

KOWA SL-19 plus

KOWA SL-19 App



Instruction Manual



Other Operation

The KOWA SL-19 App is an application software used for the capture, display and recording of images using the camera version of the KOWA SL-19 hand-held slit lamp (SL-19 plus). Please purchase the SL-19 plus prior to using this application.

For information on how to use the SL-19 plus and associated precautions, kindly refer to the SL-19 plus instruction manual.

This document describes how to use this application. Please note that these instructions are written under the assumption that you are familiar with the iPad mobile device on which the application is installed.

After installing the application, kindly refer to the "KOWA SL-19 plus Instruction Manual" included with the device for the initial connection settings.

This application software is not classed as a Medical Device. Displayed/Recorded imaging data (including enlarged images) are for reference use only. Diagnosis should only be made by direct visual inspection through the SL-19 plus.

Operation of this application does not normally cause damage to the SL-19 plus, however if you experience any abnormality during use, kindly contact us or your Kowa distributor immediately.

Operating environment of this application

This application is for the iPad series running iPadOS operating system software version 15.4 or later.

Disclaimer

Kowa Company shall not be liable for accidents caused by the iPad Mobile Device on which this application is installed.

Kowa Company can not be held responsible for any damage such as data corruption or loss of data on the iPad Mobile Device due to the use of this application.

When using the data sharing function, please ensure that the data being shared is sent to the correct destination. Kowa Company can not be held responsible for any damage caused when sharing data.

This document is based on information accurate as of the copyright date.

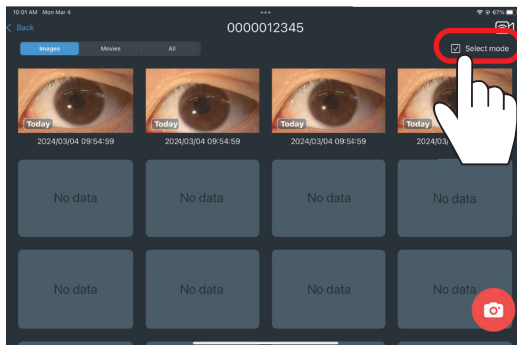
Recommended operating environments, functions, etc. are subject to change without notice. Please note that the contents of this document may differ.

The application operates using a one-to-one wireless LAN connection with the SL-19 plus. Recorded images may be transferred to other personal computers, devices etc... When connecting to a network using the sharing function, kindly ensure that cybersecurity is present.

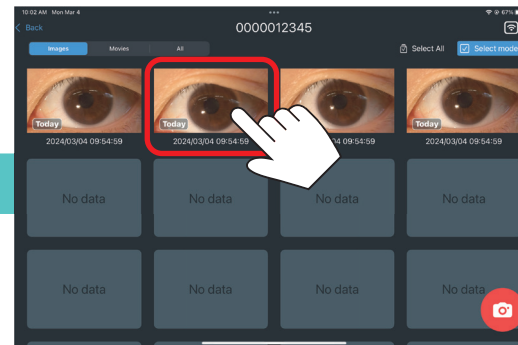
1 Deleting Images

Caution  Images cannot be recovered once deleted. Please ensure that all required images have been exported and successfully saved to your local device.

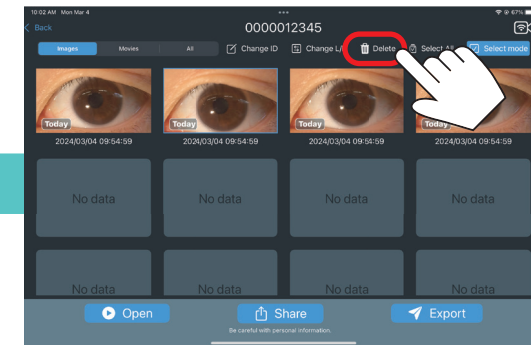
*The original order of images may differ if edits have been made.



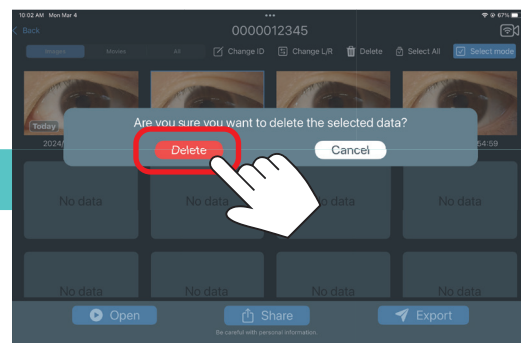
Tap "Select Mode".



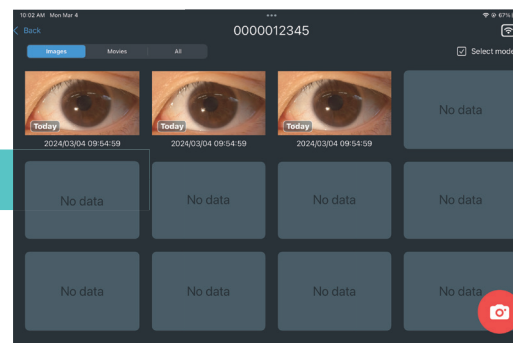
Select the image to be deleted.



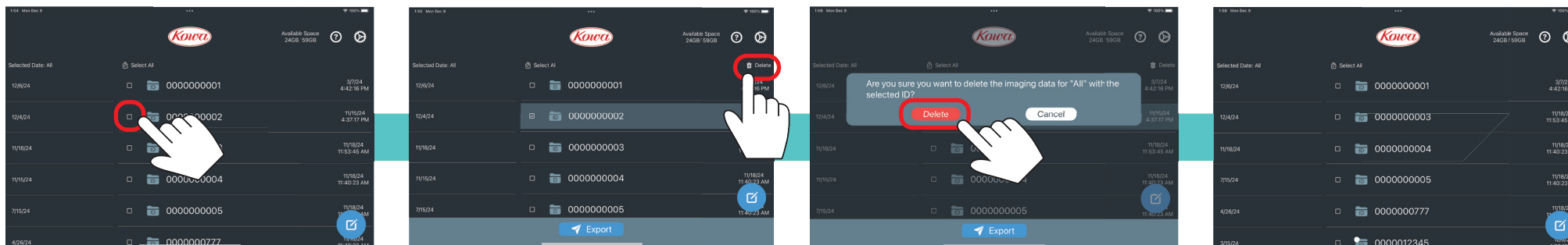
Tap "Delete".



Tap "Delete" to remove the selected image.



2 Deleting an ID Folder



Select the "check box" next to the ID Folder you wish to delete.

Tap "Delete".

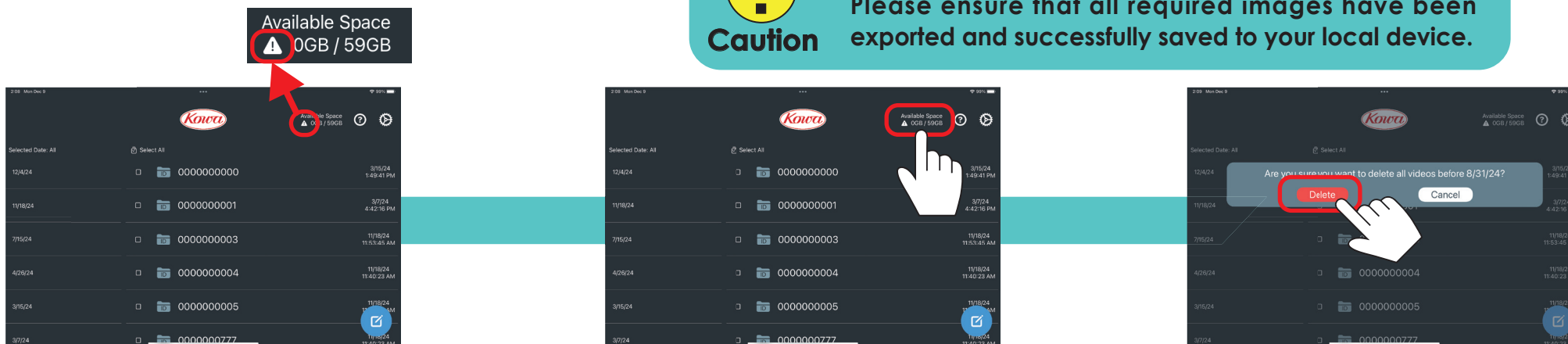
Tap "Delete" to remove the selected ID Folder.

3 Bulk deletion (for when available storage is running low)



Caution

Images cannot be recovered once deleted.
Please ensure that all required images have been exported and successfully saved to your local device.

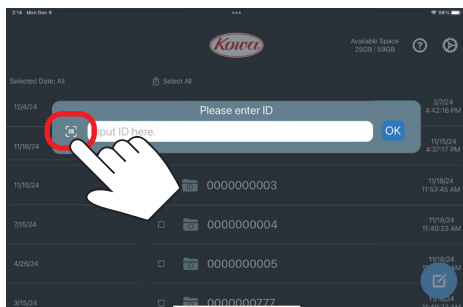


When available storage is below the required threshold, an alert warning will be displayed.

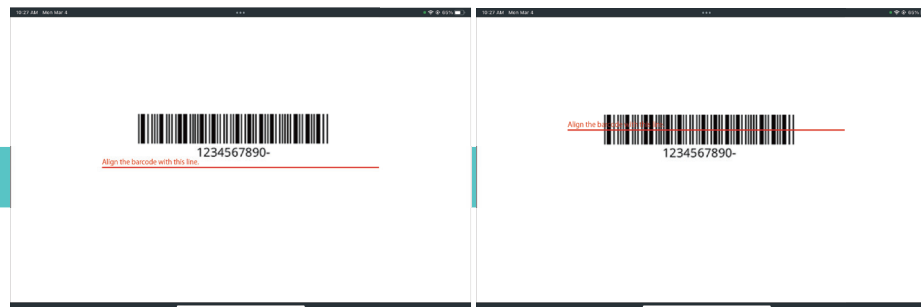
Tap "Available Space" to select files for deletion.

Tap "Delete" to delete imaging data taken before the specified number of days.

4 Barcode ID input

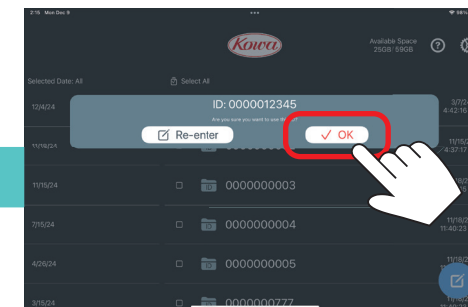


Tap the "Barcode" button.



✗ The red line and barcode are misaligned ✓ Red line overlapped with barcode

When the barcode reading screen opens, overlay the barcode on the red line.



Review the imported barcodes.
Once you have confirmed they are correct, tap "✓ OK".



POINT

<What characters can be used in IDs>

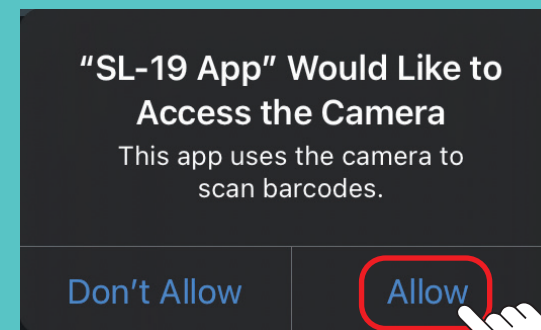
* Character types that can be used in IDs
Alphanumeric uppercase and lowercase letters and - (hyphen)
These are NOT case sensitive.

Example : sl-19 → SL-19



Caution

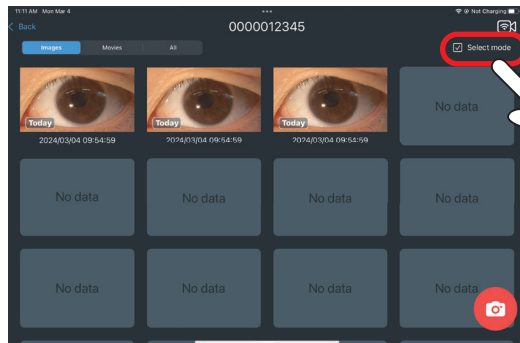
When the "Barcode Input" button is selected for the first time, a pop up message will be displayed requesting access to the camera. Tap "Allow".



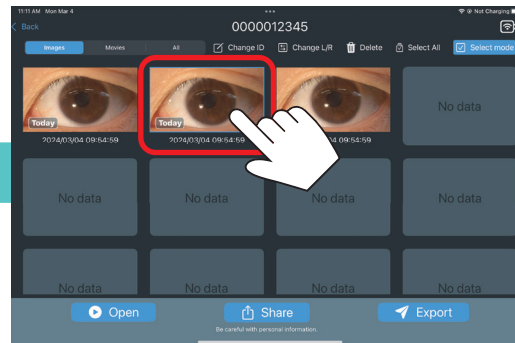
5 Changing ID

Please use this function when a mistake has been made in the ID of the recorded or saved image.

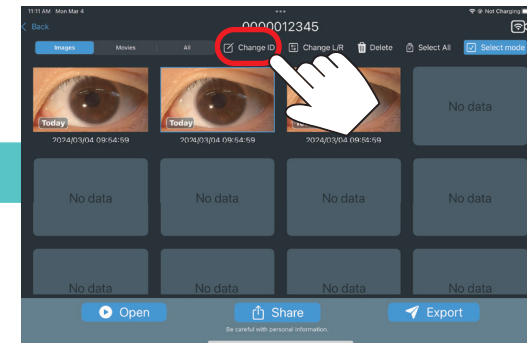
*The original order of images may differ if edits have been made.



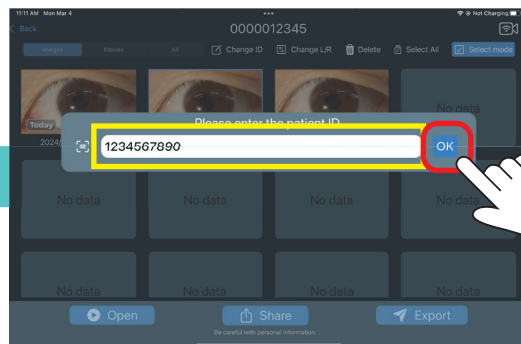
Tap "Select Mode".



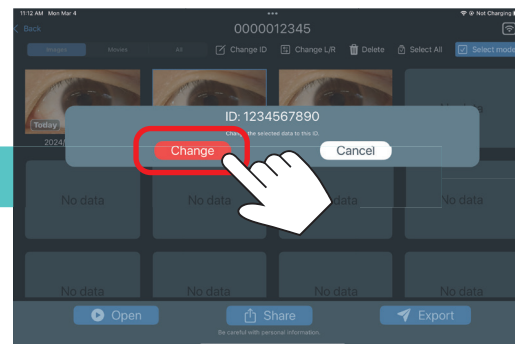
Tap the image to change ID.



Tap "Change ID".



Enter the corrected ID, tap "OK".

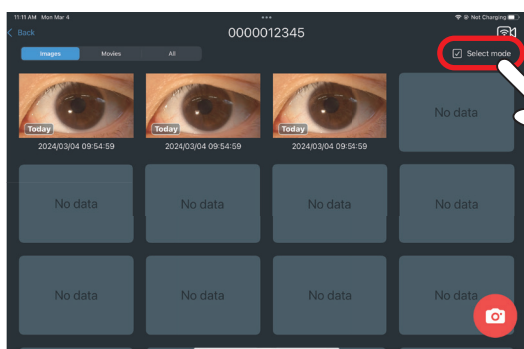


Confirm the entered ID, then tap "Change".

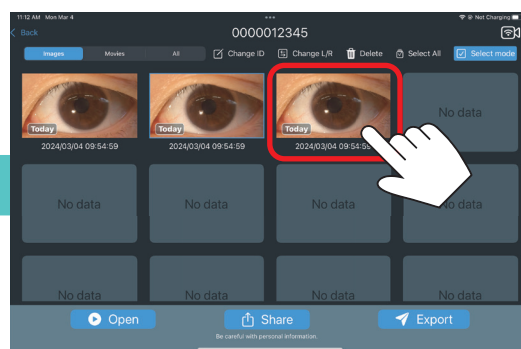
6 Changing left and right eye information

Use this information when adding left and right eye information to a image saved from a video that contains images of both left and right eyes.

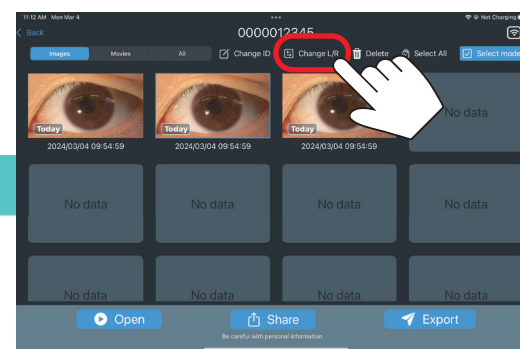
*The original order of images may differ if edits have been made.



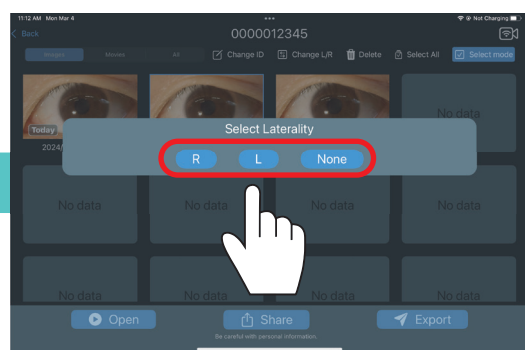
Tap "Select Mode".



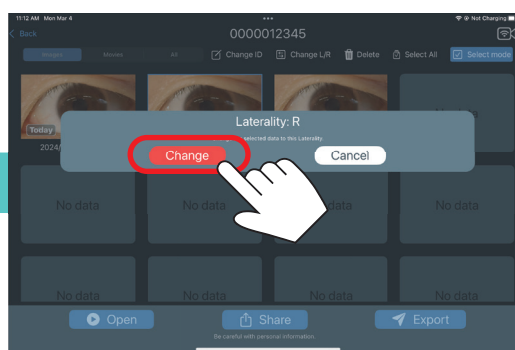
Tap the image to be changed.



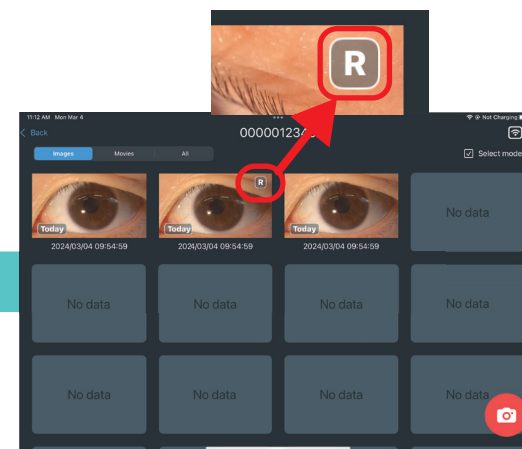
Tap "Change L/R".



Tap "R", "L", or "None".



Tap "Change ID".

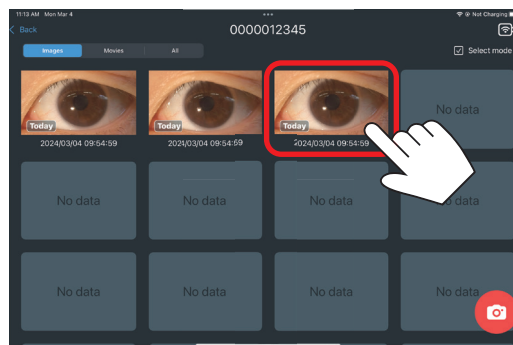


An icon will appear to indicate a change has been made.

7 Browsing through images

For IDs that have multiple images saved, selecting any image will display that image.

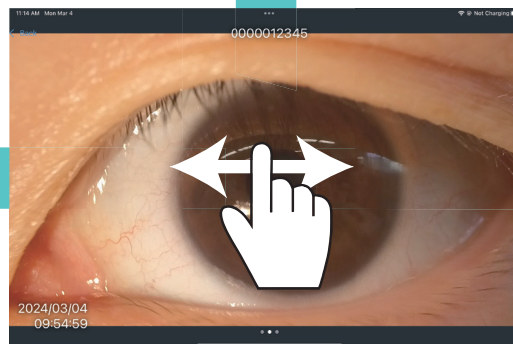
While displaying an image, you can view images within the same ID in order by swiping the screen left or right.



Tap the image you wish to view.



Swipe right to see the previous image.



Swipe left or right on the screen.

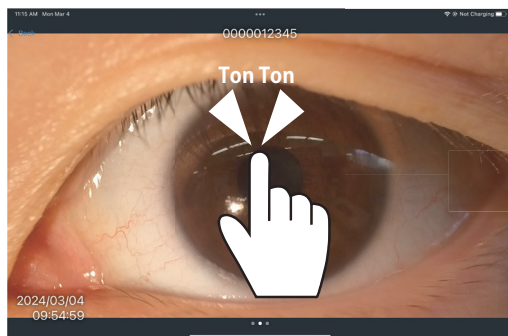


Swipe left to see the next image.

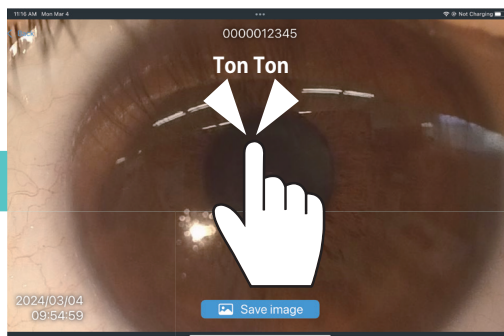
8 Enlarging, shrinking, and moving images

Double-tap to zoom in by 2x or 5x.

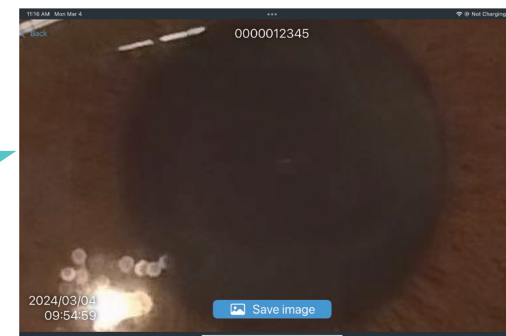
Adjust magnification between 1x and 5x by pinching in/out.



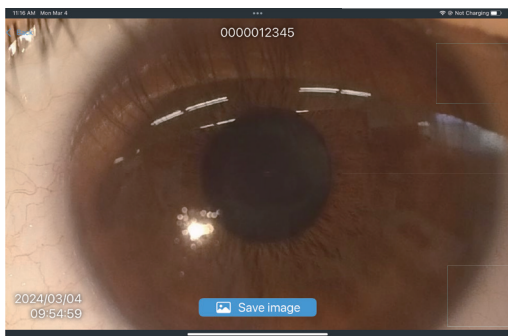
Double-tap on the screen to enlarge the image by 2x.



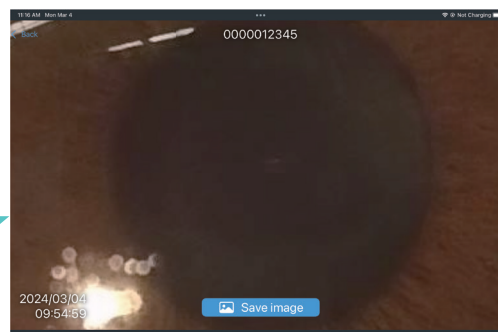
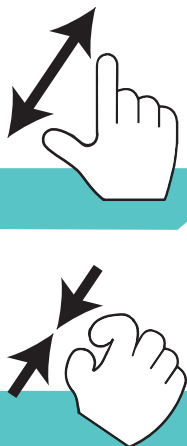
Double-tap on the magnified screen.



The original image is magnified 5x.



Pinch in/out on the screen.

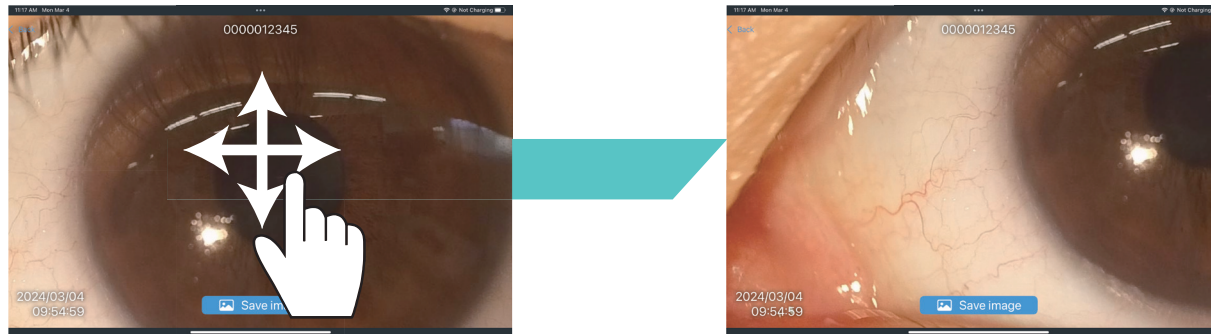


Pinch out to enlarge the image.



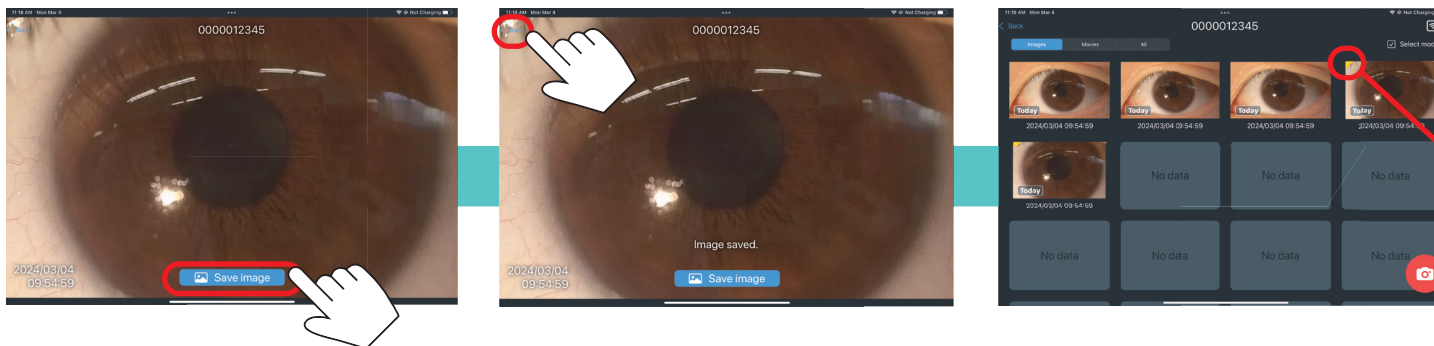
Pinch in to shrink the image.

Once enlarged, move around the image by swiping the screen.



9 Saving enlarged images

The enlarged view of an image can be saved.



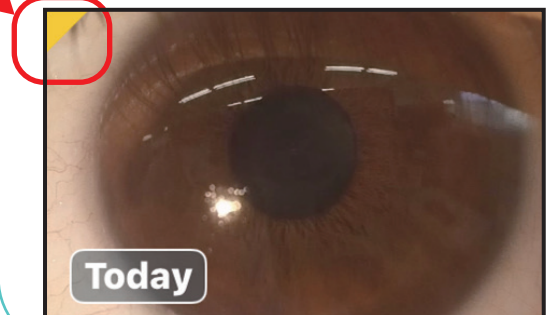
Tap "Save Image" to save the enlarged image currently displayed on your screen.

Tap "Back" to return to the still image main menu.

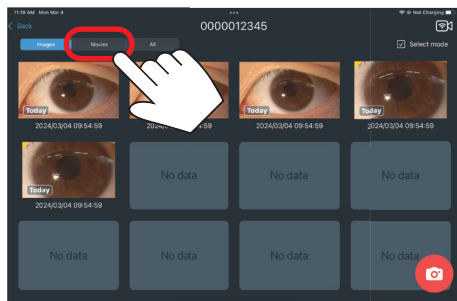


POINT <Enlarged save mark>

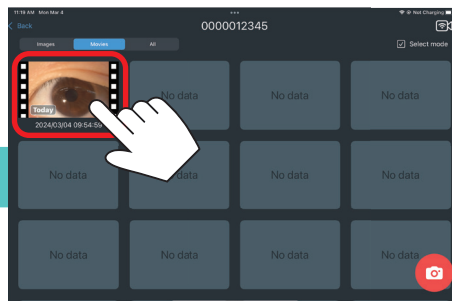
Upon saving an enlarged view image, the thumbnail will display the "enlarged save mark" as shown.



10 Video Display



Tap the "Video" tab.



Select the file you wish to display.

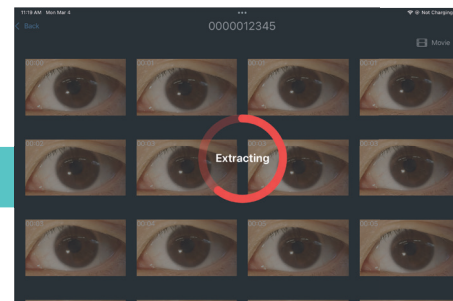
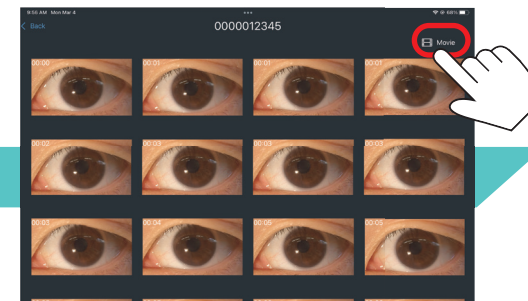


Image extraction.

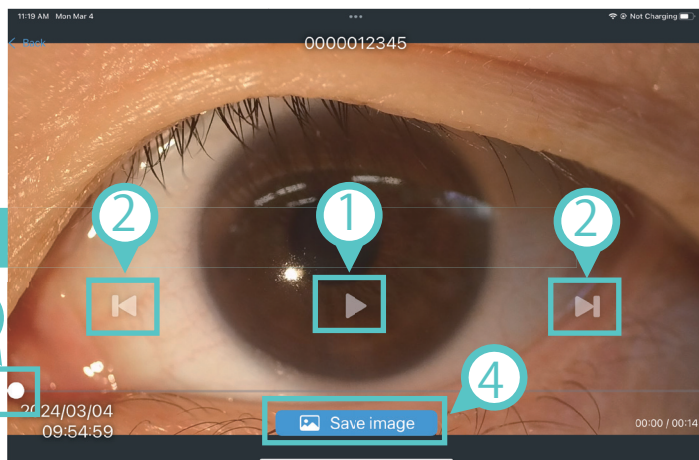


Tap the "Video" button.



POINT

Tap the screen to interrupt image extraction.



Movie playback screen will be displayed.

1

Start / Stop.

2

Frame forward/backward.

3

Slide to adjust the playback position.

4

Saves the displayed frame as an image.

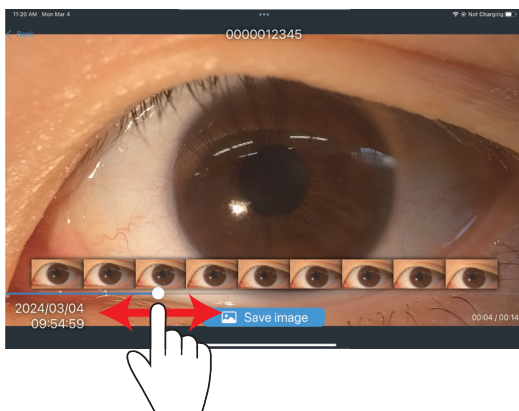


POINT

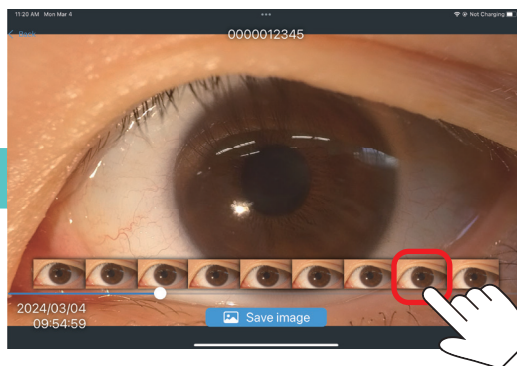
<Zoom in, zoom out, and move while displaying images.>

Pinch in / out of the image to adjust it to any magnification (1x to 5x).
(Refer to p.9)
Swipe the magnified image to move the image.
(Refer to p.10)

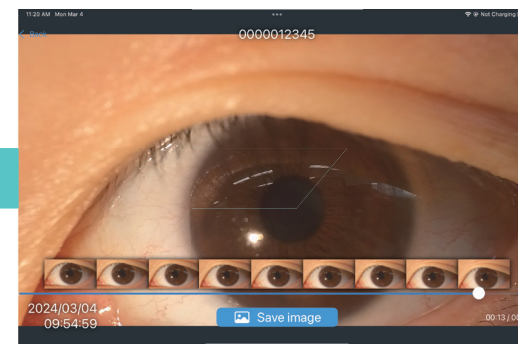
11 Video Display _ Seek Function



Slide to adjust the playback position.
Whilst sliding, image thumbnails will be displayed at regular intervals.

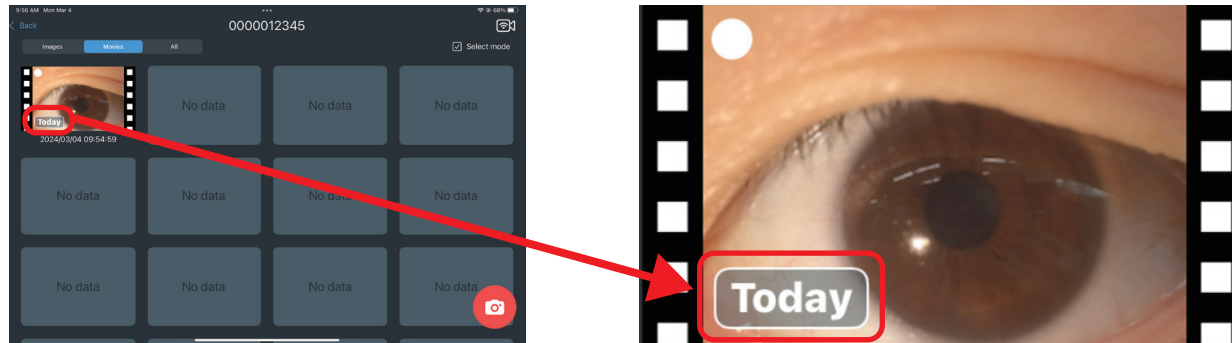


Tap the image thumbnail to display the selected image.

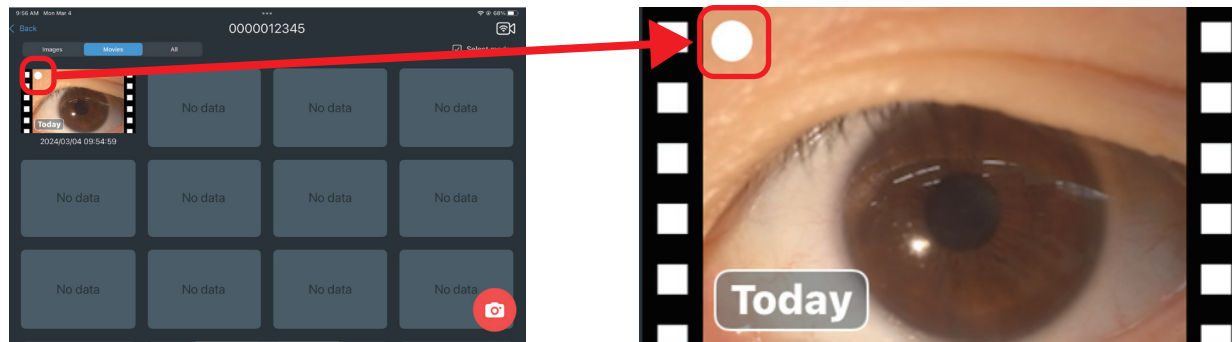


12 Today "Mark" and "Unedited" Video mark

Still Images/Videos that have been saved on the current day, are marked with a "Today" mark in the data list screen.



For videos that have not yet been saved, a "mark of unedited video" is displayed in the data list screen. Please be careful not to forget to save your records. If you exit without saving, files cannot be restored.

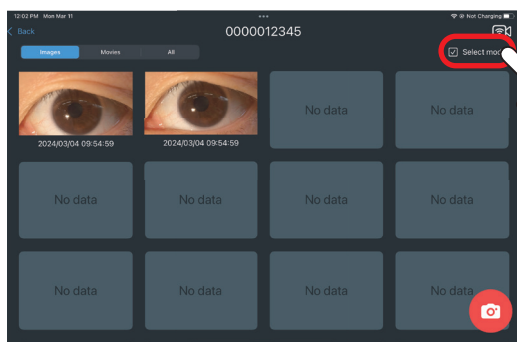


13 Sharing Data

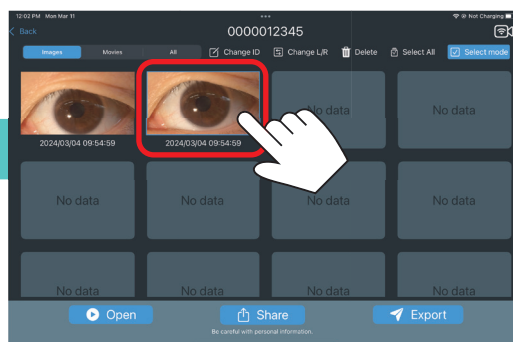
It is possible to share recorded imaging data with external devices.

However, some Apps and functions will not be displayed to prevent accidental transmission.

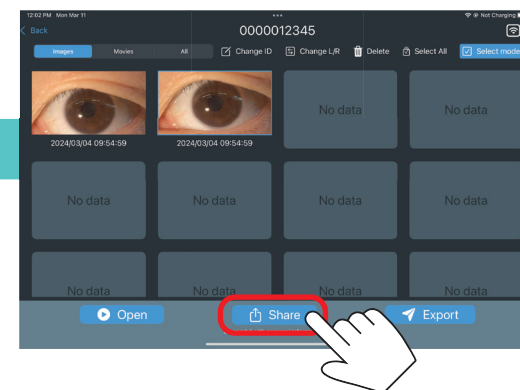
! Caution Please be careful when handling recorded imaging data as they may contain personal information.



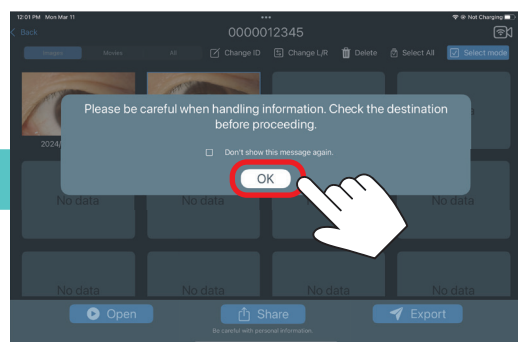
Tap "Select Mode".



Tap the image you want to share.

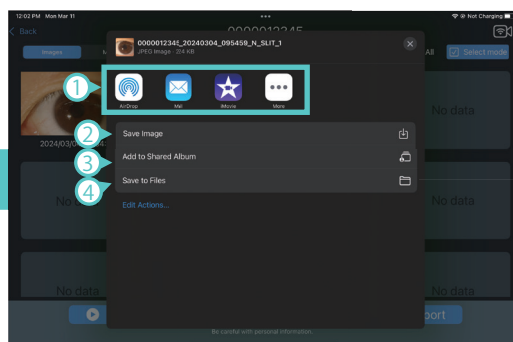


Tap "Share".



A warning pop-up message will be displayed. Tap "OK" to agree and continue.

If enabling the "Don't show this message again" checkbox, this message will not be shown again.



Select the method you wish to use to share the file.

- 1 Compatible Apps are displayed.
The file is saved to the destination specified.
File names may change during saving.
Some settings may need to be adjusted in advance (depending on the selected App).
- 2 "Save Image" (when an image is selected), "Save Video" (when a video is selected)
The file will be saved in "Photos" on your local device.
File names may change during saving.
- 3 "Add to Shared Album"
The file will be stored on the iCloud online service.
File names may change during saving.
- 4 "Save to Files"
The file will be saved to a selected destination.
The file name is added in this App.

For the specifications of the file names added by this App, please refer to the "Export Data Specification" chapter of the other manuals "Export function: Wired LAN" or "Export function: Wireless LAN."



Technology for Life Science



World Sales Headquarters

4-14, Nihonbashi-honcho 3-chome, Chuo-ku, Tokyo 103-8433, Japan

Phone : +81(3)3279-7639

Facsimile : +81(3)3279-7673

E-mail : life@kowa.co.jp

URL : <https://www.kowa.co.jp/e-life/>

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