

User's Manual

CuratOR® MIR Browser

Medical Imaging Viewer and Management Software

CuratOR® MIR Browser LE

Medical Imaging Viewer and Management Software - Light Edition

Software Version 1.1

Important

Carefully read this User's Manual before use to use the product correctly.

• For the latest product information including the "User's Manual", refer to our web site:

www.eizo-or.com

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PRECAUTIONS

Important

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Notation

- If there is a difference between the explanation in this document and the actual operation method, priority shall be given to the actual operation method.
- This document is intended for those who are capable of performing basic computer operations. For operations not specifically described, perform them in the same way as general computer operations.
- For ease of explanation, there may be differences between the actual software and the illustrations or photos shown. The screen photos are under development.

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Cybersecurity Warnings and Responsibilities

- Please implement the following measures to protect information assets from cyber attacks.
 - Set a password for the computer or external storage where this software is installed and used
 - Install security software (antivirus software, firewall, etc.)
 - Use an operating system that is still supported
 - Ensure that the security software used with your operating system is always up-todate
 - Manage passwords to prevent them from being exposed
 - Use this software on a secure network using a network environment or VPN (Virtual Private Network) that is isolated from the internet
- Install and update this software using the installation file and update file provided by EIZO Corporation or its distributor.

PRECAUTIONS

- If an update file is provided by EIZO Corporation or its distributor, update it immediately and use the latest version.
- Computers and external storage devices may store sensitive information such as personal data. To prevent information leakage, please use appropriate methods such as data deletion or destruction when disposing of the equipment.

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1 Introduction

1.1 Features

MIR Browser / MIR Browser LE is software designed for managing and utilizing videos and still images created with CuratOR MIR-1.

MIR Browser is software that provides access to all available functions.

MIR Browser LE is software with restricted access to certain features.

The features available in MIR Browser / MIR Browser LE are as follows:

√: Available, -: Unavailable

Feature		MIR Browser	MIR Browser LE
Browse screen	Browse network folder	✓	√*1
	Display clip	✓	✓
	Search clip	✓	✓
	Copy clip	✓	✓
	Comments, labels	✓	√*1
	Manage patient information	✓	✓
Player screen	Display 3D image	✓	✓
	Edit video (IN/OUT settings)	✓	√*2
	Save still image	✓	✓
	Encoding	✓	-
	Annotation	✓	✓
	Mask View	✓	-

^{*1} Available within this software only. Comments and labels cannot be shared over a network.

^{*2} Playback is available only in the software.

2 Operating Environment

2.1 Operating Environment

os	Windows 10 64-bit
	Windows 11
CPU	Intel® Core processors
	*10th generation (Comet Lake) and later
Memory	8 GB or more
Screen resolution	1920 x 1080 or higher

2.2 Input File Format

2.2.1 Videos

Video	Audio	Container
H.264	MPEG Audio Layer 2, AAC	TS, MP4
HEVC (H.265)	MPEG Audio Layer 2, AAC	TS, MP4

2.2.2 Still images

	Still image	
JPEG		
TIFF		\Box

2.3 Export File Format

2.3.1 Videos

Attention	
MIR Browser LE does not support the video export function.	

Video	Audio	Container
H.264 ^{*1}	MPEG Audio Layer 2, AAC	TS, MP4
HEVC (H.265)*2	MPEG Audio Layer 2, AAC	TS, MP4
MPEG-TS extraction without re- encoding*3		TS
MPEG-TS to MP4 container conversion*3		MP4

^{*1} Compatible with Intel® Quick Sync Video (QSV), NVIDIA® NVENC, and software encoding

 $^{^{\}star 2}$ Compatible with Intel® Quick Sync Video (QSV) and NVIDIA® NVENC

^{*3} Only available for MPEG-TS files

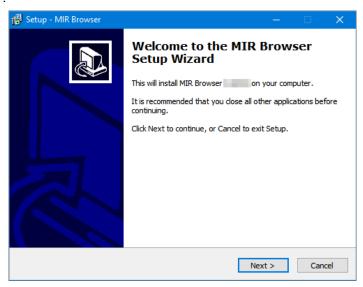
2.3.2 Still images

Still image
JPEG
JPEG (4:2:2)
TIFF
PNG

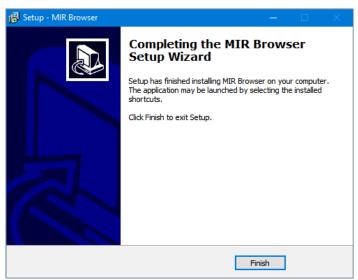
3 Preparation

3.1 Installation

- 1. Extract the "MIRBrowserSetup.zip" file that was downloaded.
- 2. Double-click "MIRBrowserSetup.exe".
- 3. Click "Next".



- 4. Confirm the contents, select "I accept the agreement", and click "Next".
- 5. Select the destination folder for installing MIR Browser and click "Next".
- 6. If necessary, check the box for "Create a desktop shortcut" and click "Next".
- 7. Click "Install" to begin the installation. When the installation is completed, the "Completing the MIR Browser Setup Wizard" window appears.



8. Click "Finish". The MIR Browser icon appears on the desktop.

Note

- If you want to uninstall the software, follow these steps:
- 1. Select "Start" "Settings" "Apps" in order.
- 2. Select "MIR Browser" from the list, and click "Uninstall".
- 3. Follow the on-screen instructions to uninstall the software.

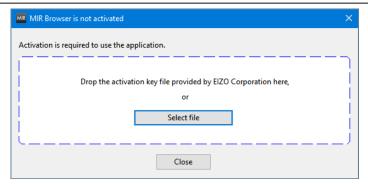
3.2 Activating the License (On Initial Startup)

Activation is required when starting this software for the first time.

- 1. Double-click the desktop icon or select "Start" "MIR Browser" "MIR Browser".
- 2. Specify the activation key file.

Note

• For instructions on how to obtain an activation key, please contact EIZO.



3. When "OK" is selected, MIR Browser starts.

3.3 Startup

Double-click the desktop icon or select "Start" - "MIR Browser" - "MIR Browser".

- · If already activated MIR Browser starts up.
- If not activated (only during initial startup) Perform activation (see 3.2 Activating the License (On Initial Startup) [▶ 12]).

3.4 Registering Presets

Create presets for each folder (and subfolders) where content is recorded, and manage the content accordingly.

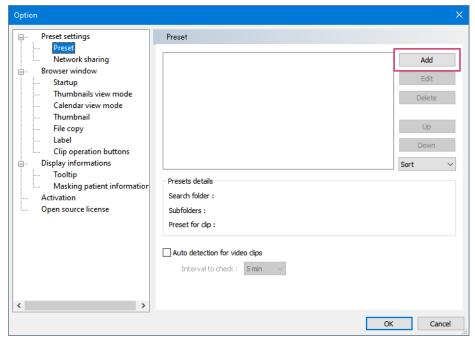
1. Start MIR Browser.

When starting for the first time, presets are not registered, so the following dialog box is displayed.



Click "OK" to register a preset.

2. Click "Preset settings" - "Preset" - "Add."



The "Adding and editing a preset" screen appears.

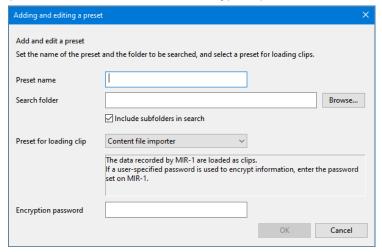
3. Configure the information of the preset.

Specify a name for the preset and the path to the folder where the clips are saved. If you want to search all subfolders, check "Include subfolders in search."

To read presets, select "Content file importer" when referencing files recorded with MIR-1, and "Video file importer" when referencing video files recorded with products other than MIR-1.

- Content file importer
 Handles video files and patient information.
 Patient information refers to CCX files exported from products such as MIR-1.
- Video file importer Handles only video files.

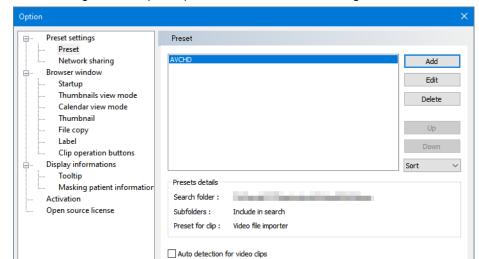
When "AES256" is selected in the MIR-1 information file encryption settings, the password specified in MIR-1 is set as the "Encryption password."



Attention

If you want to access a folder on the network that requires you to sign in, use the Windows
credentials feature to set a username and password.

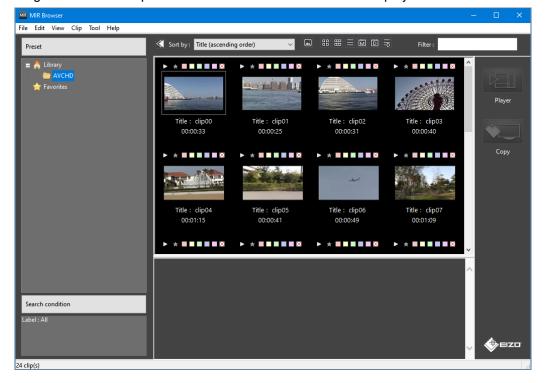
OK Cancel



4. When all settings are complete, press "OK" to close the dialog box.

The created presets are displayed in a tree on the left side of the screen. If the folder path and import preset are correctly selected, thumbnails of videos and still images saved in the specified folder as shown below will be displayed.

Interval to check : 5 min



3.5 Network Sharing

Clips placed on a network can be shared between multiple computers.

Attention

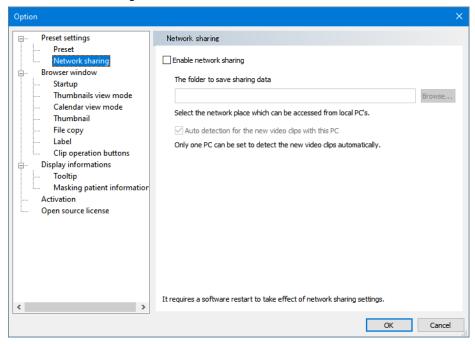
MIR Browser LE does not support this function.

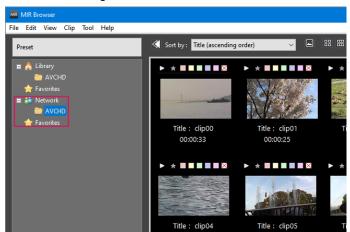
Presets created on a network share can also be accessed from other computers, and information such as label settings, titles, and comments can also be shared.

Follow the steps below to set up network sharing and register clips placed on the network as presets.

When using this function, you need to specify a folder on the network that is readable and writable for storing shared data.

- 1. Select "Tool" "Browser options" from the menu.
- 2. On the "Preset settings" "Network Sharing" screen on the options screen, check "Enable network sharing."
- 3. In "The folder to save sharing data," specify an accessible network folder that you want to use as the data storage destination.





4. Select "OK" to close the dialog box and restart the software.

When you restart the software, "Network" is added to the list of presets.

Presets in "Library" are saved on your computer as computer-specific presets.

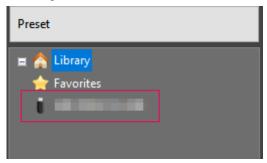
Presets in "Network" are shared over a network and can also be accessed from other computers.

You can also use the favorites and search preset functions for network shared presets. Also, if network sharing is enabled, label names and color settings are shared with other computers.

3.6 Managing Removable Disks

You can manage content recorded on removable disks.

1. While the software is running, connect a removable disk.

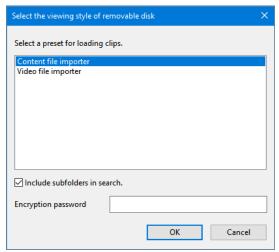


Once recognized by the computer, the name of the removable disk will appear in the list of presets.

2. When a removable disk is selected from the preset list, the "Select the viewing style of removable disk" dialog box will be displayed. In the case of data recorded with MIR-1, select "Content file importer."

If you want to search all subfolders on the hard disk, check "Include subfolders in search."

When "AES256" is selected in the MIR-1 information file encryption settings, the password specified in MIR-1 is set as the "Encryption password."

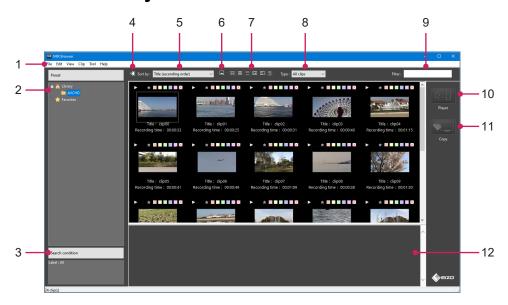


Note

• If a previously connected removable disk is assigned the same drive letter as before, the results from the previous selection will be automatically applied. If you want to change it, right click on the removable disk icon and select "Edit preset," and the dialog box for selecting the browsing method will be displayed again.

4 Browse Screen

4.1 Browse Screen Layout



1.	Browse screen menu	(See 4.2 Browse Screen Menu [▶ 20])
2.	Preset	Displays the list of clip presets.
		Displays the preset name registered on the preset registration screen.
3.	Search condition	You can filter clips by applying search conditions.
		Also, search presets can be registered.
		(See 4.3 Search Condition [▶ 22])
4.	Show / hide presets panel	Shows or hides the presets panel.
		It functions the same as the "Presets panel" in the "View" menu.
		(See 4.2 Browse Screen Menu [▶ 20])
5.	Sort clips	Selects the sorting order for the clips.
6.	Thumbnail size	You can change the size of thumbnails.
		Click the button to display the slider.
		Move the slider to adjust the size.
7.	Omiton bothoon from	Switches between clip view modes.
	modes	From left to right, the options are: Icon view, Thumbnail list view, Report view, Calendar view (month), Calendar view (day), and Calendar report view.
8.	Туре	Selects the types of clips to be listed.
9.	Filter	By entering keywords, you can extract clips that contain specific text information.

10. Open in player	Opens the selected clip in the player.
	You can save an image at any position in a clip as a still image, or export any area of the clip as a separate movie file.
11. Copy clip	Copies the selected clip to the specified folder.
	You can also copy to an existing preset folder.
	(See 4.4 Copying a Clip [▶ 24])
12. Clip information	Displays information about the selected clip.

Note

• The "Delete clip" button is also available. To show or hide buttons, change the settings on the "Browser options" - "Clip operation buttons" page.

4.2 Browse Screen Menu

4.2.1 File

Exit	Closes the software.
------	----------------------

4.2.2 Edit

Copy to clipboard	Copies the selected clip to the clipboard.	
	You can paste it to other software via the clipboard.	
Select All	Selects all the clips that are displayed.	

4.2.3 View

Presets panel	Shows or hides the presets panel.	
Clip operation panel	Shows or hides the clip operation panel.	
Clip information	Shows or hides the clip information.	
Status bar	Shows or hides the status bar.	
Icon view	Switches the clip view mode to icon view mode.*2	
	(See Icon view [▶ 25])	
Thumbnail list view	Switches the clip view mode to thumbnail list view.*2	
	(See Thumbnail list view [▶ 25])	
Report view	Switches the clip view mode to report view.*2	
	(See Report view [▶ 25])	
Calendar view (month)*1	Switches the clip view mode to calendar view (month).*2	
	(See Calendar view (month) [▶ 26])	
Calendar view (day)*1	Switches the clip view mode to calendar view (day).*2	
	(See Calendar view (day) [▶ 26])	
Calendar report view	Switches the clip view mode to calendar report view.*2	
	(See Calendar report view [▶ 26])	
Updated to the latest information	Update the contents of the presets folder.	

^{*1} The sorting function is not available in the calendar view.

^{*2} You can also switch view modes using the switch buttons (see 4.1 Browse Screen Layout [▶ 19]).

4.2.4 Clip

Open in player	Opens the selected clip on the player screen.
	(See 5.1 How to Open the Player Screen [▶ 39])
Label	Sets a label for the selected clip.
	If you want to remove the label, select "None".
	(See Labels [▶ 27])
Favorites	Sets a favorite mark.
	If you select "Favorites" from the presets list, only clips with the "Favorite" label will be displayed.
	(See Favorites [▶ 27])
Change title	Changes the title.
	The file name of the clip will not be changed.
Enter comments	Sets comments.
	The set comments are displayed in the tooltip of the clip.
Set as 3D content	The clip is handled as 3D content.
	When playing 3D content, preview formats such as left screen only, right screen only, or both can be selected.
Copy clip	Copies the clip.
	It functions the same as the clip copy button.
	(See 4.4 Copying a Clip [▶ 24])
Rename file	Renames the file. Changes can only be made when imported with the video file importer.
Redo clip analysis	Discards the clip information and perform the clip analysis again. Performing the analysis again will clear all information, such as labels and comments.
Open clip folder	Opens the clip location in Explorer.

4.2.5 Tool

Restart preset analysis	Discards the clip information in the preset and performs the clip analysis again. Performing the analysis again will clear all information, such as labels and comments.	
Browser options	Opens the options screen where you can change the browse screen settings.	
	(See 4.6 Browser Options [▶ 28])	
Player options	Opens the options screen where you can change the player screen settings.	
	(See 5.9 Player Options [▶ 54])	
Launch information file editor	Launches a tool where you can edit the contents of an information file.	
	(See 6 Information File Editor [▶ 67])	

4.2.6 Help

Help	Displays the User's Manual (this document).
	Displays the license ID, activation-related information, and version information. If you have any questions about this software, please contact us with your license ID.

4.3 Search Condition

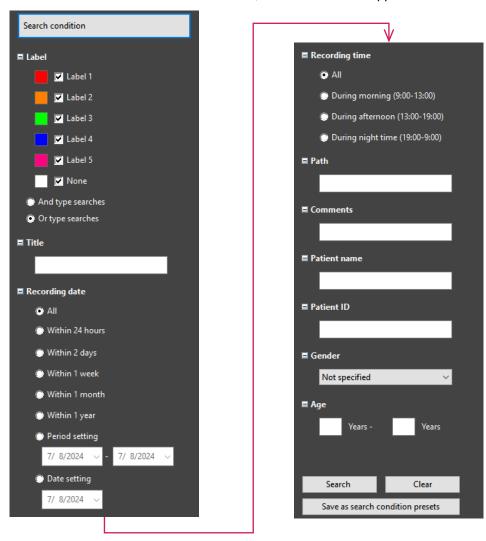
4.3.1 Searching

You can filter the clips to be displayed by adding search conditions.

By setting a search condition and clicking "Search", only the clips that match the condition will be displayed. To clear the search condition, click "Clear".

You can choose between AND and OR searches for label combinations.

For combinations other than label combinations, an AND search is applied.



Example 1:

· Search condition

Check label 1 and label 2 and select "Or type searches"

- Search results Only clips set to label 1 or label 2 are displayed.

Example 2:

· Search condition

Check label 1 and select "Within 24 hours"

- Search results

Only clips that are set to label 1 and recorded within 24 hours are displayed.

Note

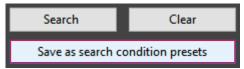
• You can change a label name from "Tool" - "Browser options" - "Browser window" - "Label" (see Labels [▶ 35]).

4.3.2 Registering as a search preset

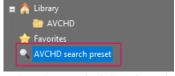
You can register clip search conditions as a preset.

If you register search conditions as a preset, you can always display a list with the same search conditions.

1. Set search conditions in the same way as a normal search, and then click "Save as search condition presets".



2. A screen will appear prompting you to enter a preset name. Set the name. The registered search preset is added to the preset list on the left side of the screen.



If the search content needs to be changed, delete it and then create the preset again.

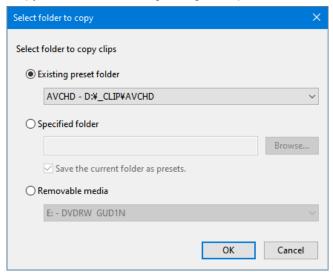
4.4 Copying a Clip

Copies the selected clip to the specified folder.

You can also copy to an existing preset folder.



When you click the copy button, the following dialog box opens.

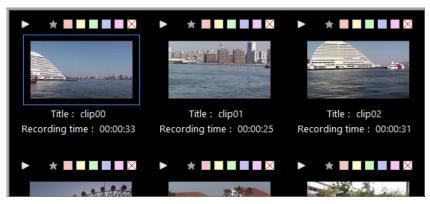


Existing preset folder	Copies the clips into a folder set to an existing preset.	
	Attention	
	If the password set when "AES256" is selected in the MIR-1 information file encryption settings is different from the password set in the copy destination preset, data cannot be recovered. If necessary, select "Specified folder" and copy it to another folder.	
Specified folder	Copies clips to the specified folder.	
	Once the copy is complete, it is possible to register it as a new preset.	
Removable media	If removable media is attached to the computer, you can copy the clips to the removable media.	

4.5 Display Clip

There are 6 clip view modes: "Icon view", "Thumbnail list view", "Report view", "Calendar view (month)", "Calendar view (day)", and "Calendar report view".

4.5.1 Icon view



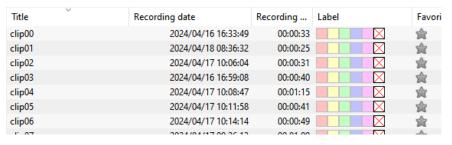
When you click the thumbnail resize button, a slider is displayed, so you can change the thumbnail view size to any size.



4.5.2 Thumbnail list view



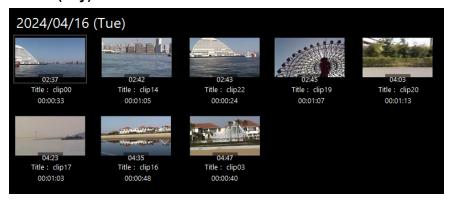
4.5.3 Report view



4.5.4 Calendar view (month)



4.5.5 Calendar view (day)



4.5.6 Calendar report view

Title	Recording date	Recording	Label	Favorites
2024/04/19				
clip13	2024/04/19 11:45:23	00:00:40		俞
clip23	2024/04/19 10:32:37	00:01:16		食
clip12	2024/04/19 10:02:22	00:00:36		食
clip11	2024/04/19 10:01:45	00:00:58		俞
2024/04/18				
clip15	2024/04/18 09:34:23	00:01:07		俞
clip18	2024/04/18 08:45:26	00:00:48		俞
clip21	2024/04/18 08:42:10	00:01:21		俞
clip01	2024/04/18 08:36:32	00:00:25		俞

4.5.7 Labels

You can set a label for each clip.

Labels can be searched from the search screen, so they can be freely set for classifying clips and other purposes.

The label is set with the colored button in the upper right corner of the clip.

When you click the button with the label color you want to set, the button changes to a dark color.

Click the button again to remove the label.

If you want to remove all the labels at once, click the red cross on the white background on the far right.

Also, the color of the label can be changed from the options.



4.5.8 Favorites

You can set a clip as a favorite.

If you set a clip as a favorite, it will be displayed under "Favorites" in the preset list.

Set favorites with the ☆ button at the top right of the clip.

When you click the ☆ button, the button turns yellow.

Click the button again to remove the set favorite.



4.6 Browser Options

4.6.1 Preset setting

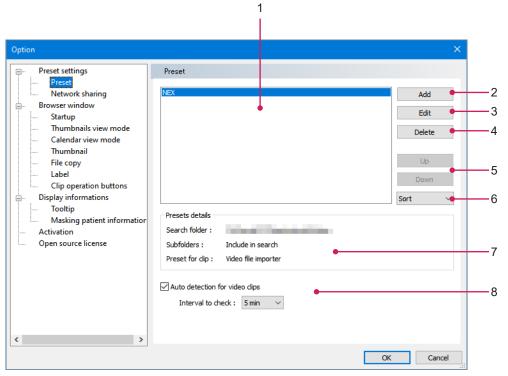
You can configure various settings for network sharing of presets and folders.

- Settings for adding, changing, and deleting presets (see Presets / Presets (network)
 28])
- Settings for network sharing of folders (see Network Sharing [▶ 29])

4.6.1.1 Presets / Presets (network)

Attention

• "Preset (network)" can only be set on MIR Browser when the network sharing function is enabled (see Network Sharing [▶ 29]).

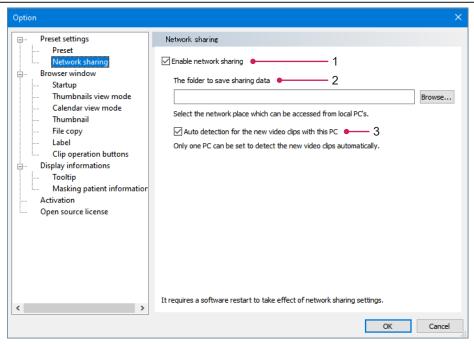


1.	Preset	Displays the list of presets.	
2.	Add	Adds presets.	
3.	Edit	Changes the settings for the selected preset.	
4.	Delete	Deletes the selected preset.	
5.	Up / Down	Changes the display order of the presets. Moves the selected preset up or down.	
6.	Sort	Reorders the display order of the presets according to the selected rule.	
7.	Presets details	Displays details of the selected preset.	
8.	Auto detection for video clips	By checking this setting, a check is performed to see if there are any new clips in the specified folder at regular intervals.	

4.6.1.2 Network Sharing

Attention

• MIR Browser LE does not support this function.



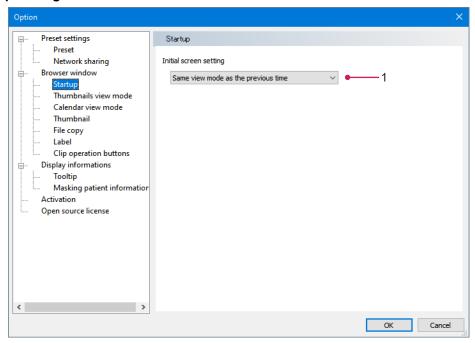
1.	Enable network sharing	g Enables or disables the network sharing function.	
2.	The folder to save sharing data	Specifies the folder on the network that can be accessed from other computers.	
3. Auto detection for the Check this box if you want to automatical control of the control of th		Check this box if you want to automatically detect new clips.	
	new video clips with this PC	However, when using network sharing, limit the number of computers to be detected to one.	

4.6.2 Browse screen

You can configure various display settings for the browse screen.

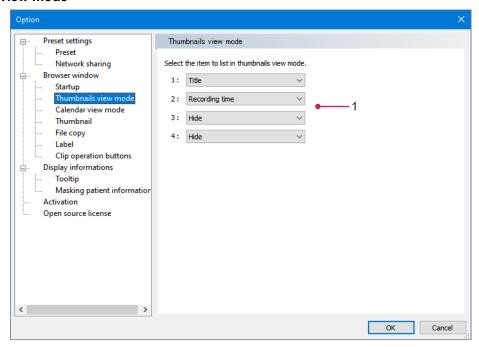
- Settings related to the display at startup (see Startup settings [> 30])
- Settings related to the display in icon view mode (see Icon view mode [31])
- Settings related to the display in calendar view mode (see Calendar view mode [▶ 32])
- Settings related to the display of thumbnails (see Thumbnails [33])
- Settings related to the processing during file copying and folder creation when files are copied (see File copy [▶ 34])
- Settings related to label colors and names (see Labels [35])
- Settings related to operation buttons displayed on the right side of the screen (see Clip operation buttons [> 36])

4.6.2.1 Startup settings



1. Initial screen setting Sets the view mode when the software starts.

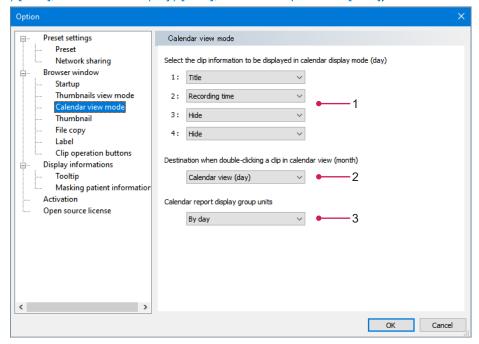
4.6.2.2 Icon view mode



1. Select the item to list in When in icon display mode, you can select the information to be thumbnails view mode. displayed below the icon (see Icon view [▶ 25]).

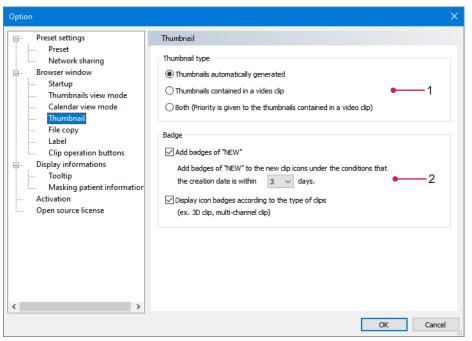
4.6.2.3 Calendar view mode

You can set clip information to be displayed in calendar view mode (see Calendar view (month) [▶ 26], Calendar view (day) [▶ 26], Calendar report view [▶ 26]).



1.	Select the clip information to be displayed in calendar display mode (day)	When in Calendar view (day) mode, you can select the information to be displayed below the icon.
2.	Destination when double-clicking a clip in calendar view (month)	When in Calendar view (month) mode, you can select the destination when double-clicking a clip.
3.	Calendar report display group units	When in calendar report view mode, you can select the group unit to be displayed.

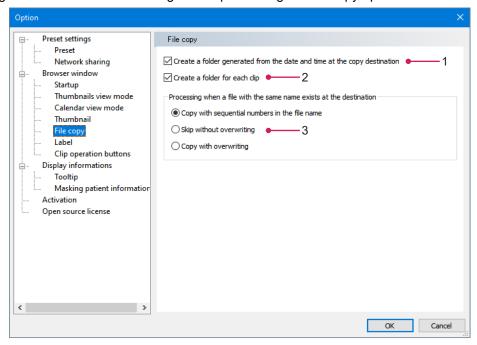
4.6.2.4 Thumbnails



1. Thumbnail type	Selects the display type of clip thumbnails.
	Thumbnails automatically generated Displays thumbnails automatically generated from each scene in the clip.
	Thumbnails contained in a video clip Displays still images included as clip meta information, such as chapters. (Whether a clip includes chapter information depends on the product)
	Both (Priority is given to the thumbnails contained in a video clip) Displays a mix of thumbnails automatically generated from still images and videos included in the clip.
2. Badge	Displays an icon badge on the thumbnail indicating the status of the clip.

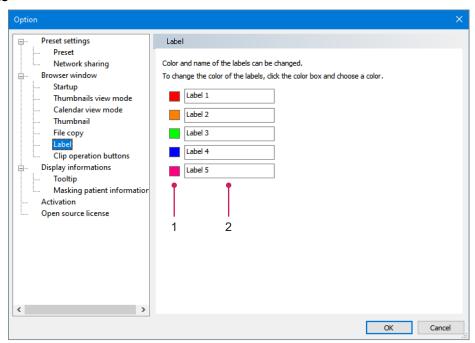
4.6.2.5 File copy

Configure the folder and file settings when performing the file copy operation.



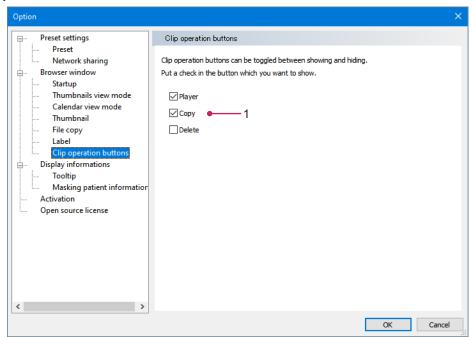
1.	Create a folder generated from the date and time at the copy destination	Creates a folder with a name generated from the date and time the copy operation was performed in the folder specified as the output destination, and copies the file into the folder.
2.	Create a folder for each clip	Creates a folder for each clip and copies the file into the folder.
3.	Processing when a file with the same name exists at the destination	Specifies what happens when a file with the same name exists in the copy destination.
		Copy with sequential numbers in the file name A sequential number is assigned to the file name. Both files will remain.
		Skip without overwriting Skips the file copying without overwriting it. The original file remains.
		Copy with overwriting Overwrites the file. The newly copied file remains.

4.6.2.6 Labels



	Sets the color of labels. If you click on the colored square part of each label, a color selection dialog box will be displayed.
1	You can change the name of labels. The label names set here are displayed in the search window on the browse screen.

4.6.2.7 Clip operation buttons



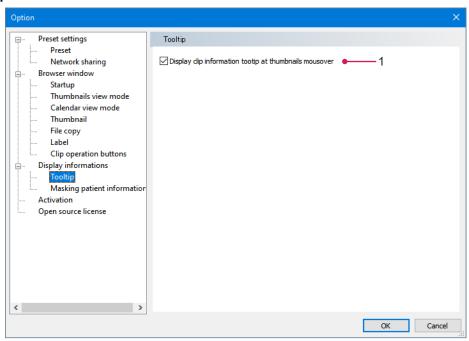
1. Clip operation buttons Shows or hides the clip operation buttons on the right side of the screen.

4.6.3 Information display

You can configure the tooltip display for clip information and the masking settings for patient information.

- Tooltip display settings (see Tooltips [▶ 37])
- · Masking settings for patient information in the information display area and tooltip display (see Masking patient information [▶ 38])

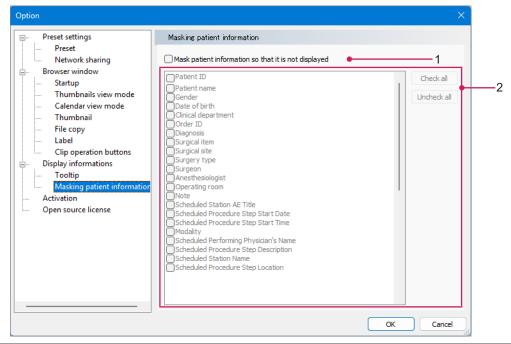
4.6.3.1 Tooltips



1. Display clip information tooltip at thumbnails mousover

Sets whether to display the clip information tooltip when hovering over a clip on the browse screen.

4.6.3.2 Masking patient information



1.		Masks patient information so that it is not displayed in the information display area or tooltips.
2.	, · · · · · · · · · · · · · · · · · · ·	Select the items in which masking is to be applied.
	gender, etc.	"Check all" will select all items.
		"Uncheck all" will clear all selected items.

4.6.4 Activation

Updates the activation key.

Updates the MIR Browser or MIR Browser LE activation key file.

4.6.5 Open source license

Displays the open source software licenses used in this software.

5 Player Screen

5.1 How to Open the Player Screen

Select the clip you want to play or edit from the clip list on the browse screen, then click the "Player" button.



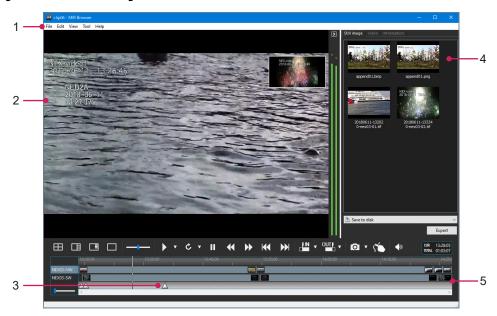
The player screen opens.



Note

• The player also opens by double-clicking the clip or selecting "Open in player" from the menu displayed by right-clicking on the clip.

5.2 Player Screen Layout



1.	Player screen menu	(See 5.6 Player Screen Menu [▶ 50])
2.	Preview screen	Displays a preview of the recorded video.
		(See 5.3 Preview Screen [▶ 41])
3.	Chapter marks	The still image capture positions are displayed as chapters.
4.	Recording information	Displays additional information on recorded video.
	screen	(See 5.4 Recording information screen [▶ 44])
5.	Timeline operation screen	View recorded images, capture still images, and perform annotation operations.
		(See 5.5 Timeline Operation Screen [▶ 48])

5.3 Preview Screen

The preview screen displays a preview of the recorded video.



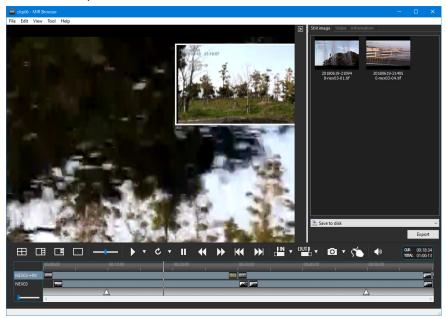
1		By clicking this button, you can collapse the recording information
	for recording information	screen and expand the preview screen. Clicking it again will re-
	screen	display the recording information screen.
2	. Audio level meter	Displays the audio level.

Note

• If there are multiple channels in the recording, they will be displayed on the picture-in-picture screen. By clicking on the picture-in-picture screen, you can switch the main display screen. The display layout can be changed by using the layout change button.

5.3.1 Digital zoom

On the preview screen, you can enlarge part of the image by using a combination of keyboard and mouse operations.



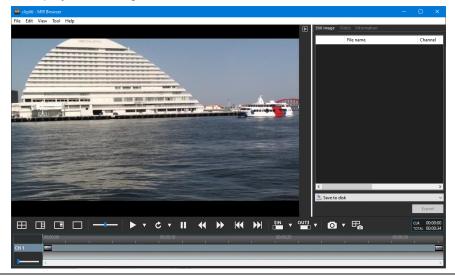
Zooms in and out of the preview screen. It cannot be smaller than the size of the preview screen.
Grabs the preview and moves the display area. If the display is zoomed in, you can move the display area.

5.3.2 One-eye image display of 3D recorded images

When the recorded video is recorded in 3D, only one-eye images can be displayed on the preview screen.



Select "Left screen only" or "Right screen only" from "Preview 3D" in the "View" menu to extend and display either image.



Note

- Compatible 3D formats are Side by Side and Top and Bottom.
- 3D recorded images are not automatically detected.

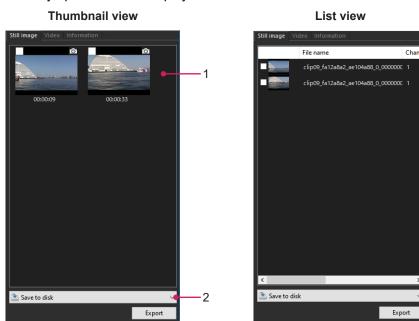
5.4 Recording information screen

The recording information screen is a screen that displays additional information on recorded images.

It consists of 3 tab pages: "Still image", "Video" and "Information".

5.4.1 Still image tab

The "Still image" tab is a screen for managing still images included in the recording and still images created by operations on the player screen.



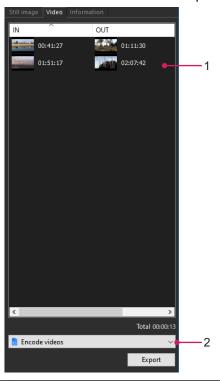
1.	<u> </u>	Displays still images included in the recording and still images created by operations on the player screen.
2.	• • • • • • • • • • • • • • • • • • •	Performs export processing to the exporter, such as "Save to disk", for still images that have been checked.

Note

• When you right-click within the "Still image" tab, a menu is displayed, and you can switch display modes, rearrange still images, and display them in the viewer.

5.4.2 Video tab

The "Video" tab is a screen for managing IN/OUT sections to export any part of a video included in a recording. The IN/OUT sections can be set independently for each channel.



1.	IN/OUT section	Displays a list of IN/OUT sections specified for the video.
		This list only shows a list of channels that are currently selected.
2.	• • • • • • • • • • • • • • • • • • •	Performs export processing for the selected video according to the exporter, such as "Encode videos".

Note

• If you right-click in the "Videos" tab, a menu will be displayed, and you can manage the IN/OUT

5.4.3 Information tab

The "Information" tab is a screen for checking information such as patient information included in records and video recording formats.



5.4.4 Saving still images

5.4.4.1 Save to disk

You can save selected still images to any location.

- Select a still image and click the "Export" button.
 A dialog box for specifying the save destination appears.
- 2. Specify the save destination in the dialog box and click "OK." The still image is saved.

Note

• For still image saving settings, select "Tool" - "Player options" from the menu, then select "General settings" - "Still image capture" on the options screen (see Save still images [> 58]).

5.4.5 Saving a video

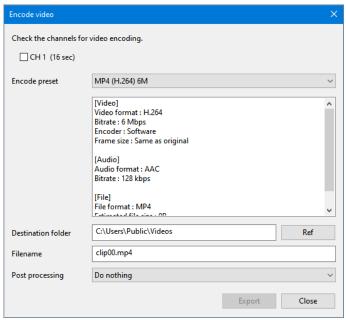
5.4.5.1 Encoding videos

The specified IN/OUT section is cut out as a separate file or encoded into another file format.

Attention

- MIR Browser LE does not support this function.
- 1. Select the IN/OUT section and click the "Export" button. The "Encode video" window appears.

2. On the "Encode video" screen, set the channel, preset, etc. for video output, and then click the "Export" button.



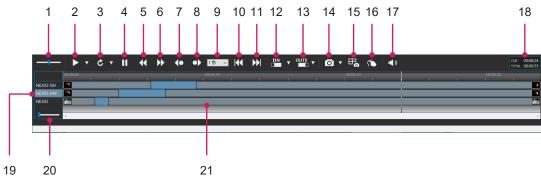
A dialog box will appear showing the progress.

If you want to interrupt the encoding process, click "Abort."

When the progress reaches 100%, a "Confirm" message is displayed. Click the "OK" button to complete the encoding and saving process.

5.5 Timeline Operation Screen

In the timeline operation screen, you can view recorded images, capture still images, and perform operation on annotations.



19	20	21
1.	Speed control slider	You can control the playback speed from -16x to 16x by dragging the knob.
2.	OUT coefford	Starts playback.
		Playback is started only for the IN/OUT sections.
3.	Repeat playback /	Starts repeat playback.
	Repeat playback for IN/ OUT sections	Repeat playback is started only for the IN/OUT sections.
4.	Pause	Pauses playback.
5.	Rewind and play	Rewinds and performs playback. Each time you click the button, the speed changes between 2x, 4x, 8x, and 16x.
6.	Fast forward playback	Performs fast forward playback. Each time you click the button, the speed changes between 2x, 4x, 8x, and 16x.
7.	Jump forward	Jumps forward from the current cursor position for the specified amount of time.
8.	Jump backward	Jumps backward from the current cursor position for the specified amount of time.
9.	Specify jump time	Specifies the time range for jumping back and forth.
10.	Jump to previous mark	Jumps from the current cursor position to either the previous mark position, the beginning of the file, or the end of the file.
11.	Jump to next mark	Jumps from the current cursor position to either the next mark position, the beginning of the file, or the end of the file.
12.	Set IN point / Change IN	Sets the IN point to the current cursor position.
	point to current position	Sets the IN point of the IN/OUT section that exists at the current cursor position to the current position.
13.	Set OUT point / Change	Sets the OUT point to the current cursor position.
	OUT point to current position	Sets the OUT point of the IN/OUT section that exists at the current cursor position to the current position.
14.	Save still images / Capture still images on	Creates still images. The created still images are saved in the selected channel.
	channel N / Capture still	Creates still images of channel N.
	images of all channels	Creates still images of all channels.
15.	Save the preview as a still image	Saves the image displayed in the preview as a still image.
16.	Toggle annotation function	Enables or disables the annotation function.
17.	Volume	Changes the audio volume. The mute operation can also be performed from this button.

18. Record time information	The time for the entire recording (TOTAL) and the time at the cursor position (CUR) are displayed.
19. Timeline label	You can switch between selected channels by clicking on each channel.
	You can select multiple channels simultaneously by holding down the "Ctrl" key on the keyboard while clicking.
20. Timeline slider	You can change the magnification of the timeline by moving the slider.
21. Timeline	You can change the playback position by moving the cursor to any location.

5.6 Player Screen Menu

5.6.1 File

5.6.2 Edit

Undo	Performs undo on IN/OUT operations, etc.
Redo	Performs redo on IN/OUT operations, etc.
Сору	Copies the selected still image to the clipboard.
	You can paste it to other software via the clipboard.
Select all	Selects all still images in the list.

5.6.3 View

Preview layout	Changes the layout of the preview screen.
Preview 3D	Switches to displaying only one eye of 3D recorded images.
Full screen	Displays the preview in full screen.
Recording information	Toggles between showing and hiding the recording information screen.
Mask view	Toggles the mask view.

5.6.4 Tool

Player options	Display the Options screen.
Mask preset settings	Displays the mask preset settings screen.
Annotation	Enables or disables the annotation function.

5.6.5 Help

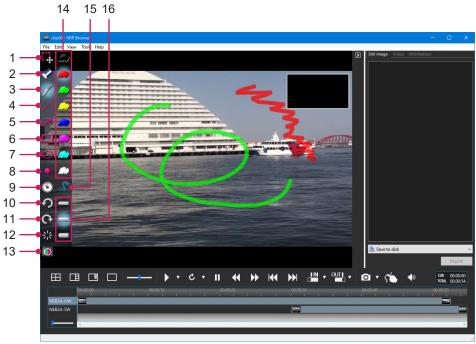
Help Displays the User's Manual (this document).	
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5.7 Annotation

Annotation is a function for freely drawing shapes, curves, etc. on the preview screen.

The annotation function is enabled by selecting "Tool" - "Annotation" from the menu or by clicking the annotation button on the timeline operation screen.

A still image with the drawing of the annotation combined with the preview is created in the file created by saving the preview still image while displaying the annotation.



4 Calcation to al	Calasta an annatation abiast
1. Selection tool	Selects an annotation object.
2. Eraser tool	Deletes an annotation object.
3. Freehand curve tool	Draws a freehand curve.
4. Line tool	Draws a straight line.
5. Arrow tool	Draws an arrow.
6. Rectangle tool	Draws a rectangle.
7. Ellipse tool	Draws an ellipse.
8. Point tool	Draws a point.
9. Auto erase tool	When auto erase is turned on, the drawn object will automatically disappear within a fixed period of time.
10. Undo	Performs undo on the annotation operation.
11. Redo	Performs redo on the annotation operation.
12. Clear all	Clears all annotation objects.
13. Highlight	Highlights the area bounded by the rectangle tool or ellipse tool. The area bounded by the freehand tool will not be highlighted.
14. Color tool	Selects the drawing color for annotation objects.
15. Semi-transparent tool	When the Semi-transparent tool is turned on, annotation objects are drawn translucently.
16. Line thickness tool	Selects the line thickness for annotation objects.

5.8 Mask View

The mask view is a function that colors a part of the screen so that personal information etc. are not displayed.

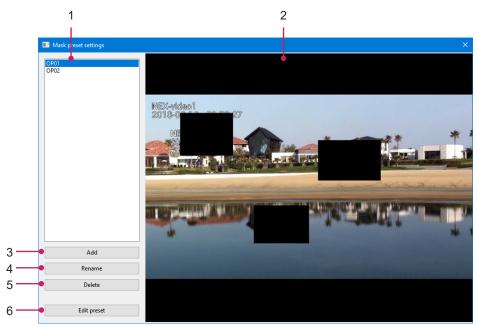
Attention

• MIR Browser LE does not support this function.

By creating a mask preset in advance, you can switch the mask view on/off simply by selecting it from the menu.

5.8.1 Mask preset settings

To create a mask preset, select "Mask preset settings" from the "Tool" menu. On the mask preset settings screen, you can check, create, and edit mask presets that have already been created.

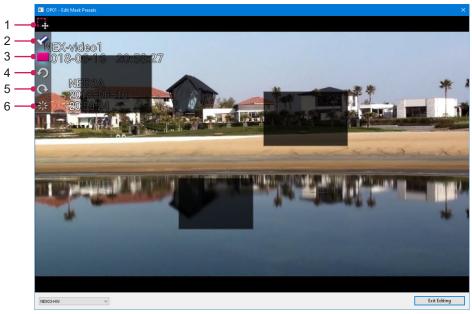


1.	List of mask presets	Displays the list of mask presets that have already been created. By switching selections with a mouse click, an image reflecting the contents of the mask preset is displayed in the preview on the right.
2.	Mask preview	Displays a preview image with the mask preset applied.
3.	Add	Registers a new mask preset.
		When the name input screen is displayed, set an arbitrary name and click "OK".
4.	Rename	Renames the selected mask preset.
5.	Delete	Deletes the selected mask preset.
6.	Edit preset	Edits the contents of the selected mask preset.

To finish setting mask presets, click X in the upper right corner of the screen.

5.8.2 Editing mask presets

On the mask preset settings screen, select "Edit preset" to switch to the preset editing screen.

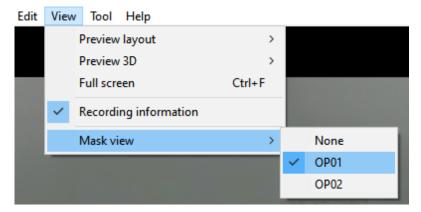


1.	Selection tool	Selects the mask object.
2.	Eraser tool	Deletes the mask object.
3.	Mask tool	Draws a mask.
4.	Undo	Performs undo on the mask operation.
5.	Redo	Performs redo on the mask operation.
6.	Clear all	Clears all mask objects.

After editing the settings, click "Exit Editing" to save the settings.

5.8.3 Mask view

You can show or hide the masks created by the mask preset settings from "View" - "Mask view" in the menu.



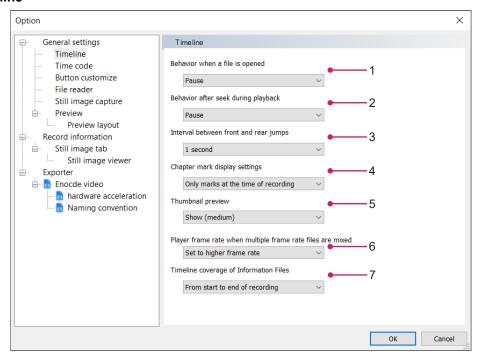
5.9 Player Options

5.9.1 General settings

You can configure settings for playback, saving, and various displays on the player screen.

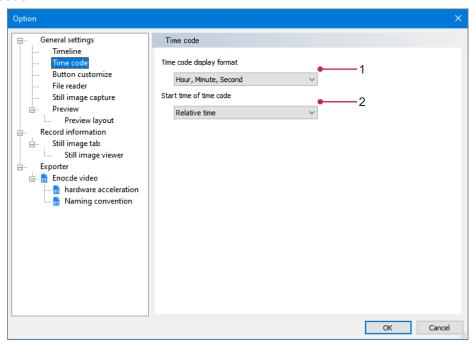
- Settings related to the display of the timeline (see Timeline [> 54])
- Settings related to the timecode display (see Timecode [▶ 55])
- Settings related to buttons displayed on the timeline operation screen (see Button customization [▶ 56])
- Settings related to video playback (see File reader [▶ 57])
- Settings related to saving still images (see Save still images [▶ 58])
- Settings related to the display of previews (see Preview [▶ 59])

5.9.1.1 Timeline



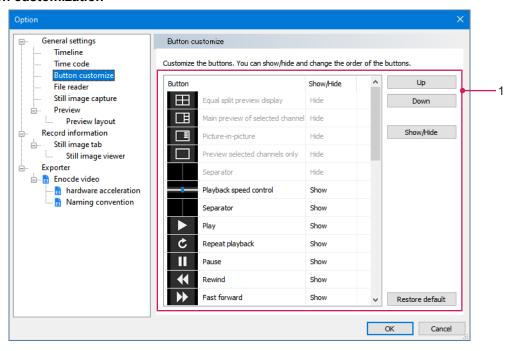
1.	Behavior when a file is opend	Selects whether to automatically start playback when the file is opened.
2.	Behavior after seek during playback	Selects what to do after moving the cursor during playback.
3.	Interval between front and rear jumps	Selects the jump time when you press the forward and backward jump buttons.
4.	Chapter mark display settings	Selects the type of still image to display chapter markers.
5.	Thumbnail preview	Selects whether to show a preview when hovering over the timeline.
6.	Player frame rate when multiple frame rate files are mixed	If multiple frame rate files are mixed, you can select whether to adjust the player to a higher or lower frame rate.
7.	Timeline Coverage of Information Files	Selects the timeline coverage of the information file.

5.9.1.2 Timecode



1.	Time code display format	Selects whether to set the time code display method to "Hour, Minute, Second" or "Hour, Minute, Second, Frame".
2.	Start time of time code	Selects whether to display the time code display on the timeline in relative time with time 0 at the beginning of the recording, or in absolute time using the actual time of the recording.

5.9.1.3 Button customization

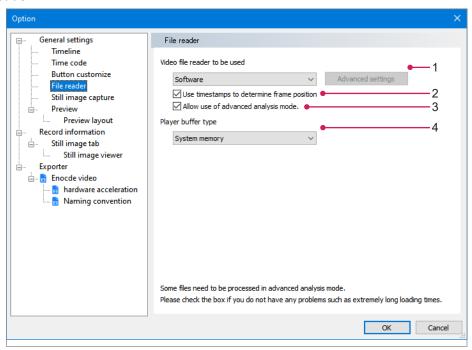


Customizes the buttons displayed on the timeline operation screen.

Select the customizable button on the left, switch the display with "Show/Hide", and set the display order with "Up" and "Down".

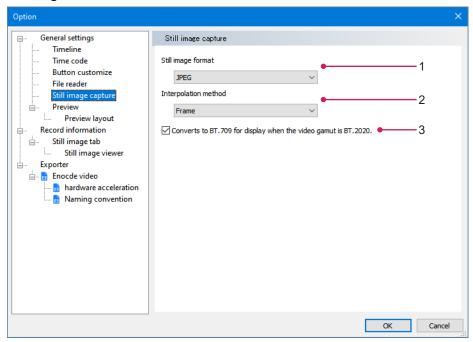
They are displayed in order starting with the buttons at the top of the button customization list, and from left to right on the timeline operation screen.

5.9.1.4 File reader



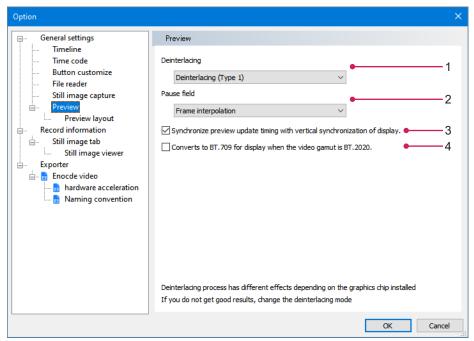
1.	Video file reader to be used	Selects the type of file reader to use when playing videos. If hardware acceleration is available, compatible hardware will be
2.	Use timestamps to determine frame position	displayed as an option. Sets whether to use a time stamp to determine the frame position. If the frame rate is not constant and the display is unnatural during video playback, turn it off.
3.	Allow use of advanced analysis mode.	Allows the operation of analyzing and reading files in detail during video playback. This does not need to be changed in most cases.
4.	Player buffer type	Selects the type of video buffer used by the player. It affects memory usage and CPU usage.

5.9.1.5 Save still images



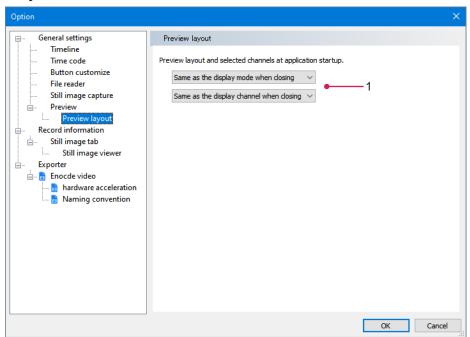
1.	Still image format	Selects the file format for creating still images.
2.	Interpolation method	Selects the method for interpolating between fields when capturing still images from interlaced video.
3.	Converts to BT.709 for display when the video gamut is BT.2020.	If the color gamut of the video is BT.2020, a still image is created after converting to the BT.709 color gamut.

5.9.1.6 Preview



1.	. Deinterlacing	Selects the deinterlacing processing method. Enables or disables deinterlacing.
		As a general rule, use this setting with the default value "Deinterlacing (Type 1)". If there is a problem with the image quality when displaying interlaced images, please change to another option.
2.	Pause field	Selects the type of picture in the preview that appears when paused.
3.	. Synchronize preview update timing with	Updates the timing of each frame during playback to match the display refresh timing.
	vertical synchronization of display.	This does not need to be changed in most cases.
4.	Converts to BT.709 for display when the video gamut is BT.2020.	If the color gamut of the video is BT.2020, the preview is displayed after converting to the BT.709 color gamut.

Preview layout

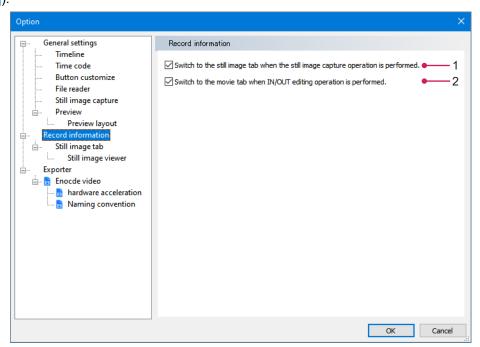


1. Preview layout and selected channels at application startup.

When the recording is played back, the software starts with an arbitrary preview layout and selected channel displayed.

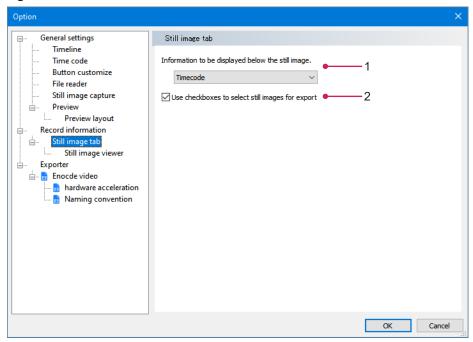
5.9.2 Recording information

You can configure the settings to switch between the still image tab and video tab. You can also configure the display settings on the still image tab (see Still image tab [**>** 62]).



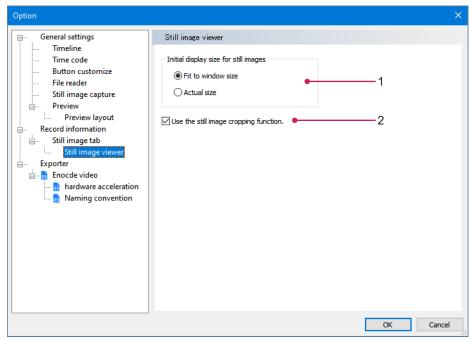
	1.	When capturing still images on the timeline, the tab on the recording information screen is switched to the still image tab.
	2.	When IN/OUT settings are performed on the timeline, the tab on the recording information screen is switched to the video tab.

5.9.2.1 Still image tab



1.	Information to be displayed below the still image.	Select items to be displayed as text information below still images in the still image tab screen.
2.		Use the check box to select still images when exporting from the still image list. If you do not use the check box, use the file selection state.

Still image viewer



 Initial display size for still images 	Sets the display size for still images when the still image viewer is opened.
•	Sets whether to use the cropping function to save a selected rectangle within the still image viewer as a separate file.

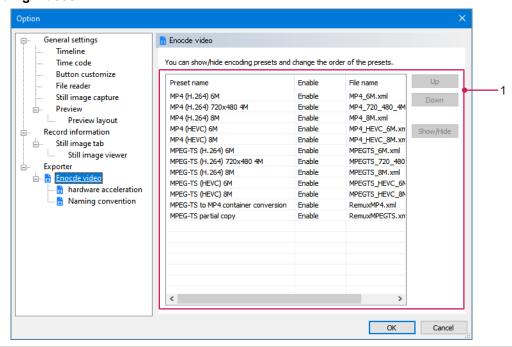
5.9.3 Exporter

You can configure the display during video encoding, the use of hardware acceleration, and the naming convention for file names (see Encoding videos [> 64]).

Attention

· MIR Browser LE does not support this feature, so the exporter will not be displayed.

5.9.3.1 Encoding videos



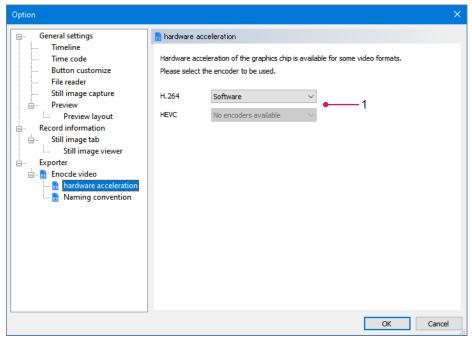
1. Encoding preset

You can enable/disable the encoding presets that are displayed when encoding videos and change the order in which they are displayed.

Select the preset you want to change the order of and move the display order with the "Up" and "Down" buttons.

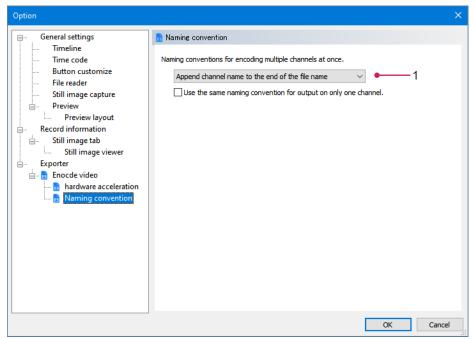
To hide a preset from the list, click the "Show/Hide" button and set it to "Disable."

Hardware support



1. H.264/HEVC For H.264 and HEVC encoding, high speed encoding with Intel Quick Sync Video or NVIDIA NVENC is possible when compatible hardware is installed. Please select the hardware you want to use.

File naming conventions



1. Naming conventions for encoding multiple channels at once.

Selects naming conventions to avoid duplicate names when encoding multiple channels simultaneously.

Also, sets whether to apply the same naming convention when encoding with only one channel.

6 Information File Editor

This is a tool for editing information files of data recorded with MIR-1.

Information files are included in recorded data exported from MIR-1 to external storage. The file extension is ".ccx".

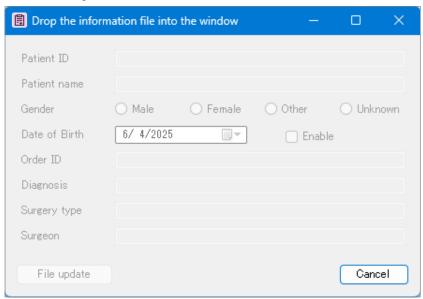
6.1 Starting the info file editor

Select "Launch information file editor" from the "Tool" menu.

6.2 Editing information files

Select the information file you want to edit in Explorer and drop it into the information file editor window.

If "AES256" is selected in the MIR-1 information file encryption settings, a password must be entered when reading the file.



The contents of the information file are analyzed and the information entered at the time of recording is displayed.

Edit the item you want to edit and click "File update".

Appendix

How to Launch the Software from the Command Line

To integrate with other software, you can launch this application from the command line using one of the following parameters to open a specific clip.

- · Patient ID: -finder patientid [Patient ID]
- Title: -finder title [Title]
- Patient Name: -finder patientname [Patient Name]
- · Preset: -preset [Preset]

Note

· You cannot specify multiple conditions at the same time.

Example:

To launch MIR Browser and open the clip with Patient ID "12345678" (assuming MIR Browser is installed in "C:\Program Files\EIZO\MIR Browser")

C:\Program Files\EIZO\MIR Browser\MIRBrowser.exe -finder patientid 12345678

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