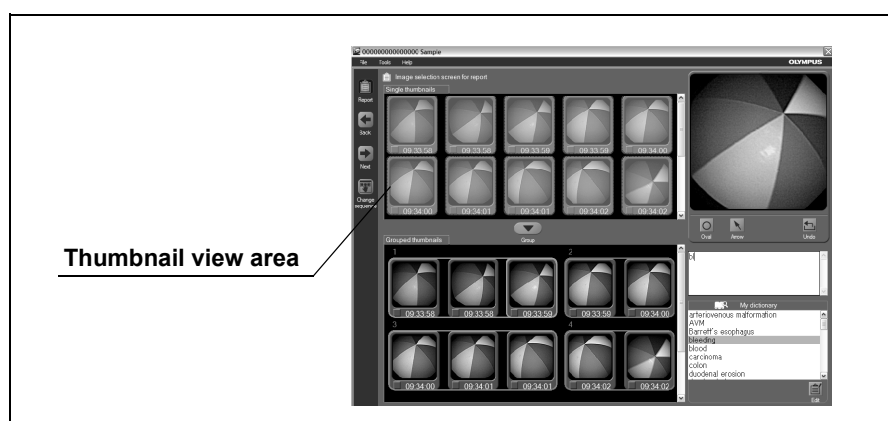


Figure 6.36

NOTE

To select multiple images, check the checkboxes under the thumbnails (see Figure 6.37).

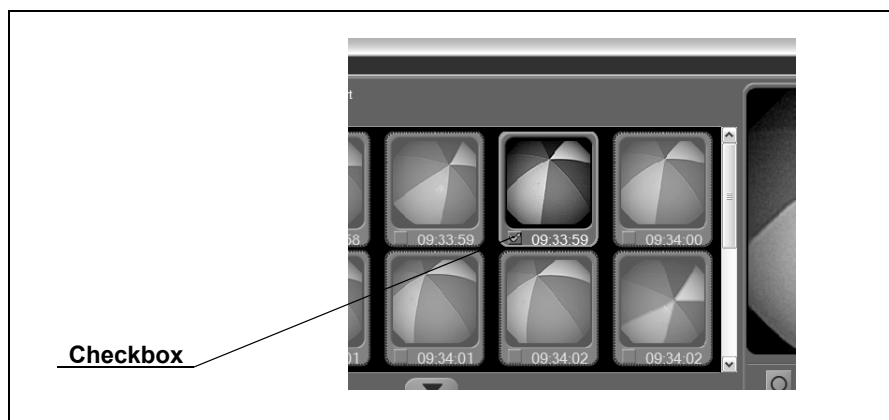


Figure 6.37

3. Click the [Make group] button (see Figure 6.38). Selected images are displayed in the group display area and a group is created.

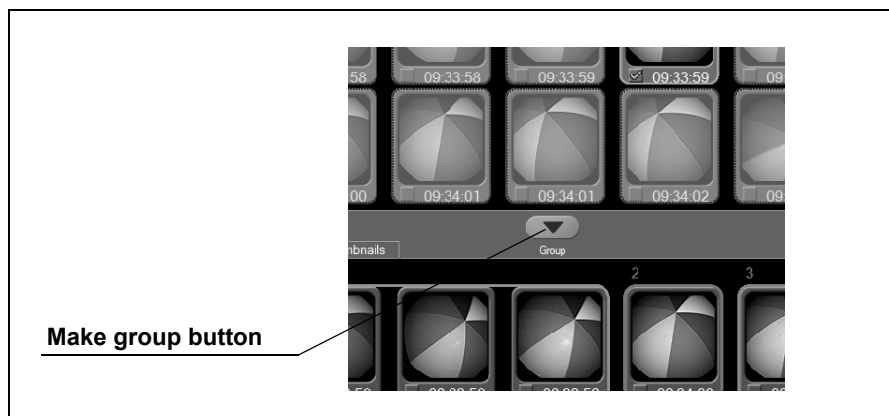


Figure 6.38

NOTE

Images that are already grouped will be greyed out in the thumbnail view area.

○ Adding images to an existing group

To add images to an existing group, drag and drop the thumbnails from the thumbnail view area onto the destination group.

1. In the thumbnail view area, select the thumbnails you wish to add to the group.

NOTE

To select multiple images, check the checkboxes under the thumbnails.

2. Drag the selected thumbnails onto the destination group (see Figure 6.39). The selected images are added to the group.



Figure 6.39

○ Removing images from an existing group

To remove unwanted images from a group, drag and drop the thumbnails from the group onto the thumbnail view area.

1. In the group display area, select the thumbnails you wish to remove from the group.

NOTE

To select multiple images, check the checkboxes under the thumbnails.

2. Drag the selected thumbnails onto the thumbnail view area. The selected images are removed from the group.

NOTE

In the thumbnail view area, ungrouped images will no longer be greyed out.

○ Moving images from one group to another

To move images from one group to another, drag and drop the thumbnails between the groups.

1. In the thumbnail view area, select the thumbnails you wish to transfer.

NOTE

- To select multiple images, check the checkboxes under the thumbnails.
- You cannot select thumbnails from multiple groups.

2. Drag the selected thumbnails onto the destination group (see Figure 6.40).
The selected images are transferred.



Figure 6.40

○ Drawing ovals on observation images

You can draw ovals on images to indicate areas of interest.

1. Click the [Oval] button on the image display area (see Figure 6.41).

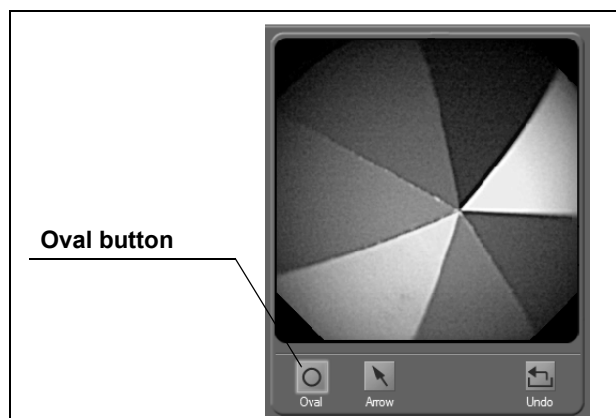


Figure 6.41

NOTE

The image display area displays the image for the thumbnail selected in the thumbnail view area or the group display area.

2. Click & drag on the image in the image display area to draw an oval (see Figure 6.42).

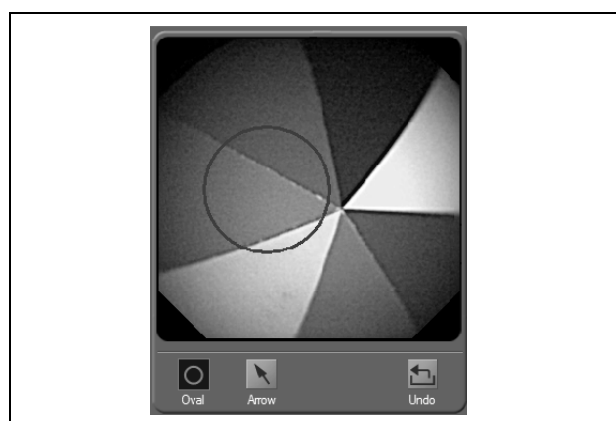


Figure 6.42

NOTE

- The oval will be centered around the point where the mouse was clicked.
- Release the mouse button to complete the oval.

- An oval that extends beyond the limits of the image display area will not be shown.

3. To undo the oval(s) you have drawn, click the [Undo] button.

NOTE

To delete an oval, select the oval and press the [Delete] key on the keyboard.

○ Drawing arrows on observation images

You can draw arrows on images to point out areas of interest.

1. Click the [Arrow] button on the image display area (see Figure 6.43).

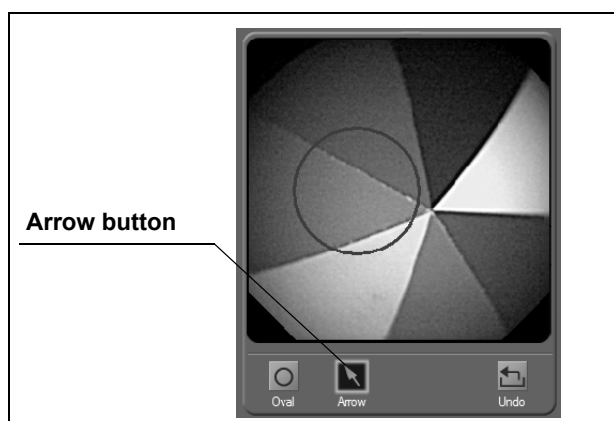


Figure 6.43

NOTE

The image display area displays the image for the thumbnail selected in the thumbnail view area or the group display area.

2. Click and drag on the image in the image display area to draw an arrow (see Figure 6.44).

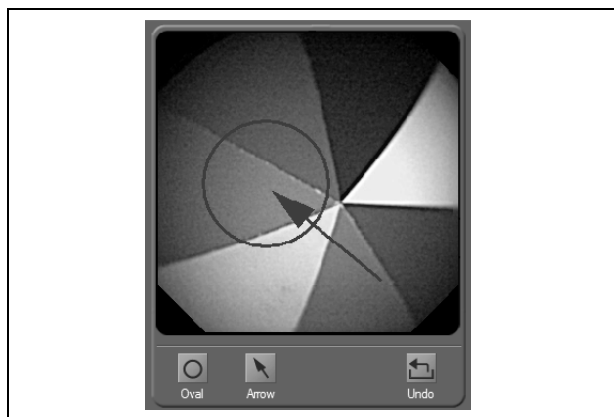


Figure 6.44

NOTE

- The arrow will be drawn from the point where the mouse was clicked.
- Release the mouse button to complete the arrow.
- An arrow that extends beyond the limits of the image display area will not be shown.

3. To undo the arrow(s) you have drawn, click the [Undo] button.

NOTE

To delete an arrow, select the arrow and press the [Delete] key on the keyboard.

○ Entering comments

A comment can be attached to each group. Input your comment using the keyboard or the user dictionary.

1. On the report preparation screen, type in your comment into the comment area.
2. Words that start with the entered character string are displayed in the candidate display area.

NOTE

- A candidate is displayed when a character is entered following a space.

- As you type into the comment area, terms starting with the characters you have entered will be searched for and displayed in the user dictionary area. To enter a term from the dictionary, select the term and press the [Enter] key on the keyboard.
3. Use the up/down arrow keys on the keyboard to select the word you wish to enter from the candidate display area.
 4. Press the [Enter] key on the keyboard to enter the currently selected word into the comment entry box.

NOTE

- You can also click on a word in the candidate display area to enter it into the comment box.
- To change the language when entering comments, right-click on the comment area and select the language.

○ Editing the user dictionary

Words that are frequently used in reports can be registered in the user dictionary.

1. Click the [Edit] button on the report preparation screen. The user dictionary edit screen is displayed.
2. To add a word or phrase to the user dictionary, type the text into the text box on the user dictionary edit screen, and click the [Add] button.
3. To remove a word or phrase from the user dictionary, select a registered word or phrase from the user dictionary, and click the [Remove] button.



Figure 6.45

○ Sorting groups

1. Click the [Change sequence] button on the report preparation screen (see Figure 6.46). The group edit screen is displayed.

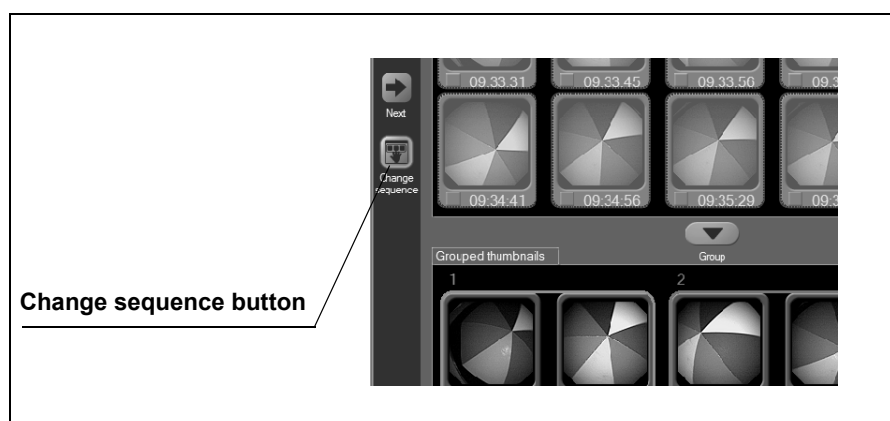


Figure 6.46

2. Select the group you wish to reorder.
3. Drag and drop the selected group to achieve the desired ordering of groups (see Figure 6.47). The groups are rearranged.

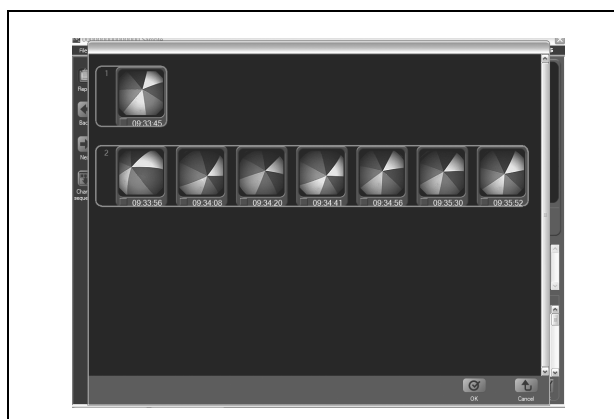


Figure 6.47

4. Click the [OK] button. The change is applied, and the report preparation screen will be displayed. Click the [Cancel] button to discard the changes and return to the report preparation screen.

Generating reports

○ Report generation screen

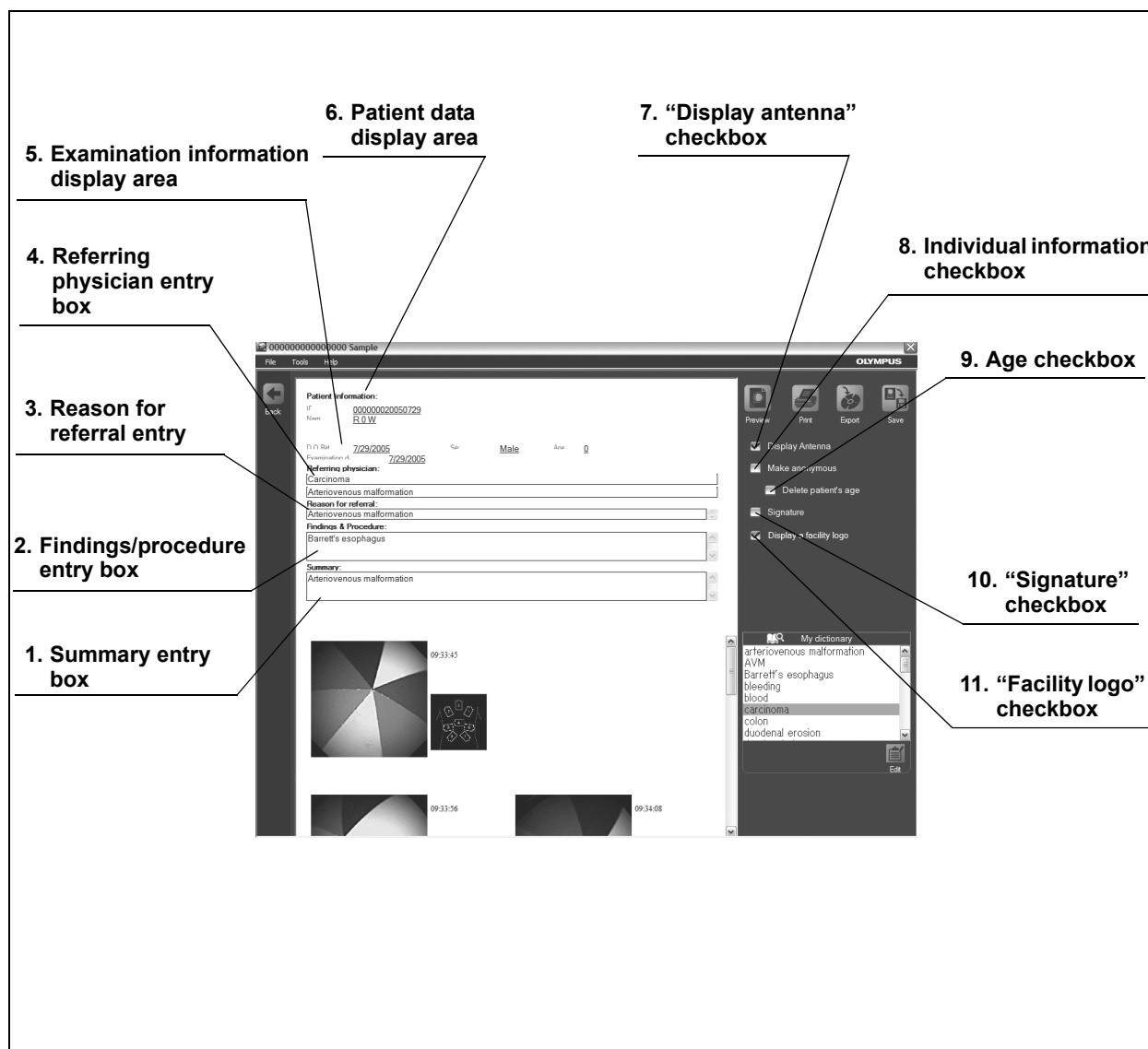


Figure 6.48

1. Summary entry box

Used to enter a summary.

2. Findings/procedure entry box

Used to enter findings and procedures.

3. Reason for referral entry box

Used to enter reasons for referral.

4. Referring physician entry box

Use to enter the name of the referring physician.

5. Examination information display area

Displays examination information that has already been set.

6. Patient data display area

Displays patient data that has already been entered.

7. “Display antenna” checkbox

Check to display antenna information on the report.

8. Individual information checkbox

Check to generate a report that does not contain information about the individual.

CAUTION

To remove individual information (such as a facial portrait) from the image data, you will need to set the hiding feature. For more information, refer to “Hiding images” on page 216.

9. Age checkbox

Check to generate a report that does not include the patient's age.

10. “Signature” checkbox

Check to generate a report with a signature block.

11. “Facility logo” checkbox

Check to display a facility logo on a report.

○ Displaying the report generation screen

1. Click the [Next] button on the report preparation screen (see Figure 6.49).
The report generation screen is displayed.

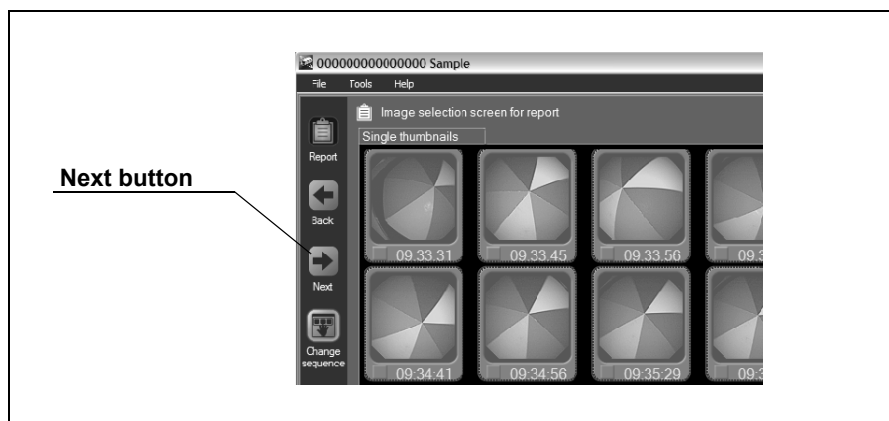


Figure 6.49

2. Contents specified on the initial setup screen are displayed (see Figure 6.50).

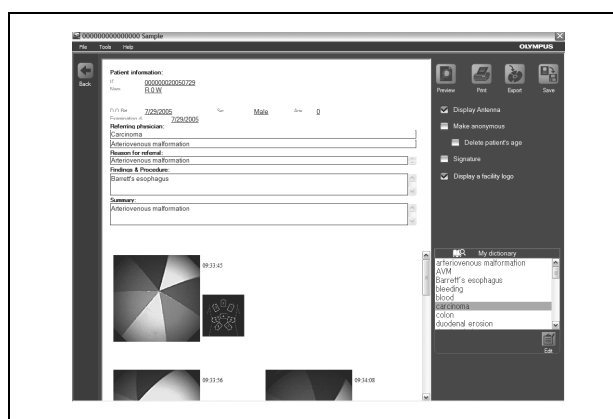


Figure 6.50

NOTE

Only grouped images are displayed.

3. Images grouped on the report preparation screen are displayed by group.

Displaying print previews

You can preview how the report will appear when printed.

1. Click the [Preview] button on the report generation screen (see Figure 6.51).
The print preview of the report is displayed.

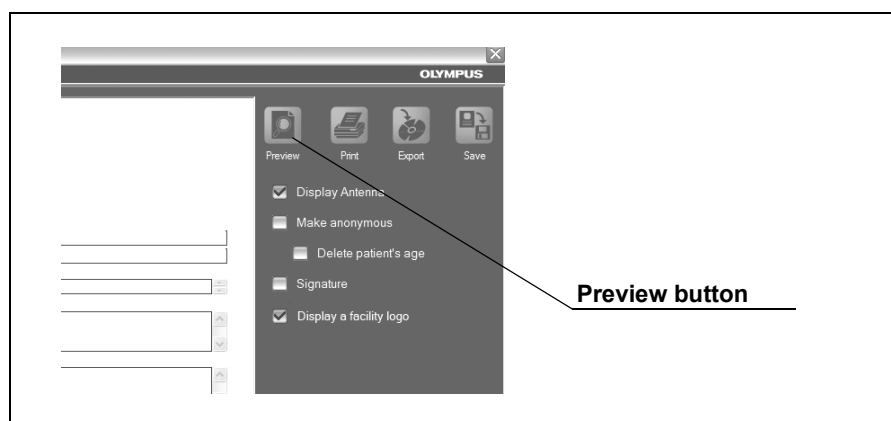


Figure 6.51

○ Print preview screen

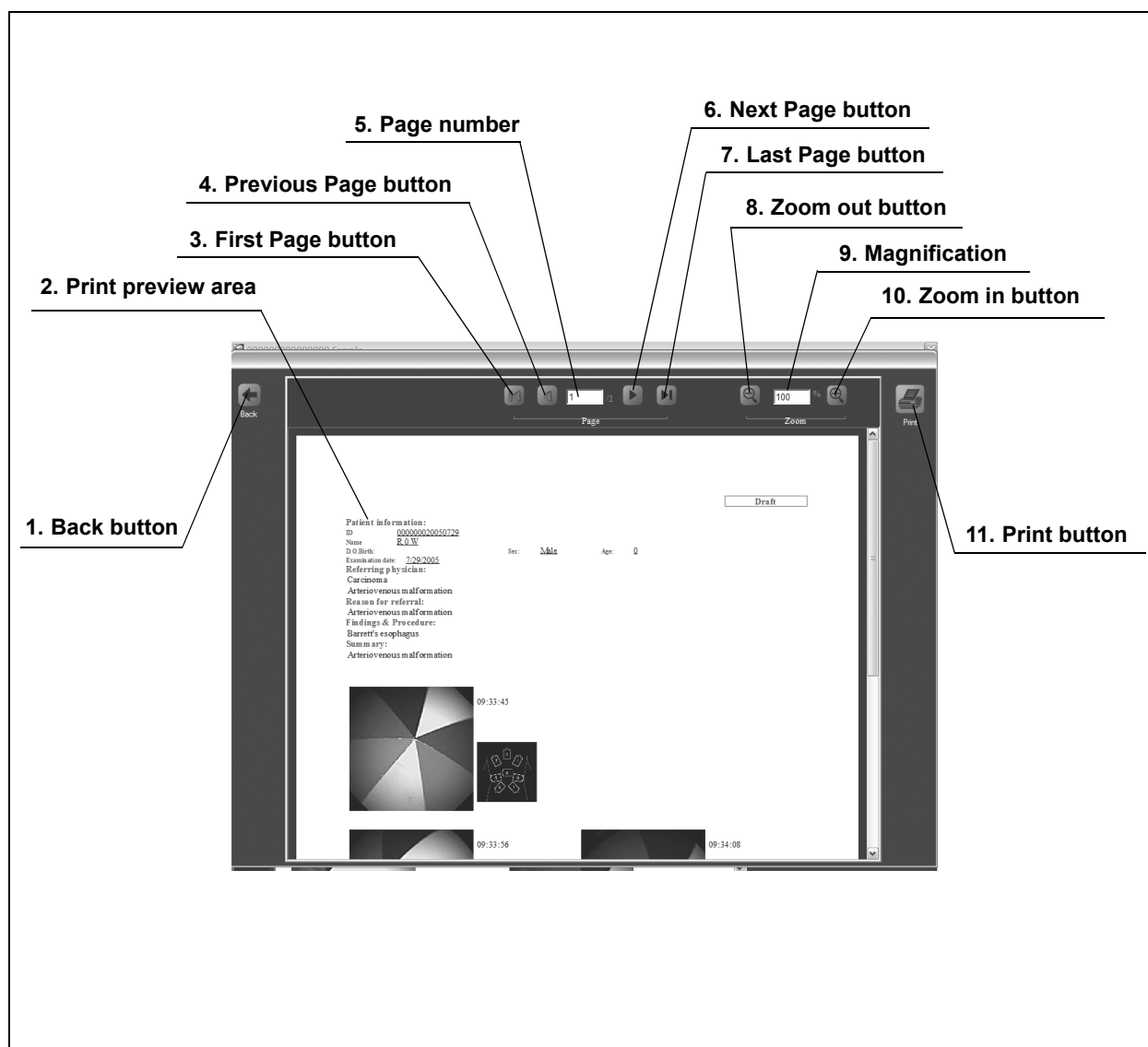


Figure 6.52

- 1. Back button**
Returns to the report generation screen.
- 2. Print preview area**
Displays the print preview.
- 3. First Page button**
Displays the print preview for the first page.
- 4. Previous Page button**
Displays the print preview for the previous page.
- 5. Page number**
Shows the page number for the displayed page.
- 6. Next Page button**
Displays the print preview for the next page.
- 7. Last Page button**
Displays the print preview for the last page.
- 8. Zoom out button**
Zooms out the print preview.
- 9. Magnification**
Shows the magnification used to display the print preview.
- 10. Zoom in button**
Zooms in the print preview.
- 11. Print button**
Displays the print setup screen.

○ Printing reports

1. Click the [Print] button on the report generation screen (see Figure 6.53) or the print preview screen. The print setup screen is displayed.

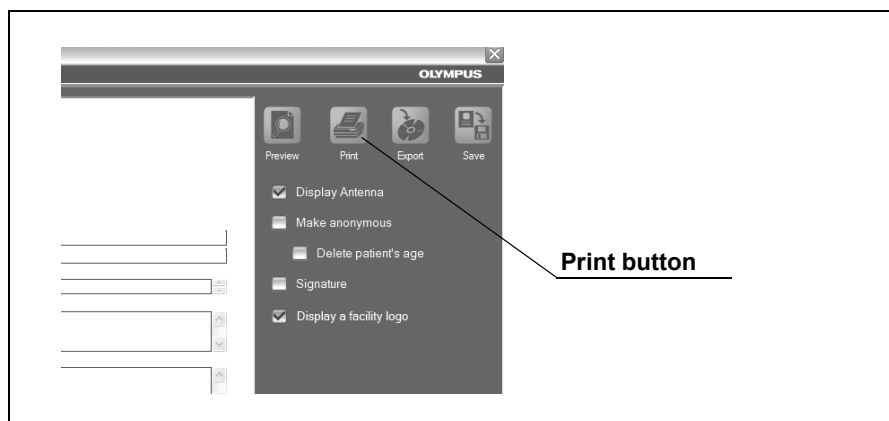


Figure 6.53

NOTE

You can also display the print setup screen by clicking the [Print] button on the print preview screen.

2. Click the [Print] button on the print setup screen (see Figure 6.54). The report is printed.

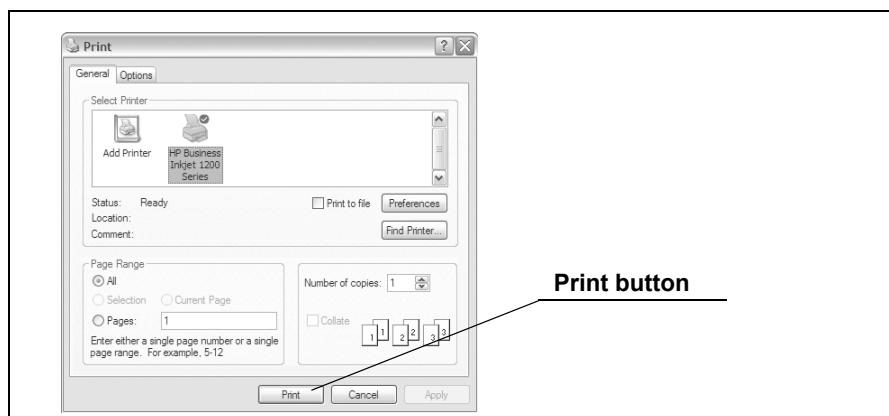


Figure 6.54

NOTE

- By default, the reports are adjusted to print to letter size paper.
- You can select the paper size from letter the size or A4.
- When A4 size is selected, the print size will be automatically scaled to match the paper size.

Exporting reports

You can export the generated report in HTML format.

1. Click the [Export] button on the report generation screen (see Figure 6.55).
The destination setting screen is displayed.

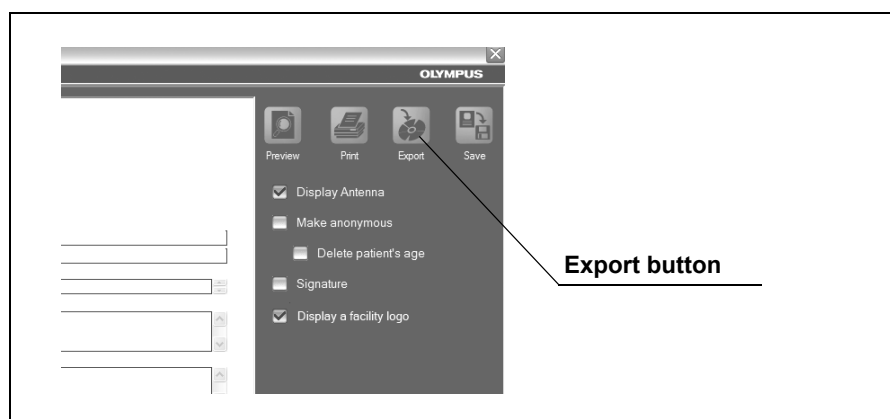


Figure 6.55

2. Select the destination (see Figure 6.56).

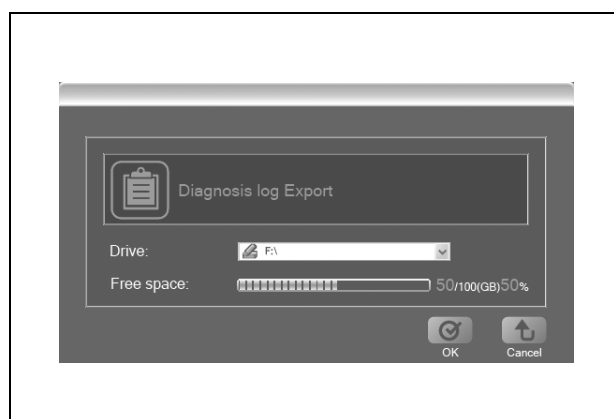


Figure 6.56

NOTE

- When exporting a report from the workstation, you can only export to external drives.
- When exporting a report from the Endo Capsule software light version of the PC, you can export to any drive.

3. Click the [OK] button (see Figure 6.57). The report is exported to the selected destination.

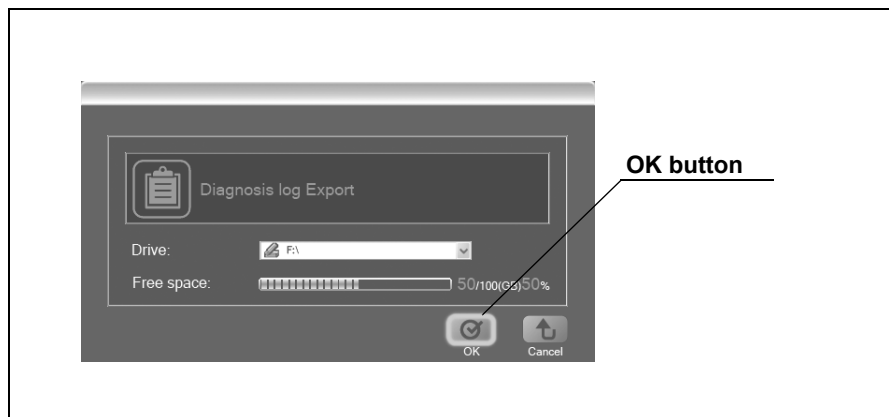


Figure 6.57

NOTE

- The report is exported in HTML format.
- The exported report can be viewed by any HTML browser.

Saving reports

You can save the generated report. The report can also be saved as a draft.

1. Click the [Save] button on the report generation screen (see Figure 6.58). The save screen is displayed.

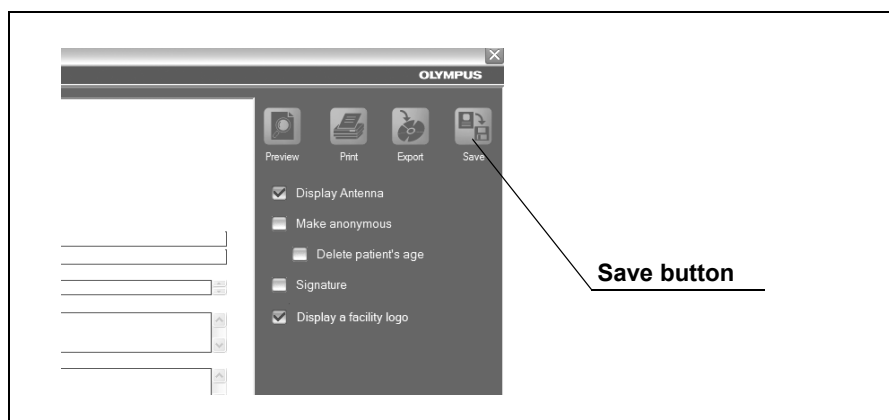


Figure 6.58

2. To finalize the report, click the [Finalize] button (see Figure 6.57). A report file is generated in HTML format.

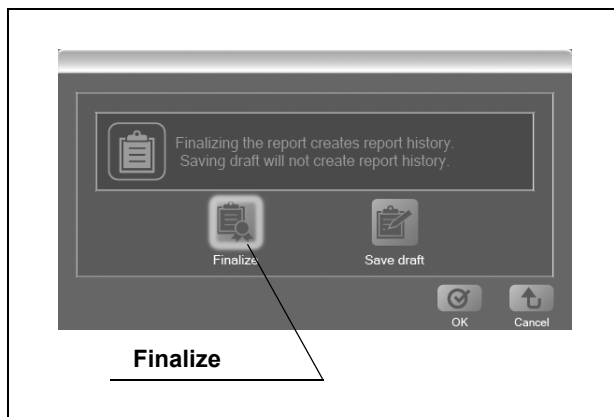


Figure 6.59

NOTE

- To save the report as a draft, click the [Save draft] button (see Figure 6.58). When the report is finalized, an HTML file of the report is created and the report history is recorded. When the report is saved as a draft, an HTML file of the report is not created and the report history is not recorded.

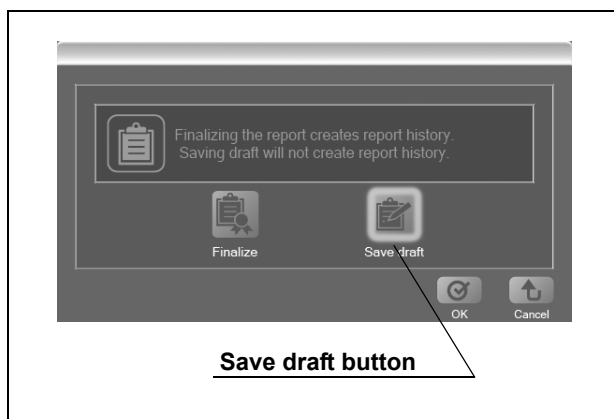


Figure 6.60

- Save the thumbnail data frequently to prevent possible data loss due to a breakdown.
- You can also save the thumbnail data by selecting “Save thumbnail” from the “File” menu. In this case, an HTML file of the report is not created and the report history is not recorded.

CAUTION

Finalize the report before you write the report onto the DVD.

Viewing the report history

You can view past reports by selecting them from the report history.

1. Select "History" from the "Tools" menu on the report generation screen when you open the examination data in the drive other than DVD. The history screen is displayed.

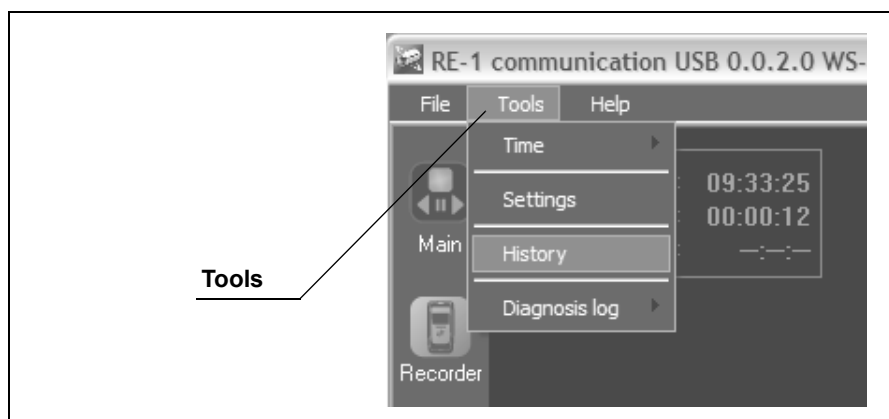


Figure 6.61

NOTE

Select "History" from the "Tools" menu on the main screen when you open the examination data in the DVD (see Figure 6.61). The history screen is displayed.

2. From the report history, select the report you wish to view, and click the [Open] button (see Figure 6.62).

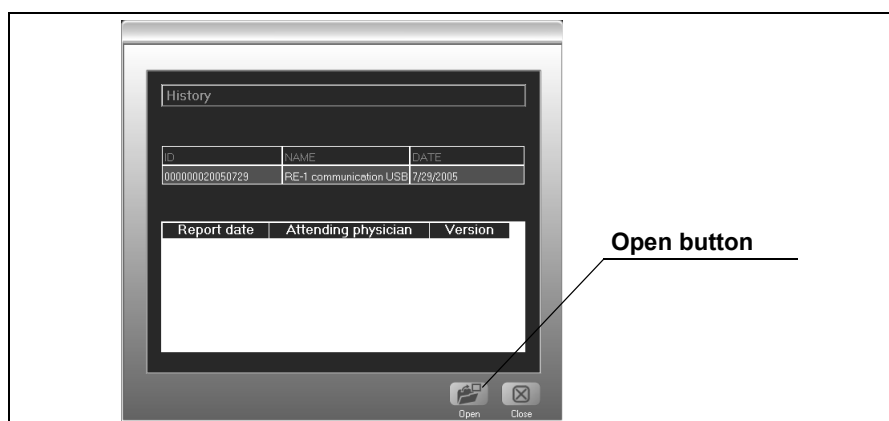


Figure 6.62

3. The selected report is displayed on the report preview screen.

NOTE

Click the [Cancel] button on the history screen to exit the history screen.

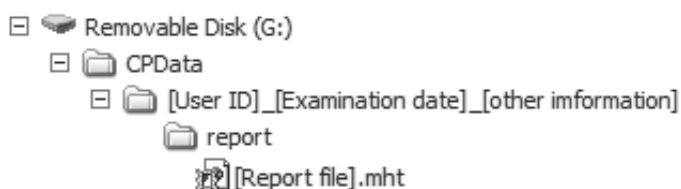
6.5 Examination data management

CAUTION

While writing to or reading from a USB memory, do not remove the USB device from the port. It may damage examination data and/or the USB device.

NOTE

- The “Examination Data Management” function is not available in Endo Capsule Software Light.
- Remove the USB devices from the workstation and restart the workstation when it does not work properly. Then connect the removed USB devices again.
- The report file is exported to the following location.



(*) Words in parentheses vary according to the exported data.

Examination list screen

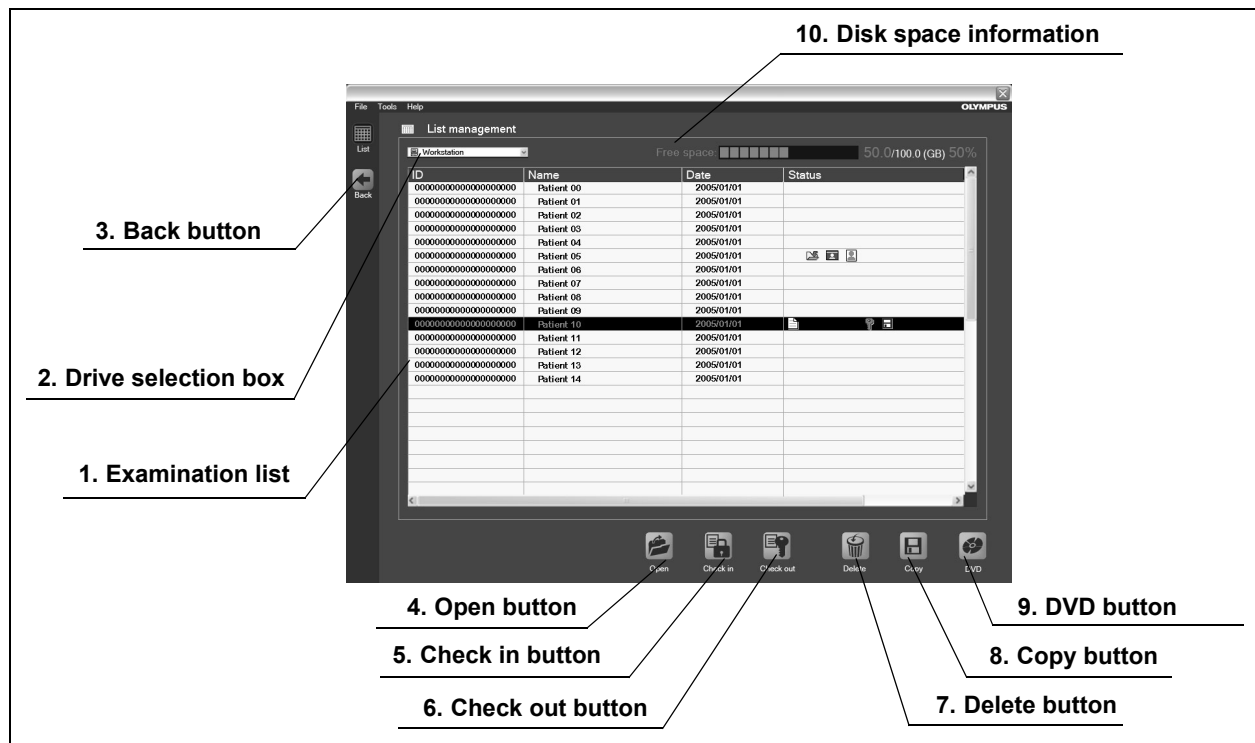


Figure 6.63

1. Examination list

Displays the list of examination data stored on the selected drive.

2. Drive selection box

Select the drive on which the examination data you wish to view is stored.

3. Back button

Returns to the main screen.

4. Open button

Opens the selected examination data.

5. Check in button

Checks in the selected examination data.

6. Check out button

Checks out the selected examination data.

7. Delete button

Deletes the examination data and the thumbnail data.

8. Copy button

Displays the examination data copy screen.

9. DVD button

Displays the DVD writing screen.

10. Disk space information

Displays the free space of the selected drive.

Displaying the examination list screen

NOTE

The following icons are displayed in the “Status” column of the examination list.

Icon	Caption	Explanation
	Original	The examination data which has been downloaded from a recorder.
	Imported	The examination data which is imported from a external storage to the workstation.
	With archive	The archived examination data in the workstation.
	Checked out	The examination data in the workstation which has been checked out.
	Password protected	The examination data protected by a password.
	Anonymous	The examination data from which the individual information has been removed.

1. Click the [List] button on the main screen (see Figure 6.64). The examination list screen is displayed.

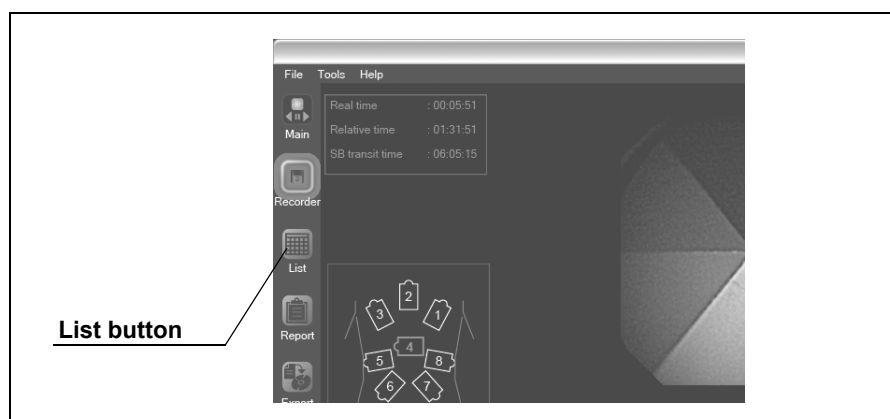


Figure 6.64

2. To exit the examination list screen, click the [Back] button (see Figure 6.65).

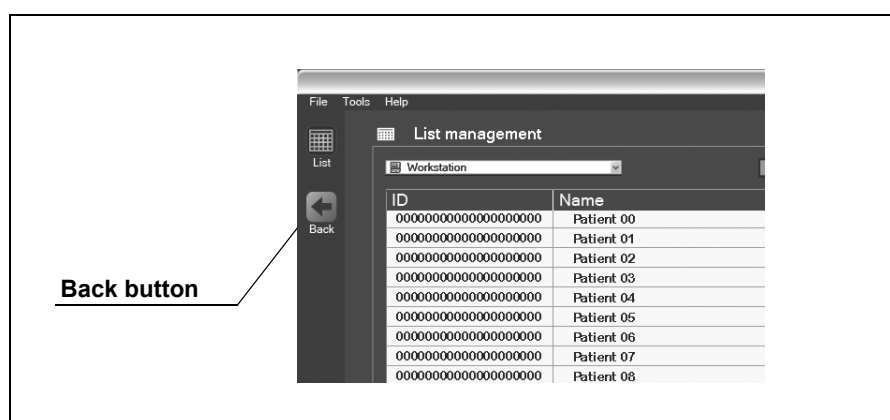


Figure 6.65

Checking out the examination data

You can copy the examination data and thumbnail data from the workstation onto an external drive, and edit the copied thumbnail data. You cannot edit thumbnail data on the source workstation until the copied data is restored to the workstation. This is referred to as the “check-out” function.

1. From the examination list on the examination list screen, select the examination data associated with the thumbnail data you wish to check out.
2. Click the [Check Out] button (see Figure 6.66). The thumbnail data selection screen is displayed.

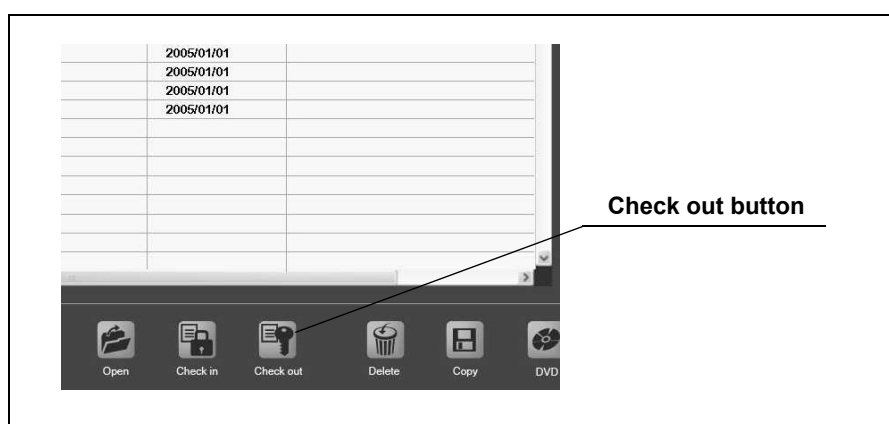


Figure 6.66

3. From the thumbnail data list on the thumbnail data selection screen, select the thumbnail data you want to check out (see Figure 6.67).



Figure 6.67

NOTE

To create a new thumbnail data, select “New” (top row) from the examination data list.

4. Click the [OK] button (see Figure 6.68). The check-out destination selection screen is displayed.

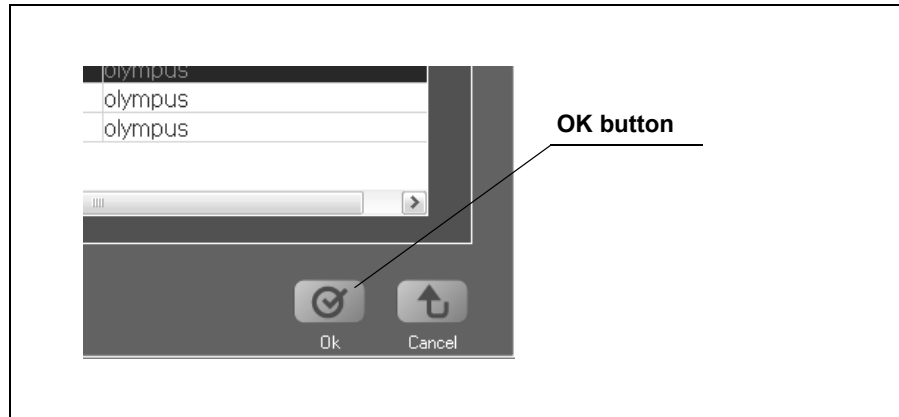


Figure 6.68

5. Use the drive selection box to select the drive to which the data is checked out and click the [OK] button. The examination data and the thumbnail data are copied to the check-out destination (see Figure 6.69).



Figure 6.69

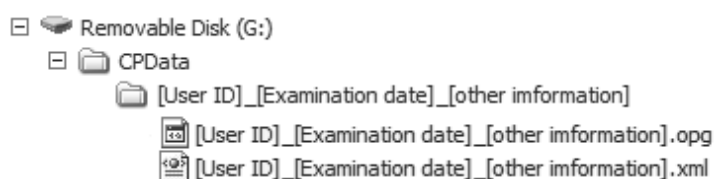
CAUTION

The internal hard drive of the workstation cannot be selected. Select an external drive.

NOTE

- Check the “Password” checkbox to set a password for the check-out function.
- If you specify a password when checking out the data, you will be required to enter the password to open the thumbnail data.
- Click the [Cancel] button to exit the check-out destination selection screen.

- If there is insufficient storage space on the selected check-out destination, you can make free space by deleting the unnecessary files.
- While copying the data to the check-out destination, a progress screen will be displayed. To stop the copying process, click the [Cancel] button on the progress screen.
- The examination data (*.opg) and the thumbnail data (*.xml) is exported to the following location.



(*) Words in parentheses vary according to the check out data.

Checking In the thumbnail data

Once you have finished editing the checked out thumbnail data, you must return it to the source workstation. This is referred to as the “check-in” function.

1. Select the checked out examination data and click the [Check in] button (see Figure 6.70). The check-in source selection screen is displayed.

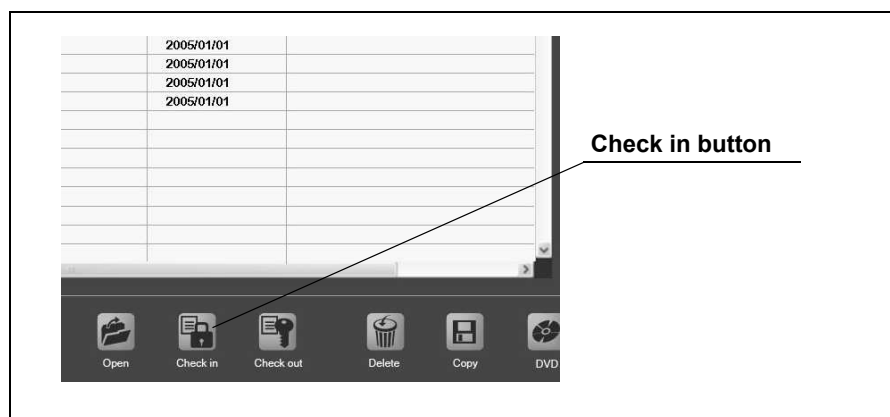


Figure 6.70

2. Use the drive selection box to select the drive that contains the checked out thumbnail data which you wish to check in (see Figure 6.71).

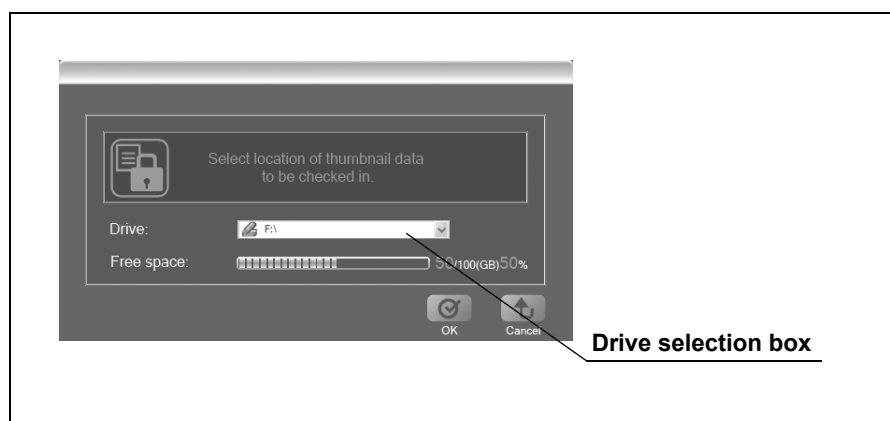


Figure 6.71

NOTE

Only external drives can be selected.

3. Click the [OK] button (see Figure 6.72). The thumbnail data selection screen is displayed.

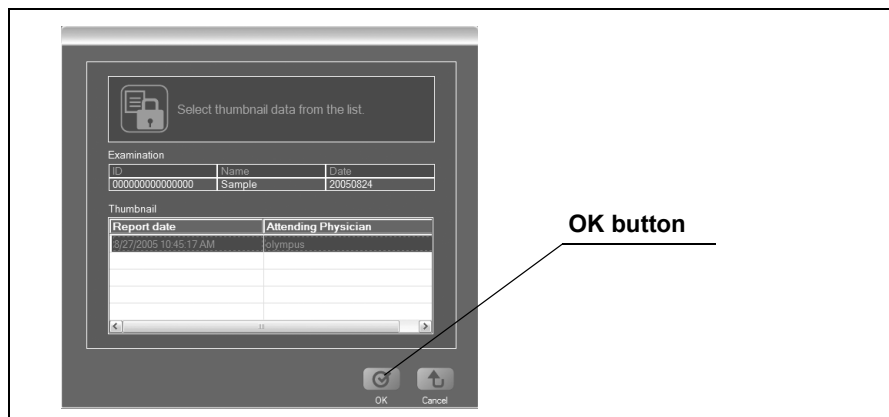


Figure 6.72

4. From the list of thumbnail data, select the thumbnail data you wish to check in (see Figure 6.73).

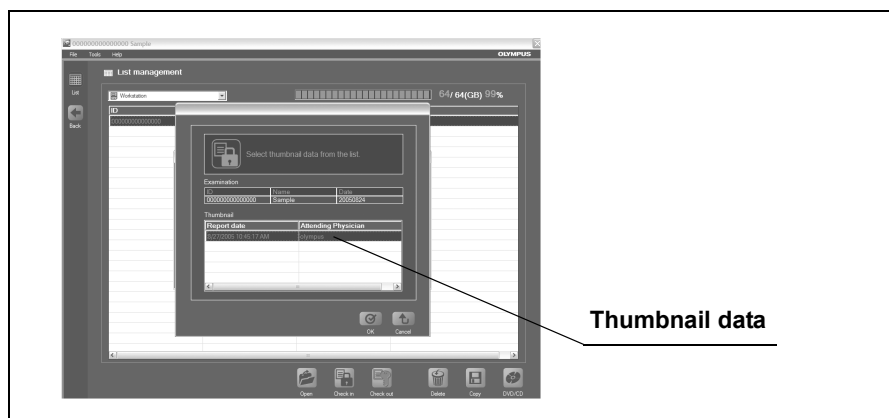


Figure 6.73

5. Click the [OK] button (see Figure 6.74). The thumbnail data being checked in is saved, and the check-in process is complete.

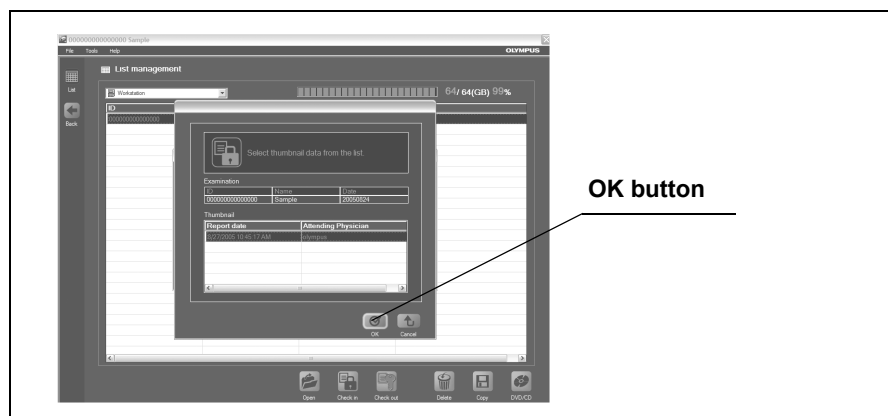


Figure 6.74

NOTE

If you select “New” from the list of thumbnail data when checking out the data and do not make the thumbnail data on Endo Capsule Software Light, you can not check in the thumbnail data. To release a check-out, see “Releasing the check-out” on page 200.

Releasing the check-out

If the checked out thumbnail data cannot be checked in, perform the following steps to release the check-out.

CAUTION

If you release a check-out, the checked out data cannot be saved.

1. Log in as an administrator.
2. Click the [List] button on the main screen (see Figure 6.75). The examination list screen will appear.

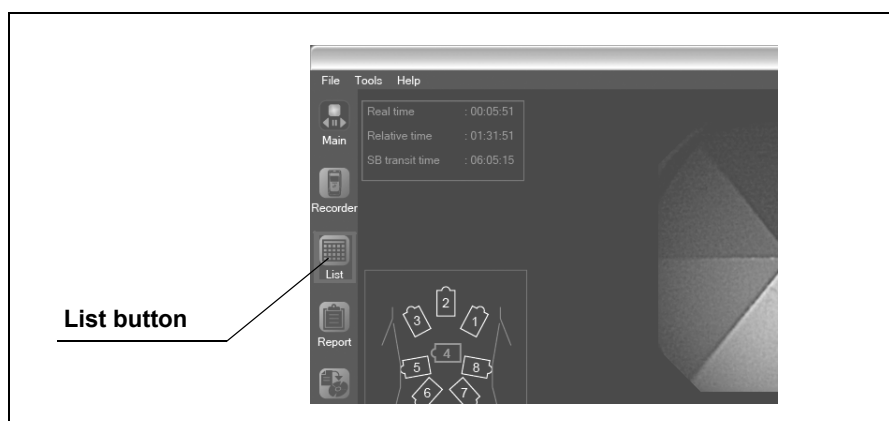


Figure 6.75

3. Select the checked out examination data (see Figure 6.76).

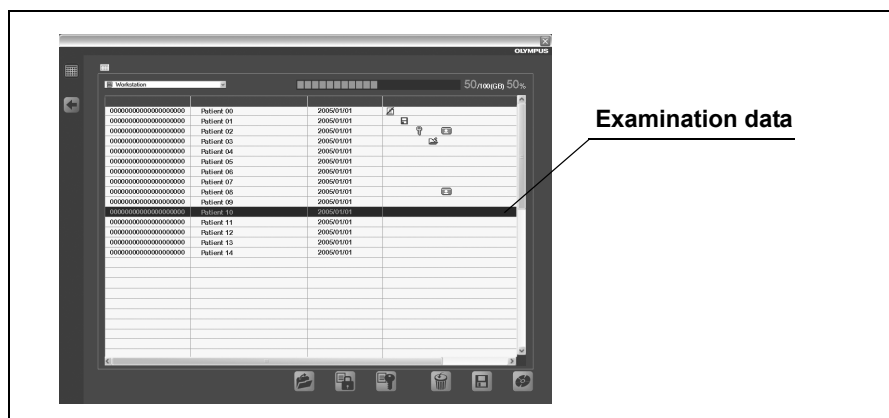


Figure 6.76

4. Right-click the examination data and select “Check out” from “Reset” in the context menu (see Figure 6.77). The check-out is released.

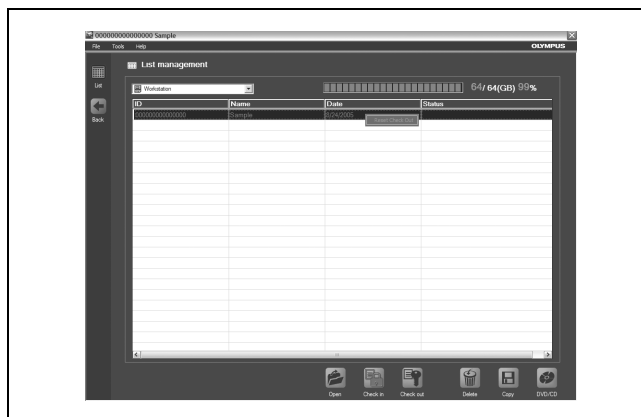


Figure 6.77

Importing examination data from external drives onto the workstation

You can import examination data from a DVD or an external drive (such as an external hard disk) onto the workstation.

1. Using the drive selection box on the examination list screen, select the external drive that contains the examination data (see Figure 6.78).

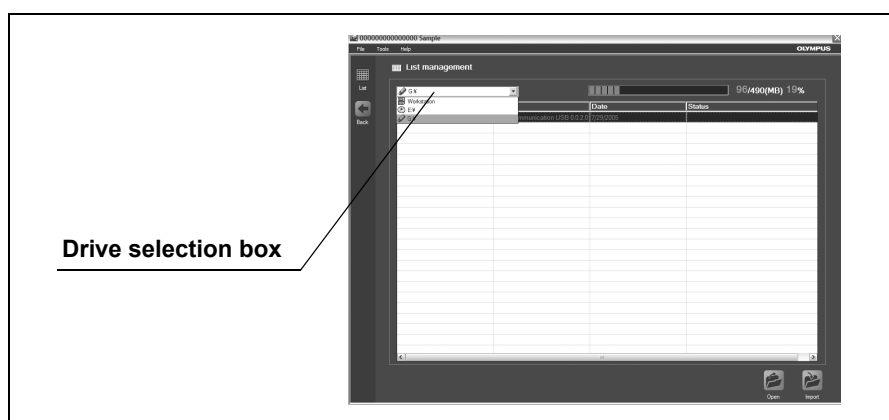


Figure 6.78

2. From the examination list, select the examination data you wish to import onto the workstation (see Figure 6.79).

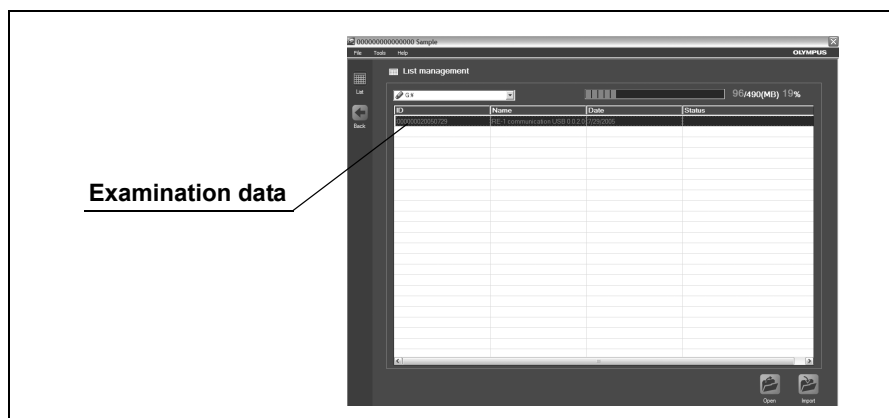


Figure 6.79

- Click the [Import] button (see Figure 6.80). The thumbnail data selection screen is displayed.

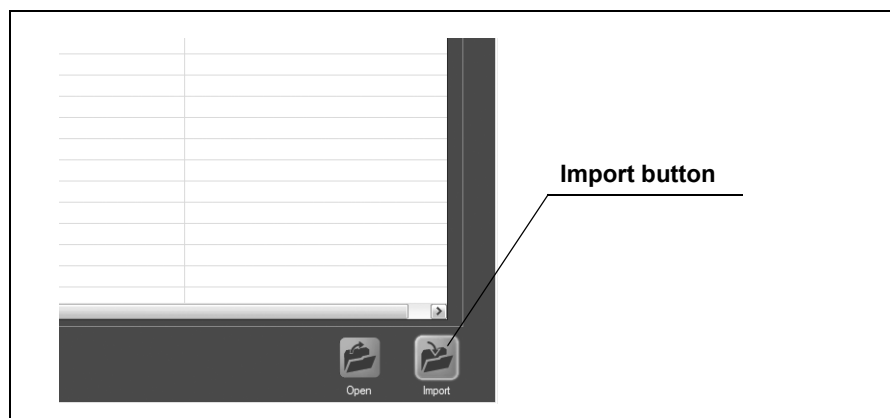


Figure 6.80

- From the list of thumbnail data, select the thumbnail data you wish to import.
- Click the [OK] button (see Figure 6.81). The examination data and the selected thumbnail data are imported onto the workstation.

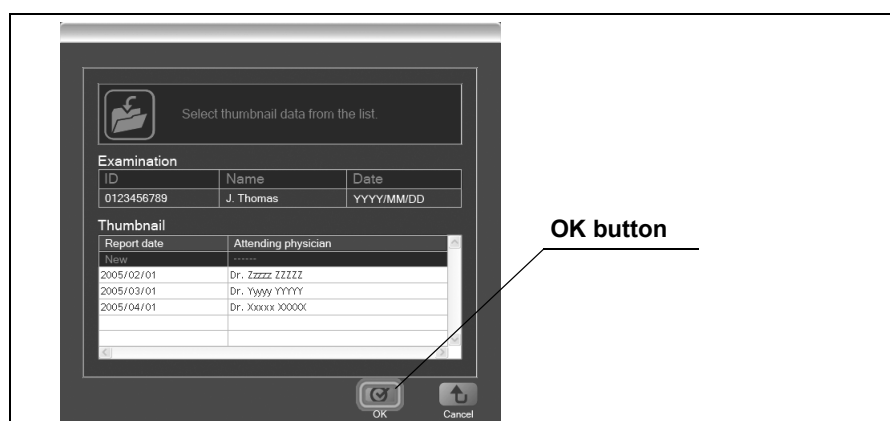


Figure 6.81

NOTE

- If there is insufficient storage space on the internal hard drive of the workstation, the error message will be displayed.
- “Cannot import data because workstation does not have sufficient disk space” message is displayed. Create enough disk space to import data.

Copying examination and thumbnail data

1. Select the examination data you wish to copy and click the [Copy] button on the examination list screen (see Figure 6.82). The copy screen is displayed.

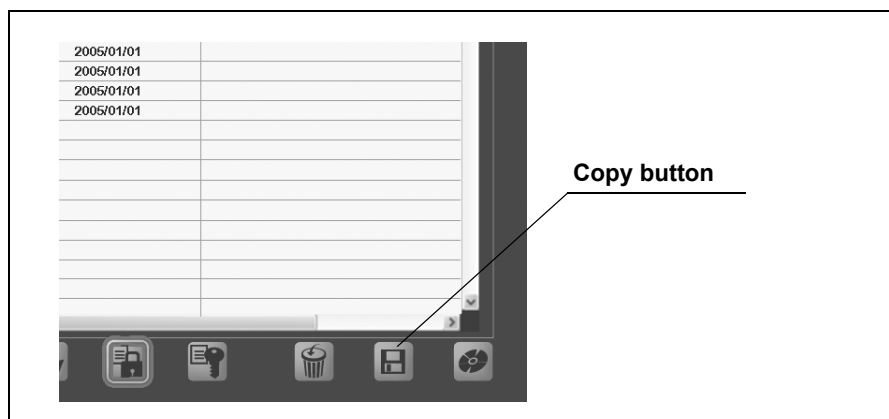


Figure 6.82

NOTE

- You can select multiple examination data simultaneously. The thumbnail data associated with the selected examination data will be copied automatically.
 - To exit the copy screen, click the [Cancel] button.
2. Use the drive selection box to select the destination drive on the copy screen (see Figure 6.83). The amount of available disk space on the selected drive is displayed.

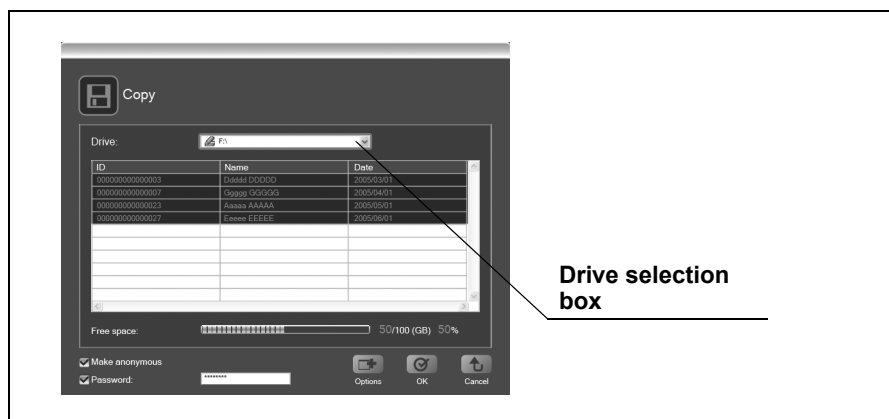


Figure 6.83

NOTE

The folder for the examination data will be created automatically during the copying process.

3. The selected examination data which you wish to copy is displayed. (see Figure 6.84).

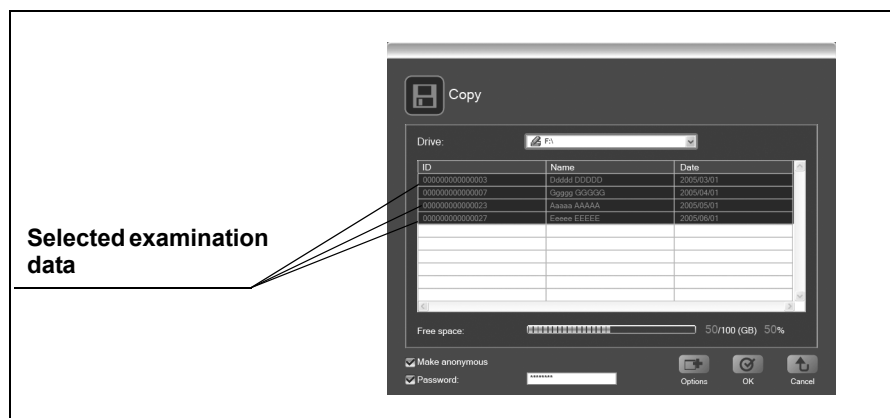


Figure 6.84

4. Click the [Option] button to display the data copy options screen (see Figure 6.85).

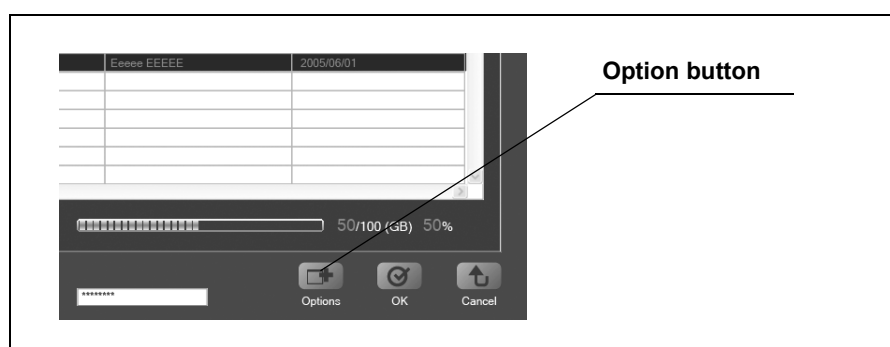


Figure 6.85

5. Select the type of files to be copied together with the examination data. Click the [Picture] button to copy still images, and the [Movie] button to copy video files (see Figure 6.86).

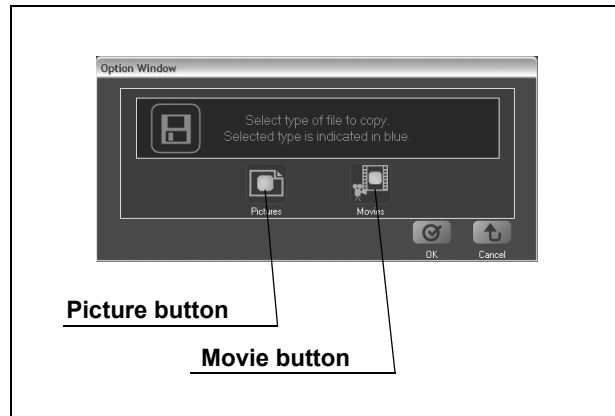


Figure 6.86

NOTE

All items are selected by default.

6. Click the [OK] button to save the settings and exit the data copy options screen (see Figure 6.87).

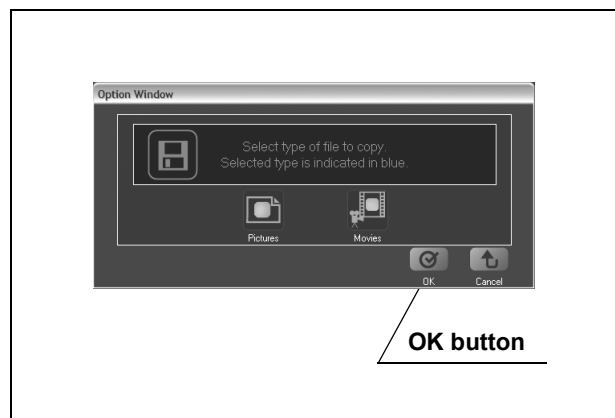


Figure 6.87

7. Check the “Password” checkbox to set a password (see Figure 6.88).

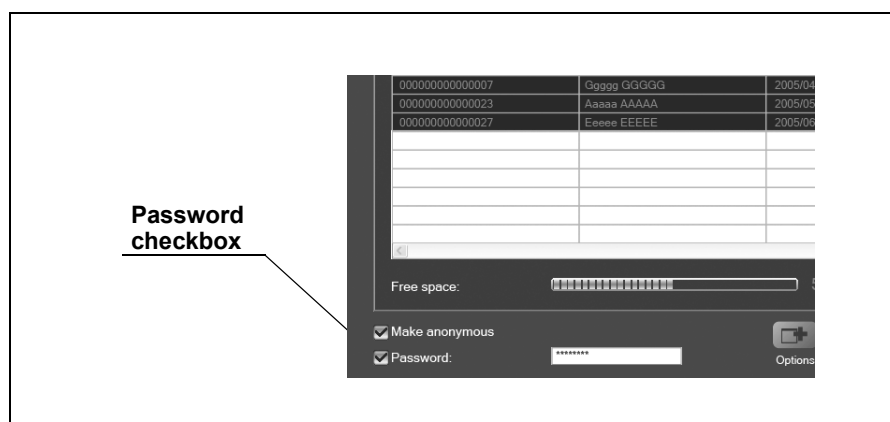


Figure 6.88

NOTE

If you specify a password when copying the examination data, you will be required to enter the password to open the copied examination data.

8. Check the “Make anonymous” checkbox to copy the examination data with the individual information removed (see Figure 6.89).

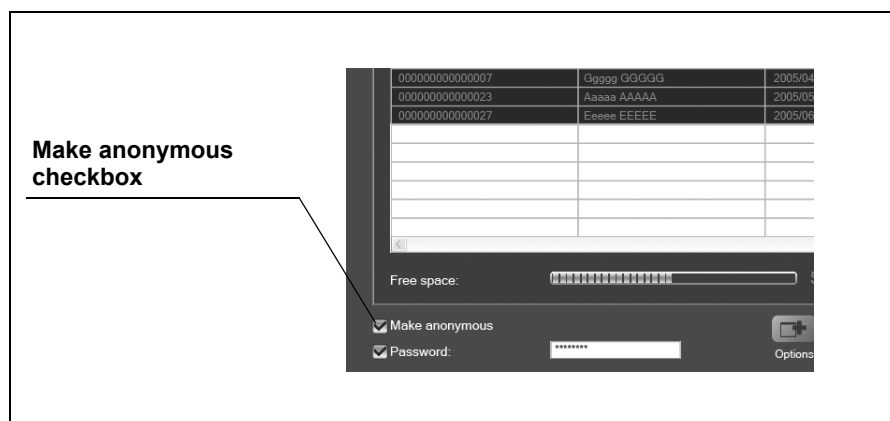


Figure 6.89

NOTE

- Individual information removed include “Patient name” and “Image showing individual information”.
- To remove “Image showing individual information”, you will need to set the hiding feature. For more information, refer to “Hiding images” on page 216.

9. Click the [OK] button on the data copy screen (see Figure 6.90). The selected examination data will be copied. The progress screen is displayed while the examination data is being copied.

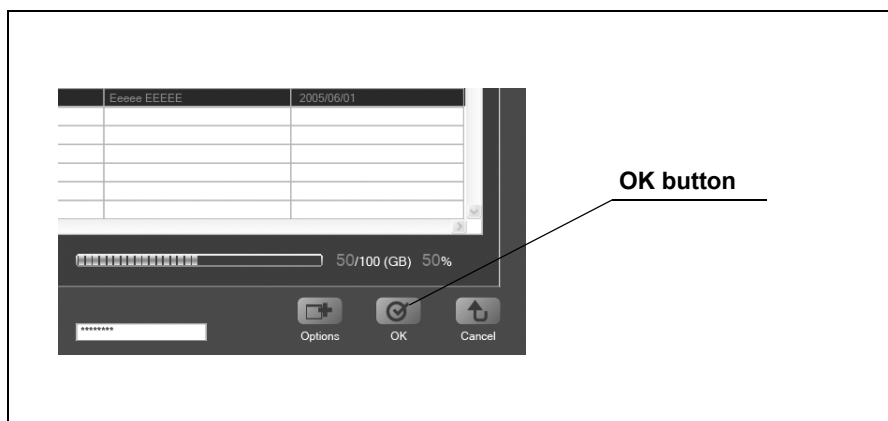


Figure 6.90

NOTE

- To stop the copying process, click the [Cancel] button on the progress screen.
 - If there is insufficient storage space on the copy destination, an error message will be displayed. In this case, refer to Chapter 8, “Troubleshooting” on page 233.
 - Do not remove an external storage device while copying. Copying will fail and it may cause hang-up of the workstation.
10. When the copying of examination data is complete, you will be returned to the examination list screen.

Deleting examination and thumbnail data

NOTE

The examination data which has not been archived can not be deleted.

1. Select the examination data you wish to delete and click the [Delete] button on the examination list screen (see Figure 6.91). The examination data deletion screen is displayed (see Figure 6.91).

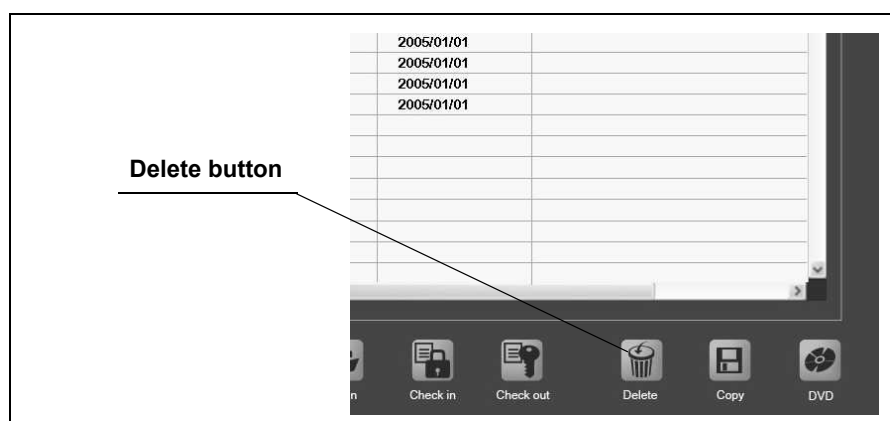


Figure 6.91

NOTE

- You can select multiple examination data simultaneously.
- To exit the screen, click the [Cancel] button.

2. The selected examination(s) which you wish to delete is displayed (see Figure 6.92).

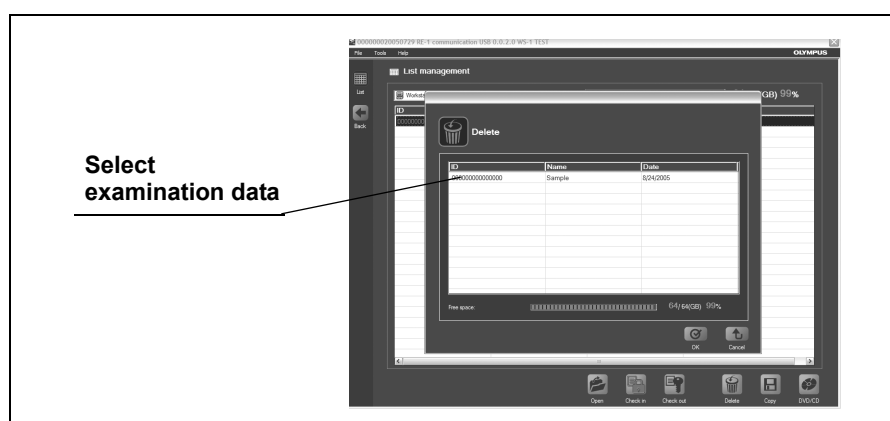


Figure 6.92