i·PRO

Smartphone application

i-PRO Mobile APP

Operation Guide V10.0

The illustration of screens in this document are of the Android application edition and used as examples.
They may be different from the actual screens.

Preface

Outline

i-PRO Mobile APP is a smartphone application that makes possible to view videos from/in the following i-PRO devices. (Hereinafter referred to as this app)

- Network Camera (Hereinafter referred to as camera)
- Network Interface Unit (Hereinafter referred to as encoder)
- Digital Disk Recorder (Hereinafter referred to as recorder)
- Network Disk Recorder

For further information about compatible devices, refer to the website of this app.
https://i-pro.com/global/en/surveillance/products/security-viewer

Viewing of live video from a camera or playback of video in a recorder will become available by connecting with 3G/4G/5G/LTE line or wireless LAN (Wi-Fi).

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IN NO EVENT SHALL i-PRO'S TOTAL LIABILITY TO YOU FOR ALL DAMAGES(OTHER THAN AS MAY BE REQUIRED BY APPLICABLE LAW IN CASES INVOLVING PERSONAL INJURY) EXCEED THE AMOUNT OF FIFTY DOLLARS($50.00). THE FOREGOING LIMITATIONS WILL APPLY EVEN IF THE ABOVE STATED REMEDY FAILS OF ITS ESSENTIAL PURPOSE.

Table of Contents

Preparation of i-PRO Mobile APP

Installation

Install this app from Google Play or App Store on your smartphone or tablet PC.

App name: i-PRO Mobile APP

Supported OS: Android™ OS 7.0 or later

                iOS 11.0 or later

Start up

Tap to start up this app installed on your smartphone or tablet PC.
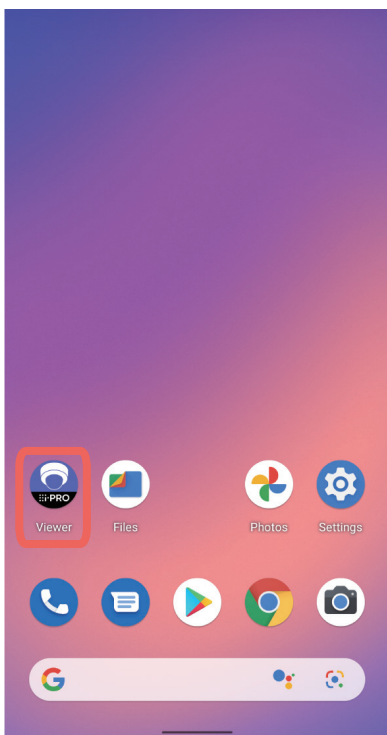
Registration of device information

First of all, registration of a camera or a recorder to be connected with is required to use this app.

Note
- For number of cameras or recorders that can be registered, refer to "Specifications" (☞ page 38).

When this app is started up for the first time, the following screen will be displayed.
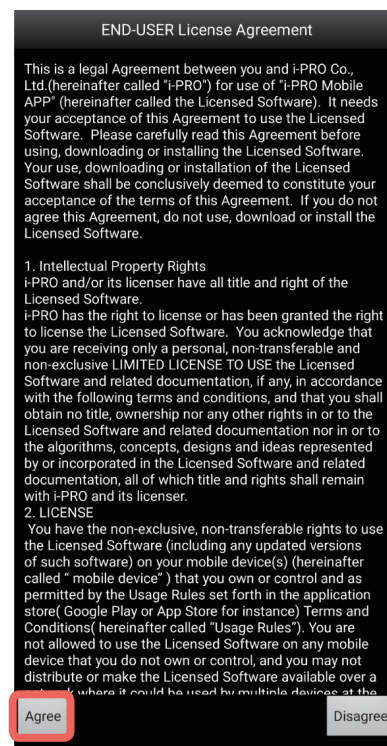
1 **Tap [Agree].**

⇒ The "Device Setting" screen will be displayed.

2 **Tap** ⊕ **.**

⇒ The "Device Registration" screen will be displayed.

Preparations

Registration of device information (continued)

3 **Tap each item and complete the settings.**

Refer to "Setting item list" on the right for each setting item.

4 **When completed all items, tap [Set].**

Setting item list

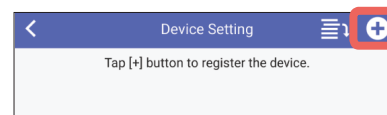| Item	Setting content
Name	Enter a name of up to 16 characters to be displayed on this app. Example: i-pro recorder (Available characters: Alphanumeric characters, 1-byte symbols)
Device Type	Select the type of the device to be registered. Recorder/ Camera/ Encoder/ Camera(ONVIF)
Address	Depending on the connection environment, "Address" is to be configured as follows. **When using via the Internet[1]:** Enter the URL of DDNS[2] being set to the device to be registered or the global IP address of the router. **When using within the local network:** Enter the local IP address of the device to be registered.
Port Num	Enter the HTTP port number (0 to 65535) or the HTTPS port number (0 to 65535) of the device to be registered. **When using while setting "SSL communication" to "On" or "On (Video & Setting data)"** Configure the HTTPS setting on the device to be registered in advance. For further information including how to set up, refer to the operating instructions of each device.
SSL	Select a method to communicate with the device to be registered from the following. **When "Camera" or "Encoder" is selected for "Device Type":** Off/ On **When "Recorder" is selected for "Device Type":** Off/ On (Setting data only)/ On (Video & Setting data)
CH	This will be displayed when "Encoder" is selected for "Device Type". Enter a CH (channel) of the encoder to be displayed.
User name	Enter the user name registered in the device.
Password	Enter the password registered in the device.

Registration of device information (continued)

Item	Setting content
Live Setting	Configure the image capture size and the frame rate for live video stream. Refer to page 7, 8 for further information.
Playback Setting	This will be displayed when "Recorder" is set for "Device Type". Select a playback mode from the following. Transcode/ Normal/ Low Load (Default: Transcode) Refer to "Switch the settings for playback" (☞ page 24) for further information.

*1   When using via the Internet, set the port forwarding function of the router. Refer to the manuals provided with the router for further information.
      Automatic setting with the router is possible by setting the UPnp (auto port forwarding) of the camera to "On". (Only when a router supporting UPnp is in use)
      For how to configure, refer to the manual of the camera in use that is available to downloaded from the URL below.
      https://i-pro.com/global/en/surveillance/training-support/documentation-database-list#network_cameras

*2   Please use the DDNS service below.
      https://www.viewnetcam.com/ip_ddns/

Live video type

There are three types of live videos and available video and audio format are different depending on the live video type.

Live video from an independent camera

Live video being captured and sent from an independent camera.

What is an "independent camera"?

An "independent camera" is a camera that is independently registered in this app as "Camera" or "Encoder" for "Device Type".

Live video from a camera connected to a recorder (via recorder)

Live video being captured from a camera connected to a recorder and sent via the recorder.

What is a "camera connected to a recorder"?

A "camera connected to a recorder" is one of cameras connected to and registered in a recorder that is registered in this app.

Live video from a camera connected to a recorder (camera direct)

Live video being captured from a camera connected to a recorder and sent directly from the camera (not via the recorder).

Preparations

Registration of device information (continued)

Live stream settings

Streams that can be set vary depending on the live video type.
Refer to "Live video type" (☞ page 6) for further information.

1 **Tap [Live Setting].**

2 **Tap [Live stream settings].**

Setting for live video from an independent camera

Setting for live video from a camera connected to a recorder (via recorder)

3 **Set live streams.**

The following streams can be set.

- Live video from an independent camera: JPEG, Stream(1) to (4)
- Live video from a camera connected to a recorder (via recorder): JPEG, H.264/H.265
- Live video from a camera connected to a recorder (camera direct): JPEG only
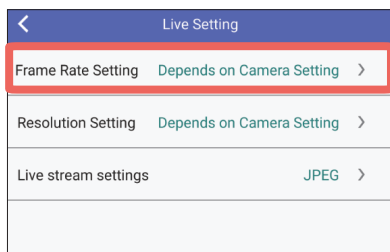
Preparations

Registration of device information (continued)

Frame rate setting

Set the frame rate for live video.
Tap [Live Setting] on the "Device Registration" screen. (☞ page 7)

1 Tap [Frame Rate Setting].

Important ☞
- When "H.264/H.265" or "Stream(1) - (4)" is set for "Live stream settings", the content of "Frame Rate Setting" cannot be changed. When the frame rate setting cannot be changed, videos will be distributed at the frame rate set on the device.
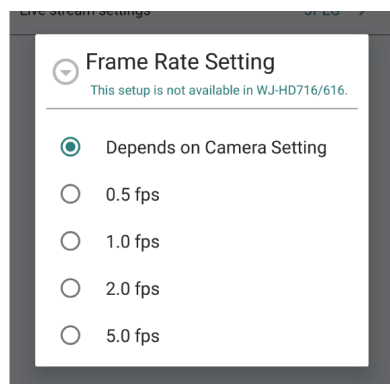
2 Set the frame rate.

Select a frame rate from the following.

Depends on Camera Setting*/ 0.5 fps/ 1.0 fps/ 2.0 fps/ 5.0 fps
*Videos will be received at the frame rate set on the camera.

Resolution setting

Set the resolution of live video.
Tap [Live Setting] on the "Device Registration" screen. (☞ page 7)
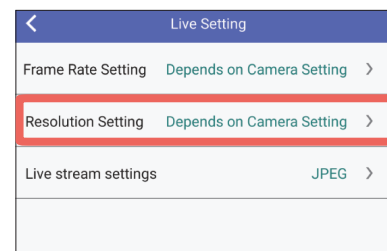
1 Tap [Resolution Setting].

Important ☞
- When "H.264/H.265" or "Stream(1) - (4)" is set for "Live stream settings", the content of "Resolution Setting" cannot be changed. When "Resolution Setting" cannot be changed, videos will be distributed at the resolution set on the device.
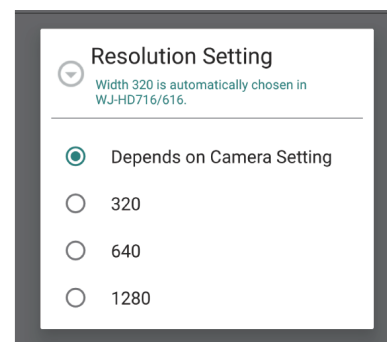
2 Configure the resolution setting.

Select a resolution from the following.

Depends on Camera Setting*/ 320/ 640/ 1280
*Videos will be received at the resolution set on the camera.

8

Operations

Check live video

Check live video from an independent camera or a camera connected to a recorder.
To check live video, switch between the camera list screen and the live screen.

| Note | ● The number of access users will be restricted if checking live video using this app. Refer to "Specifications" (☞ page 38) for further information about the maximum number of concurrent access users. |

Camera list screen (Live)

List screen of independent cameras

List screen of cameras connected to a recorder

① **(Update)**
The thumbnail image* will be updated to the latest.
* Thumbnail image: Image on the left side of the camera name in the camera list.

② **Title**
Video type (Live/Play) and a registered device name will be displayed.
However, in case of an independent camera, only "Camera" will be displayed instead of the registered device name.

③ **(Switch between Camera/Recorder)**
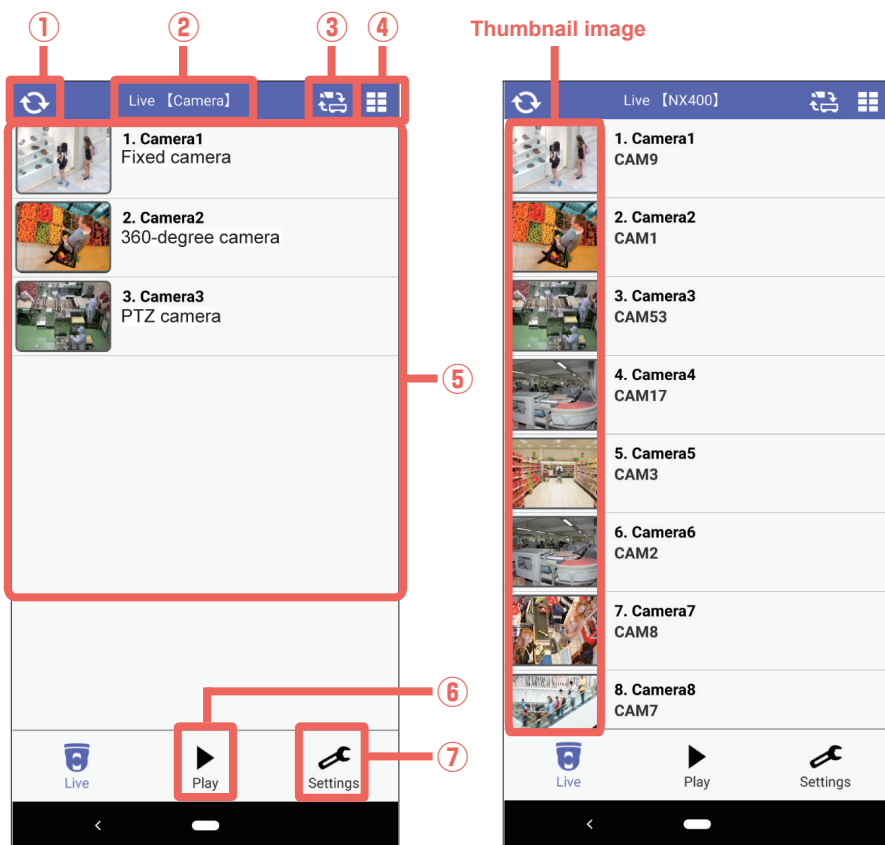Switches between the list screen of independent cameras and the list screen of cameras connected to a recorder.

④ **(Switch to a multi display)**
Switches from the camera list display to a multi display.

⑤ **Camera list**
The connected cameras will be displayed in a list form.
When a camera in the list is tapped, the live screen (☞ page 10) of the selected camera will be displayed.

⑥ **(Play)**
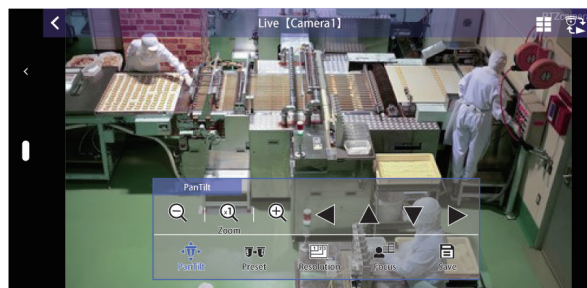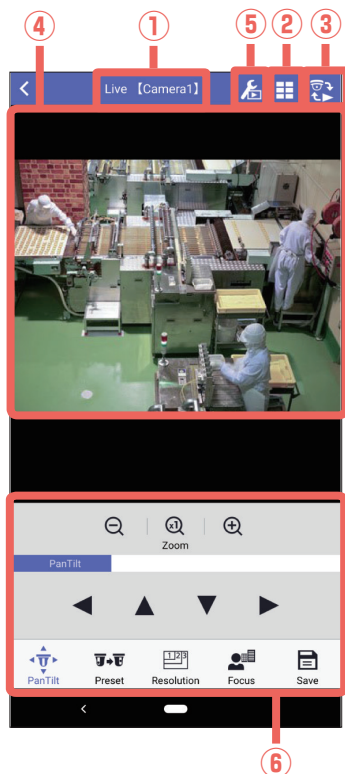The screen will be switched to the camera list screen (☞ page 16) of playback.

⑦ **(Settings)**
The "Settings" screen (☞ page 29) will be displayed.

Operations

Check live video (continued)

Live screen

In case of the horizontally wide screen (control panel is hidden)

In case of the horizontally wide screen (control panel is displayed)

Control panel on the horizontally wide screen

When the △ mark at the lower center of the screen is tapped, the control panel will be displayed.

When the control panel is being displayed, tapping a point outside the control panel will hide the control panel.

① **Title**

The registered device name will be displayed.

② ▦ **(Switch to a multi display)**

The screen will be switched to a multi display (6 Screens/8 Screens). Refer to "Switch to a multi display" (☞ page 14) for further information about the multi display.

> **Note**
> ● Refer to "Set a multi display [Multi Display Setting]" (☞ page 32) for the setting of number of screens for the multi display.

③ 🔁 **(Switch between live/playback)**

The screen will be switched to the playback screen (☞ page 17).

④ **Live video display**

Live video from the camera selected on the camera list screen will be displayed. When the screen is flicked, videos will be switched and displayed in order of the list.

Left flick

Right flick
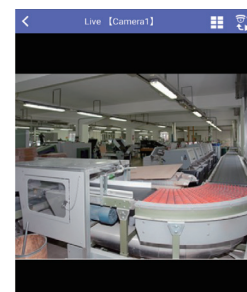
Example: Live video from camera 2

Example: Live video from camera 3
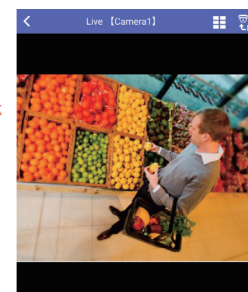
Example: Live video from camera 4

⑤ 🛠 **(Camera setting)**

Switches to the camera setting screen. When the camera in use supports the camera setting from this app, this button will be displayed.

Operations

Check live video (continued)

On-screen operation of fixed camera/PTZ camera

- Pinch out the screen to enlarge and pinch in the screen to reduce the display.

Pinch out

Pinch in
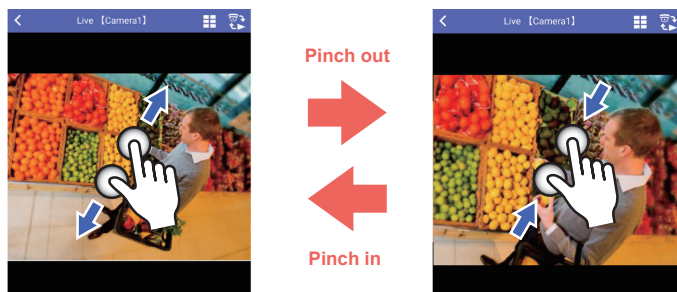
- Operations (gestures) during the enlarged display work as follows.
  Double tap: The display will return to the original size.

Double tap
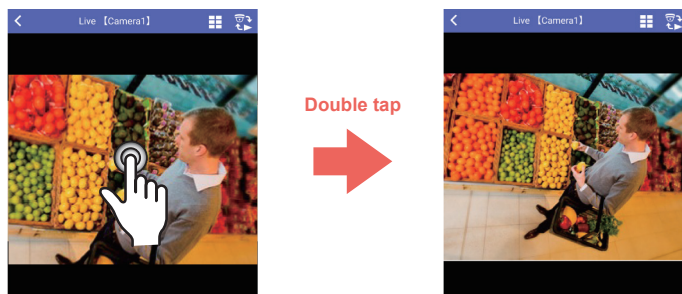
Flick: The direction of video can be changed while keeping the enlarged display.

Flick
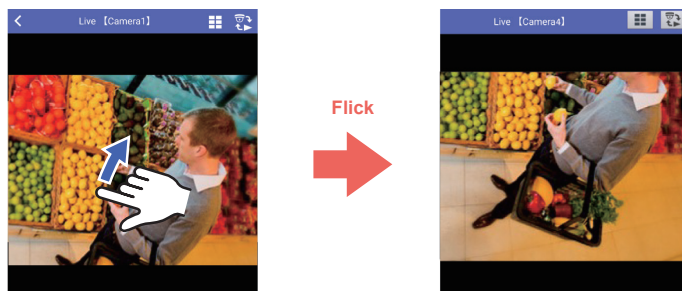
- When a point inside the screen is tapped, the direction of the camera will move to locate the tapped point to the center of the screen (PTZ camera only).

Tap

Note
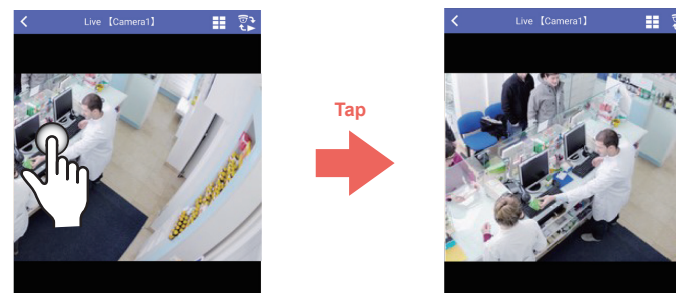
- When a 360-degree camera is in use, the dewarp function is available. Refer to "Dewarp function" (☞ page 26) for further information about the dewarp function.

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⑥ **Camera control panel**

Live video can be controlled using the pan/tilt/zoom functions.
Refer to "Control live video" (☞ page 13) for further information.

Operations

Check live video (continued)

Image/audio of live video

Available video and audio format are different depending on the live video type.
Refer to "Live video type" (☞ page 6) for further information about the live video type.

To use the audio function

Configuration of the audio setting is also required on the connected device side.
Check the following settings.

In case of camera

● Select "On" for "Audio" - "Audio reception" of this app. (☞ page 33)
● Either of "Mic Input", "Interactive(Half-duplex)" or "Interactive(Full-duplex)" is set for "Audio transmission mode" of the camera.

In case of recorder

● Select "On" for "Audio" - "Audio reception" of this app. (☞ page 33)
● Check if the settings of the recorder ("REC & event" - "Recording setup" - "Audio") and the settings of the camera "Audio input encoding format" are satisfying the contents (conditions) described below.

Viewable video

● Live video from an independent camera: JPEG, Stream(1) to (4)
● Live video from a camera connected to a recorder (via recorder): JPEG, H.264/H.265
● Live video from a camera connected to a recorder (camera direct): JPEG only

Supported video and audio

Live type	Video	Audio	
		G.726	**AAC**
Live video from an independent camera	MJPEG	○	—
	H.264	○	○
	H.265[*1]	○	○
Live video from a camera connected to a recorder (via recorder)	MJPEG	—	—
	H.264	○	○
	H.265[*2]	○	○
Live video from a camera connected to a recorder (camera direct)	MJPEG	○	—
	H.264	—	—
	H.265	—	—

*1: When live video is from an independent encoder, H.265 video is unavailable to view.
*2: When live video is from WJ-ND400 or NV series recorder, H.265 video is unavailable to view.

> **Note**
> ● Live video from a camera connected to WJ-HD716/HD616 can be viewed only when video is transmitted via recorder. Available audio is G.726 only.

Control live video

Perform PanTilt/ Zoom/ Preset/ Resolution/ Focus operation.
Perform operation by tapping each button on the camera control panel (☞ page 11).

> **Important**
> - When a fixed camera is use, only "Resolution" and "Save" will be displayed.
> - In case of 360-degree camera on which "Fisheye" is set for the image capture mode, only "Resolution" and "Save/Snapshot" are available.
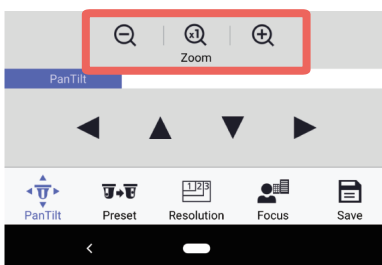
Pan/Tilt

Adjust the camera direction up, down, left and right.
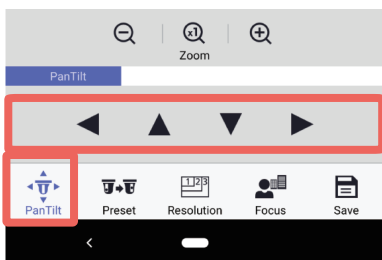
◀ : Adjust the camera direction left
▲ : Adjust the camera direction up
▼ : Adjust the camera direction down
▶ : Adjust the camera direction right

Zoom

Zoom in, display in the original size and zoom out video from a camera.

⊖ : Reduce video (Zoom out)
x1 : Display video in the original size (x1)
⊕ : Enlarge video (Zoom in)
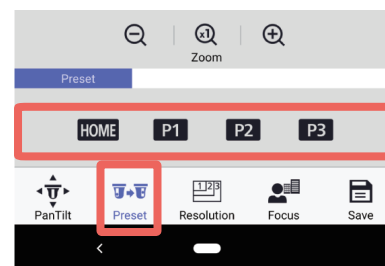
Preset

Move the camera direction to the preset position set on the camera in advance.
Refer to the operating instructions of the camera for further information about preset position.

> **Important**
> - Configuration of the preset position of the camera is not available on this app.

HOME : Move the camera direction to the home position

P1 : Move the camera direction to preset position 1

P2 : Move the camera direction to preset position 2

P3 : Move the camera direction to preset position 3

Resolution

Change the resolution of video from a camera.
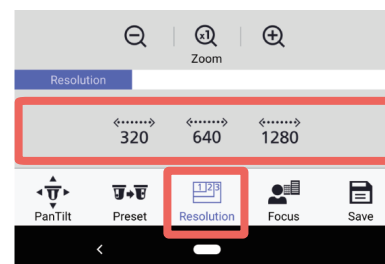
320 : Change the resolution to 320
640 : Change the resolution to 640
1280 : Change the resolution to 1280

> **Important**
> - When an independent camera is in use and "Stream(1) - (4)" is set for "Stream", "Resolution" will not be displayed.
> - When a camera connected to a recorder is in use and "H.264/ H.265" is set for "Stream", "Resolution" will not be displayed.
> - When "Resolution" is not displayed, video will be displayed at the resolution set on the device side.

Operations

Control live video (continued)

Focus

Adjust focus of video from a camera.

AF : Activate the auto focus function and automatically adjust focus based on a subject located in the center of the screen

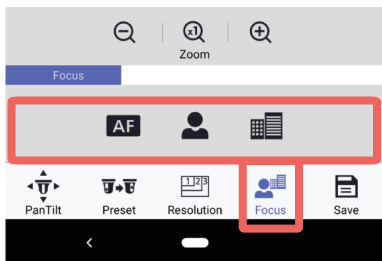👤 : Adjust focus to the "Near" side

📋 : Adjust focus to the "Far" side

Save/Snapshot

Camera control panel when a camera connected to a recorder is in use

Live video being displayed can be saved in the SD memory card on the camera and saving as still image (snapshot) is also available.
Refer to "Save live video" (☞ page 15) for how to operate.

When a camera connected to a recorder is in use, 📄 (Save) will be displayed instead of 📷 (Snapshot) on the camera control panel.

Switch to a multi display

The screen displaying videos from cameras can be switched to 6 Screens/8 Screens.
The setting that determines the number of screens (6 Screens/8 Screens) can be made by performing the procedure described in "Set a multi display [Multi Display Setting]" (☞ page 32).

6 Screen display

8 Screen display

14
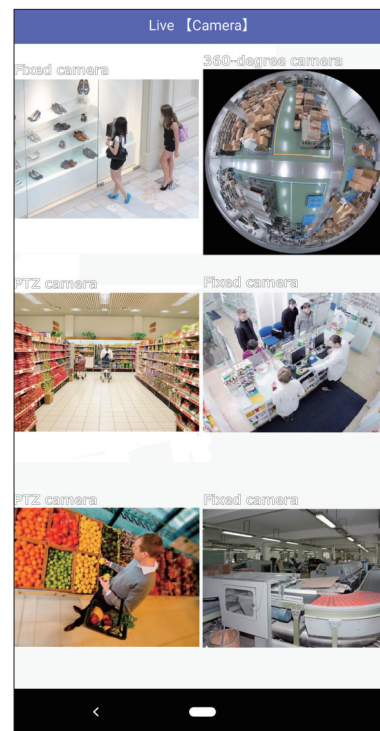
Operations

Save live video

Live video from a camera can be saved in the SD memory card on the camera and saving as still image (snapshot) is also available.

> **Important** ☞
> - Live video can be saved in an SD memory card only when the camera in use is an independent camera.
> - To save live video, it is necessary that the manual recording function of the connected camera is enabled. Check the following statuses and settings of the camera.
>   - ・ The camera supports use of SD memory card
>   - ・ An SD memory card is being inserted in the camera
>   - ・ The setting of the camera is configured to allow to use SD memory card
>   - ・ The save mode of the camera is set to "Manual".
> - When "JPEG" is set for "Recording format" on the camera, manual saving using this app is unavailable.
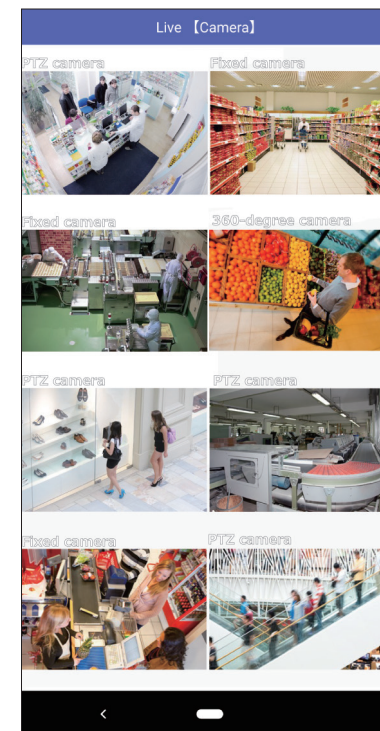
Save live video in an SD memory card

Save live video in an SD memory card.

Tap 📄 (Save) on the camera control panel. (☞ page 14)
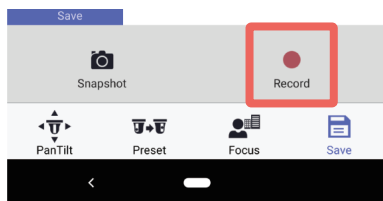
1 **Tap ⏺ (Record).**

⇒ Recording of the currently displayed live video will start.
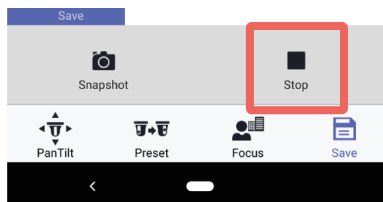
2 **Tap ⏹ (Stop).**

⇒ The recording will stop.

Save still image [Snapshot]

Capture live video with the snapshot function (a still image) and save it on the smartphone. Operation is different between an independent camera and a camera connected to a recorder.

The saved still image can be checked on the following apps.
- Android OS:"Gallery" app
- iOS: "Photo" app

In case of an independent camera

Tap 📄 (Save) on the camera control panel. (☞ page 14)
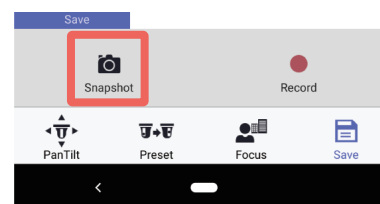
1 **Tap 📷 (Snapshot).**

⇒ The displayed video will be saved as a still image.

In case of a camera connected to a recorder
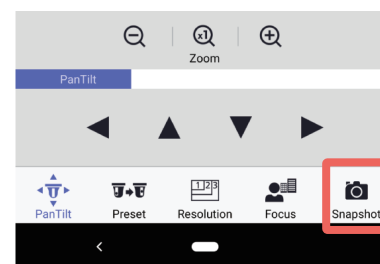
1 **Tap 📷 (Snapshot) on the camera control panel.**

⇒ The displayed video will be saved as a still image.

Operations

Play recorded video

Play videos recorded in the SD memory card (SD recording) on the camera or videos recorded in a recorder (recorder recording). To play recorded video, switch between the camera list screen and the live screen.

Camera list screen (Play)

List screen of independent cameras   List screen of cameras connected to a recorder
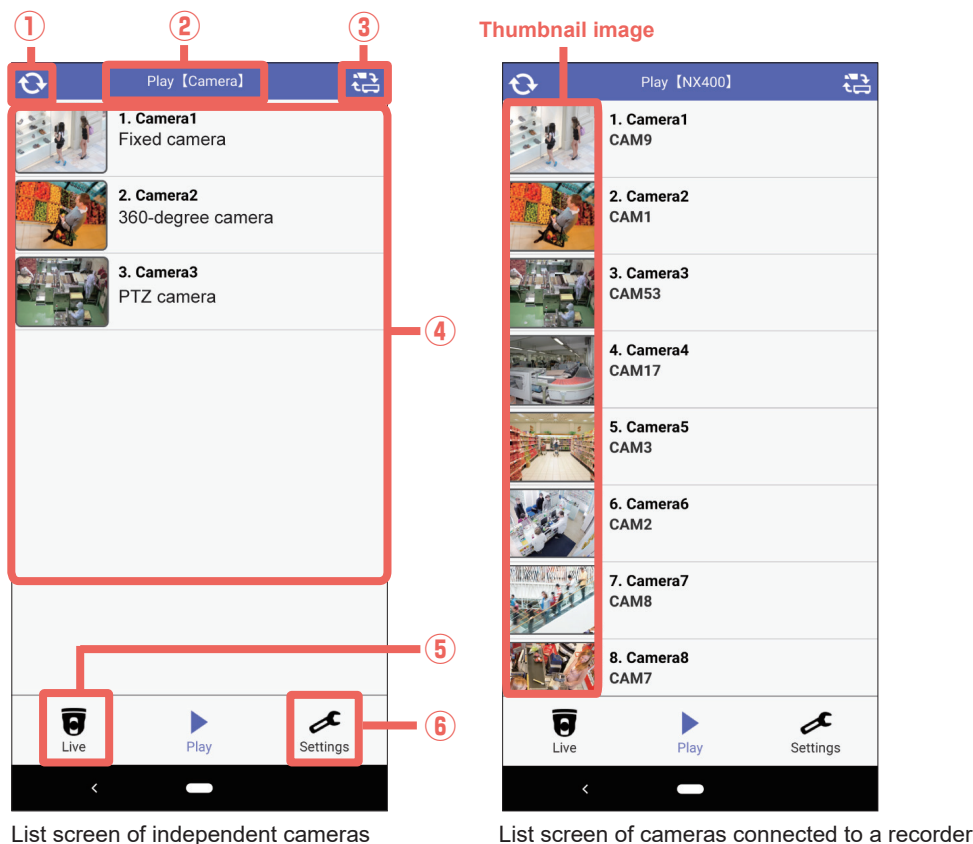
Note
- ● When using this app to play recorded video, no audio will be output. It is necessary to download recorded video to hear audio.
- ● The number of access users will be restricted if playing recorded video using this app. Refer to "Specifications" (☞ page 38) for further information about the maximum concurrent access users.

① 🔄 **(Update)**

The thumbnail image* will be updated to the latest.
* Thumbnail image: Image on the left side of the camera name in the camera list.

② **Title**

Video type (Live/Play) and a registered device name will be displayed.
However, in case of an independent camera, only "Camera" will be displayed instead of the registered device name.

③ 🔃 **(Switch between Camera/Recorder)**

Switches between the list screen of independent cameras and the list screen of cameras connected to a recorder.

④ **Camera list**

The connected cameras will be displayed in a list form. When a camera in the list is tapped, the playback screen (☞ page 17) of the selected camera will be displayed.

⑤ 📷 **(Live)**

The screen will be switched to the camera list screen (☞ page 9) of live.

⑥ 🔧 **(Settings)**

The "Settings" screen (☞ page 29) will be displayed.

Operations

Play recorded video (continued)

Playback screen
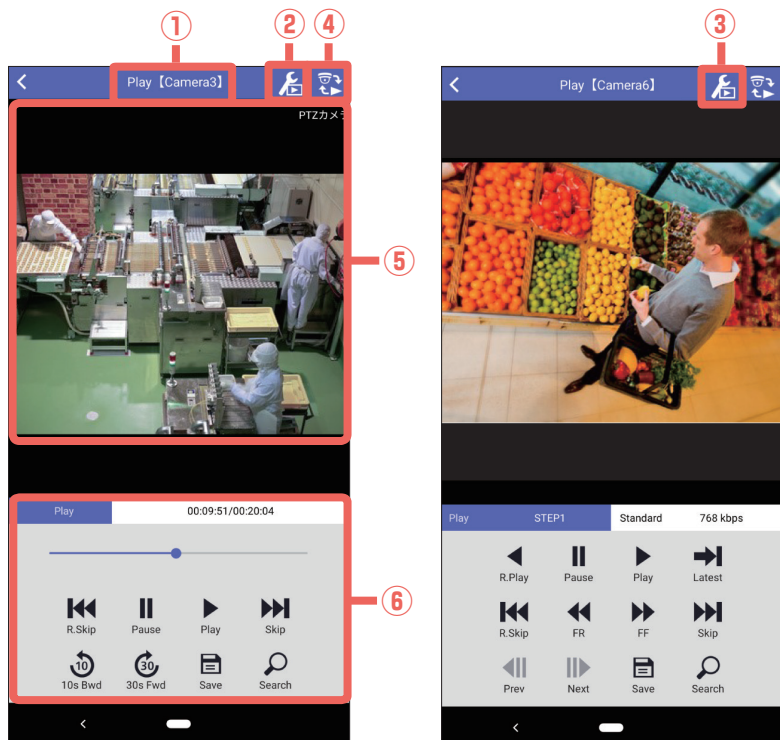
SD recording playback screen

Recorder recording playback screen

① **Title**

The registered device name will be displayed.

② 🔧 **(Switch stream) *SD recording playback screen**

This will be displayed when the camera has multiple recording streams.
When this button is tapped, the following window will be displayed and a stream for playback can be selected.
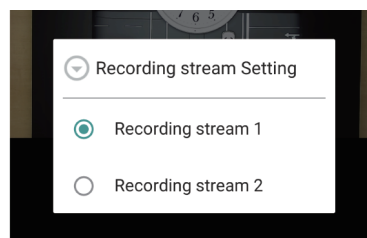
Important
☞ • 🔧 (Switch stream) will not be displayed in the following cases.
  - When playing recorded video in a recorder
  - When the camera has no multiple recording streams

③ 🔧 **(Playback Setting) *Recorder playback screen (Supported models: WJ-NV300, NX series)**

There are three playback modes and re-encoding to fit to the screen size/rate supported by the smartphone is available. Refer to "Switch the settings for playback" (☞ page 24) for information about the playback mode and how to configure it.

④ 📺 **(Switch between live/playback)**

The screen will be switched to the live screen (☞ page 10).
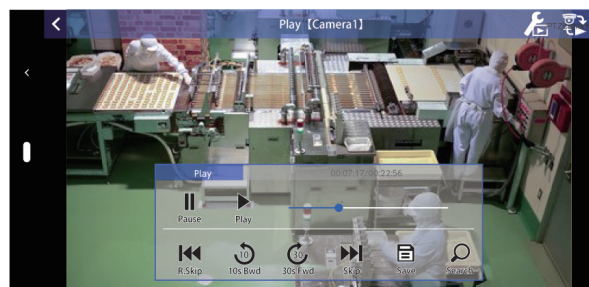
SD recording playback screen (horizontally wide screen)

Recorder recording playback screen (horizontally wide screen)

Control panel on the horizontally wide screen

When any part in the screen is tapped, the control panel will be displayed.
When the control panel is being displayed, tapping a point outside the control panel will hide the control panel.

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Operations

Play recorded video (continued)

Playback operation

⑤ Playback video display

Recorded video from the camera selected on the camera list screen will be displayed. When the screen is flicked, playback videos of cameras will be switched and displayed in order of the list.

Perform playback operation of recorded video. Perform operation by tapping each button on the playback control panel.
The buttons to be displayed on the playback control panel are different between during playback of video recorded in the SD memory card (SD recording playback) and during playback of video recorded in the recorder (recorder recording playback).

Left flick

Right flick

Example: Playback video from camera 2

Example: Playback video from camera 3

Example: Playback video from camera 4

> **Note**
> ● When a 360-degree camera is in use, the dewarp function is available. Refer to page 26 for further information about the dewarp function.

⑥ Playback control panel

Operations of recorded video including pausing and skipping during playback of recorded video can be performed on this panel.
The buttons to be displayed on the playback control panel are different between SD recording playback and recorder recording playback. Refer to "Playback operation" (☞ page 18) for further information.

Playback control panel during SD recording playback
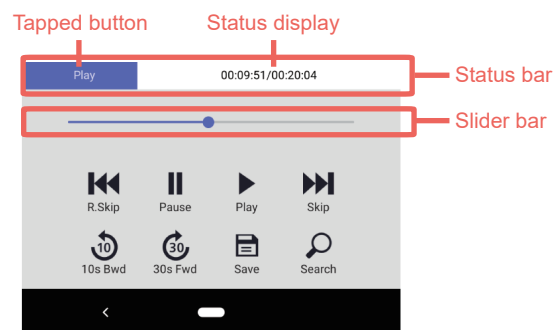
Tapped button   Status display

Status bar

Slider bar

Status bar	Tapped button: Name of the tapped button on the playback control panel Status display: Current time of playback video/Total time of playback video
Slider bar	Indicate the playback position. The playback position can be changed by moving the slider bar.
⏸ (Pause)	Pause a playback.
▶ (Play)	Start a playback.
🗎 (Save)	Video being played can be saved as a video file (MP4 format) or a still image (snapshot) in the smartphone. Refer to page 22 for further information including how to operate.
🔍 (Search)	Search recorded video by date, time or event. Refer to page 20 for further information including how to operate.
⏮ (R.Skip)	Play the previous recorded video.
(10s Bwd)	Go back 10 seconds from the current playback position (time) and start playback.
(30s Fwd)	Skip ahead 30 seconds from the current playback position (time) and start playback.
⏭ (Skip)	Skip to the next video and start playback.

Operations

Playback operation (continued)

Playback control panel during recorder recording playback

Tapped button   Status display

Play   STEP1   Standard   768 kbps   ← Status bar

◄ R.Play	⏸ Pause	▶ Play	⏭ Latest
⏮ R.Skip	◄◄ FR	►► FF	⏭ Skip
◄‖ Prev	‖► Next	Save	Search

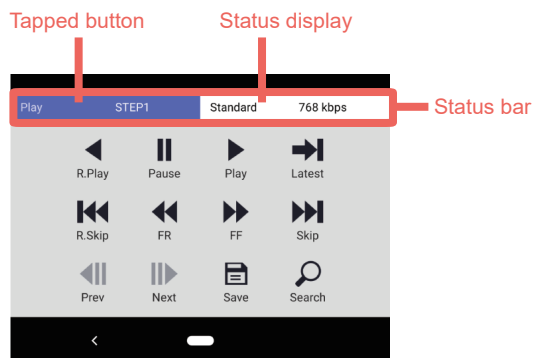| Status bar | Tapped button: Name of the tapped button on the playback control panel
Status display: Status of playback video

When "Transcode" is set for the playback mode
(Supported models: WJ-NV300, NX series)

Priority   Bit Rate

Play   STEP1   Standard   768 kbps

Priority: Setting value of priority
Bit Rate: Setting value of bit rate

Note ● Refer to "Switch the settings for playback" (☞ page 24) for further information about the playback mode and how to configure it. |
| ◄ (R.Play) | Play backward. |
| ⏸ (Pause) | Pause a playback. |

| ▶ (Play) | Play forward. |
(Save)	Video being played can be saved as a video file (MP4 format) or a still image (snapshot) in the smartphone. Refer to "Download playback video" (☞ page 22) for how to operate.
⏮ (R.Skip)	Play the previous recorded video.
◄◄ (FR)	Each time the button is tapped, the reverse playback speed will change. When ▶ (Play) or ◄ (R.Play) is tapped during fast reverse playback, the playback speed will return to the normal playback speed.
►► (FF)	Each time the button is tapped, the playback speed will change. When ▶ (Play) or ◄ (R.Play) is tapped during fast playback, the playback speed will return to the normal playback speed.
⏭ (Skip)	Skip to the next video and start playback.
◄‖ (Prev)	Display the previous frame and pause the playback. Each time this button is tapped during pausing, the previous frame will be displayed.
‖► (Next)	Display the next frame and pause the playback. Each time this button is tapped during pausing, the next frame will be displayed.
⏭ (Latest)	Play the latest recorded video.
(Search)	Search recorded video. Refer to "Search and play" (☞ page 20) for how to operate.

Operations

Search and play

Search recorded video by date, time or event and play.

Search by time&date and play

When 🔍 (Search) on the playback control panel is tapped (☞ pages 18, 19), a screen to specify a date and time will be displayed.
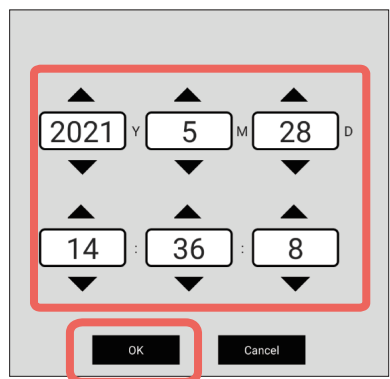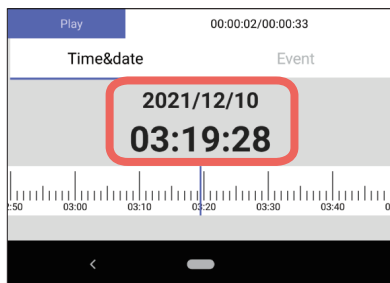
1 **Tap a playback date and time or specify a date and time on the timeline.**

⇒ When a playback date and time is tapped, the date and time specification screen will be displayed. Read the instructions in the right column for how to operate the timeline.

2 **Specify time and date and then tap [OK].**

⇒ Video recorded on the specified time and date will be played.

When found no video recorded on the specified time and date but found video recorded after the specified time and date:

Playback will start from the oldest video among videos recorded after the specified time and date.

When found no video recorded on the specified time and date and later:

Playback will start from the latest video among videos recorded before the specified time and date.

Operation of the timeline

Swipe the timeline to specify the date and time.
When the desired playback date and time is moved to the cursor and the finger is released, the playback will start.
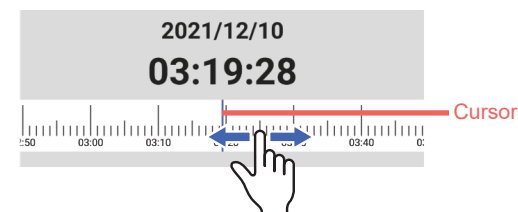
When a pinch in operation is performed, the scale width of the timeline will expand.

Pinch in
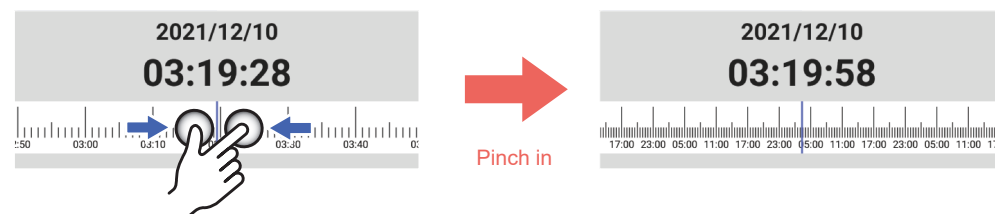
When a pinch out operation is performed, the scale width of the timeline will contract.

Pinch out

The scale width changes in 5 steps (72h/24h/6h/1h/10min).

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Operations

Search and play (continued)

Event search and play

Search for recording event in the specified time and date range and play.

> **Important** ☞ ● The event search is available only at the time of SD recording playback. The event search is not available at the time of recorder recording playback.

When 🔍 (Search) on the playback control panel is tapped (☞ pages 18, 19), the search screen will be displayed.
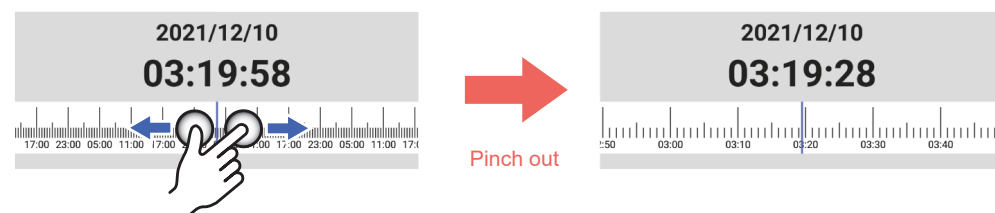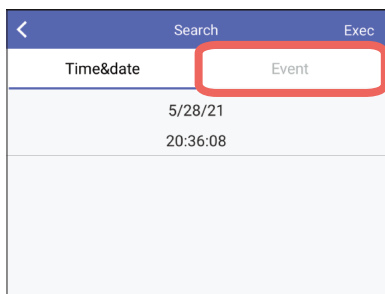
1 **Tap [Event].**

⇒ The "Event" screen will be displayed.
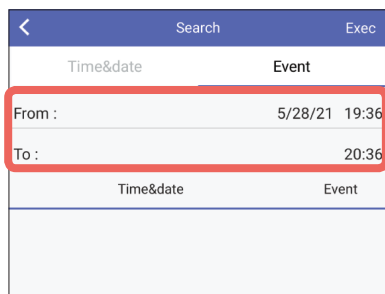
2 **Tap a start time and date and an end time and date to specify a time and date range in which event is to be searched.**

⇒ The screen to specify time and date will be displayed.
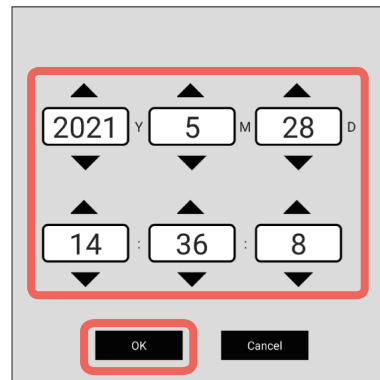
3 **Specify a start time and date and an end time and date and then tap [OK].**

4 **Tap [Execute].**

⇒ Search results will be displayed.

5 **Tap a desired video to play.**

⇒ Start a playback.

Operations (gestures) on the search result page work as follows.

|◁ (Go to the top of the page)
Display the latest page of search results (30 lists).

▷| (Go to the last page)
Display the last page of search results (30 lists).

◁ (Go to the previous page)
Display the previous page of search results (30 lists).

▷ (Go to the next page)
Display the next page of search results (30 lists).

Operations

Download playback video

Download video recorded in an SD memory card on the camera (SD recording) or video recorded in a recorder (recorder recording) to the smartphone in MP4 format.

Restrictions on download

- Download of video recorded in a recorder (recorder recording) is available only when the recorder in use is NX series.
- Download of video recorded in an SD memory card (SD recording) is available only when the camera in use supports the download of SD recording video (Extreme series or later).
- If the resolution and the aspect ratio at the time of recording correspond to the following, download may be unavailable.
  - Aspect ratio: 4:3, resolution: 3072x2304 or more
  - Aspect ratio: 1:1, resolution: 2192x2192 or more
  - Aspect ratio: 16:9, resolution: 3072x1728 or more
- When using an old model including iPhone6, playback of downloaded MP4 file (compression method: H.265) is unavailable.
- Download of MJPEG video is unavailable
- When the data size of the downloaded file is too large, it may take time to save the file on the smartphone.
- When the format of audio is G.726, audio will not be output when playing the downloaded file.

Save destination

The downloaded MP4 file will be saved in the following. It is not possible to change the save destination.

Android OS

Downloaded files will be saved in "/Camera" folder under "Environment.DIRECTORY_DCIM"

iOS

Downloaded files will be saved in Camera Roll

Download recorded video in a camera

Download video recorded in an SD memory card on the camera (SD recording) to the smartphone in MP4 format.

Tap [icon] (Save) on the playback control panel. (☞ page 18)

1 **Tap [icon] (Download).**

⇒ Download of the video currently being played will start. "Downloading" will be displayed during the download and "Download is complete" will be displayed when the download is completed.

> **Important**
> - Do not perform any other operation including tapping the home button when a download is in progress. Otherwise, the download may be interrupted and fail.

2 **Tap [OK].**

Operations
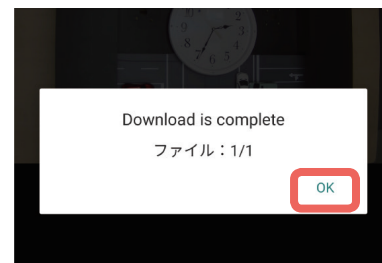
Download playback video (continued)

Download recorded video in a recorder

Download video recorded in a recorder (recorder recording) to the smartphone in MP4 format.

Tap 📄 (Save) on the playback control panel. (☞ page 19)
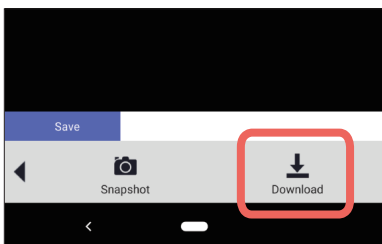
1 **Tap ⬇ (Download).**

⇒ The screen to specify a download start time and date (From) and a download time will be displayed.
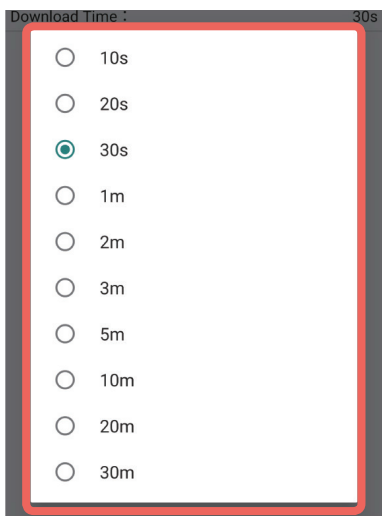
2 **Specify a download start time and date (From) and a download time**

Select a download time from the following.
10s/ 20s/ 30s/ 1m/ 2m/ 3m/ 5m/ 10m/ 20m/ 30m
Default: 30s
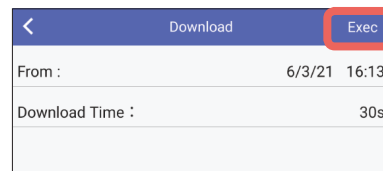
3 **Tap [Execute].**

⇒ Download of the specified recorded video will start. "Downloading" will be displayed during the download and "Download is complete" will be displayed when the download is completed.
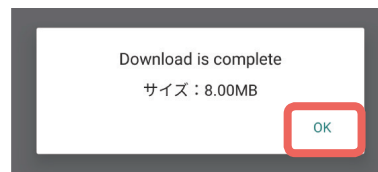
4 **Tap [OK].**

Save still image [Snapshot]

Capture playback video with the snapshot function (a still image) and save it.

Tap 📄 (Save) on the playback control panel. (☞ page 18)
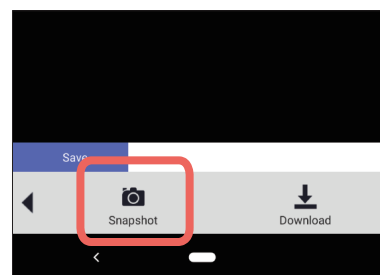
1 **Tap 📷 (Snapshot).**

⇒ The displayed video will be saved as a still image.

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Operations

Switch the settings for playback

When WJ-NV300 or NX series is in use, the following three settings are available as the setting for playback (playback mode).

● **Transcode**
Smooth video playback is achieved since video is played after re-encoding it in order to fit to the screen size/rate supported by the smartphone.
When "Transcode" is set, it is necessary to select "Priority" and "Bit Rate".

● **Normal**
Playback will be performed according to the recording settings (resolution, frame rate) of the recorder.

● **Low Load**
Playback will be performed with low load by playing I-frames only.

Tap 🛠 (Playback Setting) on the playback screen. (☞ page 17)
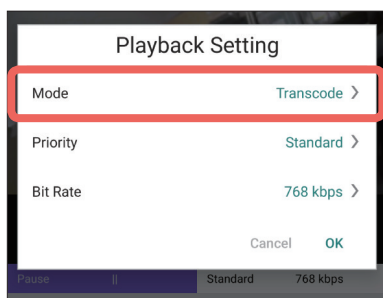
1 **Tap [Mode].**

The "Mode" screen will be displayed.
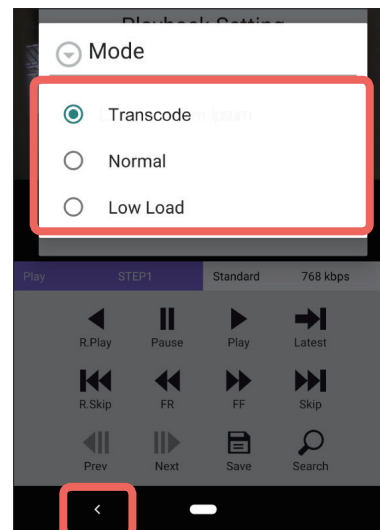
2 **Tap a desired playback mode to be configured.**

When setting to "Transcode", perform the procedures of step 4 and subsequent.

3 **Tap ⟨ (Back).**

⇒ The display returns to the "Playback Setting" screen.
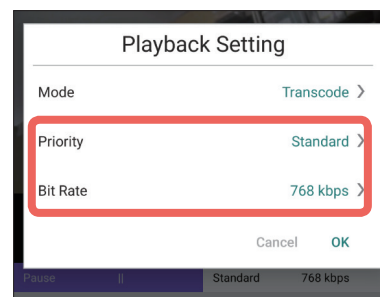
4 **Tap [Priority] / [Bit Rate].**

⇒ The setting screen will be displayed.

Operations

Switch the settings for playback (continued)
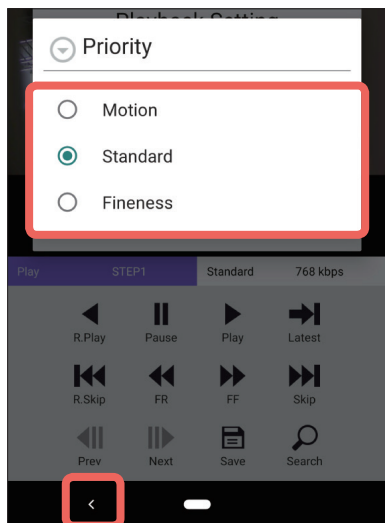
"Priority" screen
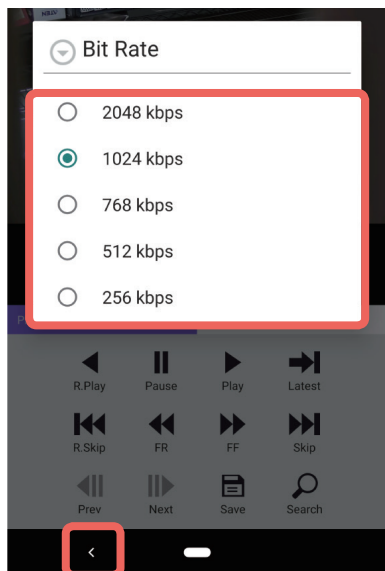
"Bit Rate" screen

5 **Configure the settings of "Priority" and "Bit Rate".**

Refer to the right side for further information about "Priority" and "Bit rate".

6 **Tap ‹ (Back).**

⇒ The display returns to the "Playback Setting" screen.
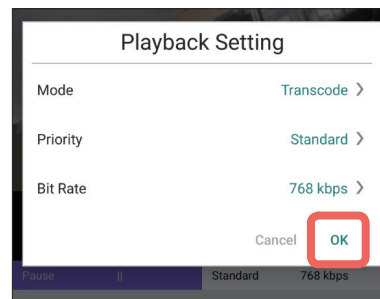
7 **When completed the settings, tap [OK].**

⇒ The settings will be applied.

Priority

Select from the following.

Motion	When "Motion" is set, movement of subject is prioritized and the frame rate is set higher than the resolution.
Standard (default)	When "Standard" is set, movement of subject and the frame rate are set to standard.
Fineness	When "Fineness" is set, quality of subject is prioritized and the resolution is set higher than the frame rate.

Bit Rate

Select from the following.
2048 kbps/ 1024 kbps/ 768 kbps/ 512 kbps/ 256 kbps
Default: 768 kbps

Dewarp function

The dewarp function is a function that rotates an image, crops an image out and displays in PTZ display by applying the 3D technology of fisheye image of 360-degree camera.

This dewarp function is available on this app when displaying live video from 360-degree camera (image capture mode: fisheye) or recoded video.

Important
- The dewarp function is available only with a 360-degree camera (image capture mode: fisheye).
- The dewarp function is not available when displaying videos on a multi display.

Switch to the PTZ display

Double tap (or pinch out) a point (center) to be displayed in the PTZ display.

Fisheye display

Double tap

PTZ display

Fisheye display

Pinch out

Rotate a fisheye image

Swipe in a desired direction to rotate so as to draw a circle.

Swipe so as to draw a circle

Return to the fisheye display from the PTZ display

Double tap the screen. Video will be displayed in the fisheye display while keeping the top and bottom positions.
When trying to display an area larger than a certain size by pinching in on the screen, video will automatically be displayed in the fisheye display.

PTZ display

Double tap

PTZ display

Pinch in

Fisheye display

26

Operations

Alarm notification function

Reception of alarms from cameras and recorders on this app will become available by making the setting relating to alarm notification in advance.
Alarm notifications will appear in a pop-up display on the smartphone/tablet. It is possible to check live video from the camera on which the alarm occurred by tapping the pop-up display.*

* The above screen is an example.

Tap the screen

Alarm video (live) from a camera

| Note | ● How to operate the content of the pop-up display or the thumbnail image may differ depending on the mobile device in use. |

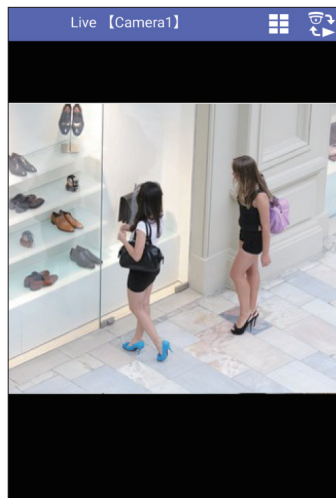| Important | ● To receive alarm notifications, it is necessary to make the following settings in advance.
  • Setting relating to alarm notifications (☞page 34 "Setting relating to alarm notification [Notification settings]")
  • Setting of the mobile notification tool
   *Mobile notification tool: This tool is a PC software tool that sends alarm notifications to this app. It is necessary to install this tool to the PC to receive alarm notifications.
● For details about operations and settings relating to alarm notification and about the mobile notification tool, refer to the website below.
  https://i-pro.com/global/en/surveillance/products/security-viewer/mobile-notification-tool
● To display live video from a camera on which an alarm occurred by tapping a pop-up display of alarm notification, it is necessary to register device information. (☞page 36) |

Alarm information (pop-up display)

The following alarm information will appear in a pop-up display when an alarm notification is received.

| Note | ● The following screen is an example. Depending on the mobile model used, the content of the pop-up display may differ from the actual one. |

* The above screen is an example.

App name	App name "Viewer" will be displayed.
Reception date and time	Date and time when each alarm has been received will be displayed.
Device name	Name of the device (camera/recorder) from which the alarm notification is sent will be displayed. When the device information is not acquired, the IP address of the device will be displayed.
Alarm message	An alarm message contained in alarm information will be displayed. For alarm messages, refer to the website. Refer to the "Important" section on page 27 for the URL of the website.
Alarm occurrence time and date	Date and time when an alarm is detected with the device (camera/recorder) will be displayed.
Thumbnail image	A thumbnail image will be displayed. For the thumbnail image setting (display/hide and more), refer to the website. Refer to the "Important" section on page 27 for the URL of the website. A thumbnail image can also be displayed enlarged/reduced. (☞page 28)

Operations

Alarm notification function (continued)

Display a thumbnail image enlarged/reduced

When there is a thumbnail image in a pop-up display, the thumbnail image can be displayed enlarged (open)/reduced (close).

> **Note** ● How to operate the content of the pop-up display or the thumbnail image may differ depending on the mobile device in use.

Tap ⌄

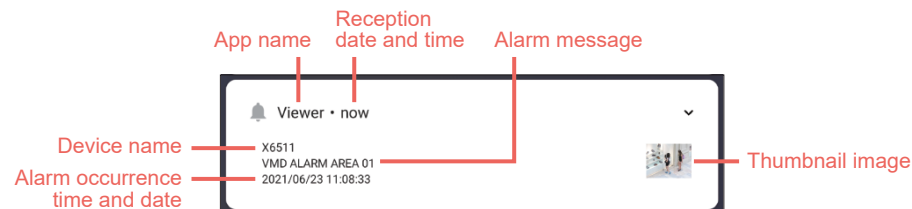Reduced display (close display)
* The above screen is an example.

Tap ⌄

Tap ⌃
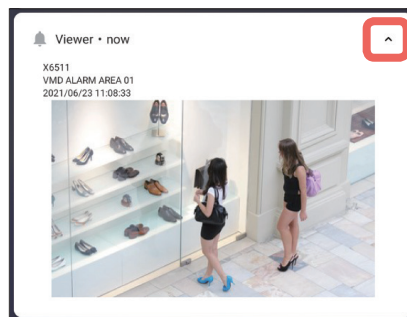
Enlarged display (open display)
* The above screen is an example.

It is possible to check live video from the camera on which the alarm occurred by tapping the screen in a state where the thumbnail image is displayed enlarged (open display) or by tapping [Live display]. (☞ Page 27)

Check the alarm notification reception history

A history of up to the latest 100 received alarm notifications can be checked.
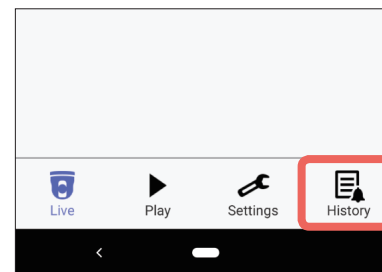
1 **Tap** 📋 **(History) at the bottom of this app screen.**

⇒ The notification history screen will be displayed.
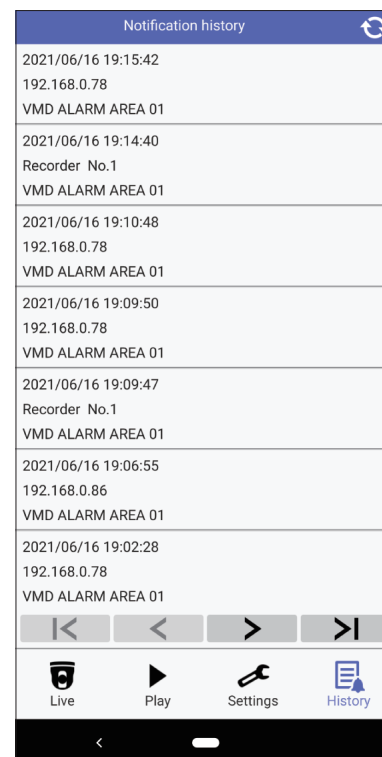
2 **A history of up to the latest 100 alarm notifications will be displayed.**

20 notifications per page (screen) will be displayed. The page operation on the notification history screen works as follows.

🔄 (Update)
The content will be updated to the latest information.

|< (Go to the top of the page)
Display the latest page (20 lists).

>| (Go to the last page)
Display the last page (20 lists).

< (Go to the previous page)
Display the previous page (20 lists).

> (Go to the next page)
Display the next page (20 lists).

Setting screen

Set devices [Device Setting]

Perform the settings relating to devices, display and audio.

Tap ⚒ (Settings) at the bottom of the camera list screen. (☞ pages 9 and 16)

Settings	
Device Setting	Camera ❯
Easy Setup	❯
Display Setting	❯
Audio	❯
Notification settings	❯
Advanced Setting	❯
Operation Guide	❯
About	❯

1 **Tap each setting.**

Device Setting

Perform the setting relating to devices to be connected with this app such as cameras and recorders. (☞ page 29)

Easy Setup

Perform the initial setting of the camera that can read QR codes.

Display Setting

Perform the setting relating to display such as camera title, time and date, multi display and screen color. (☞ page 31)

Audio Setting

Perform the setting for audio reception. (☞ page 33)

Notification settings

Perform the setting relating to alarm notification. (☞page 34)

Advanced Setting

Perform the setting of the Internet mode of the camera. (☞ page 37)

Perform the setting relating to devices to be connected with this app such as cameras and recorders.

Refer to "Registration of device information" (☞ page 4) for how to register/add devices.
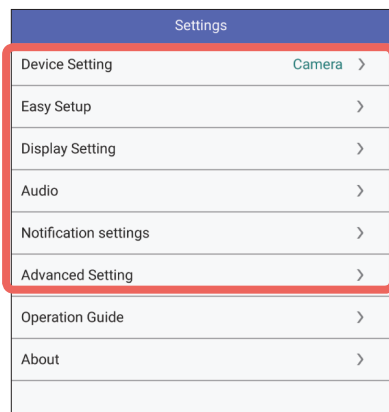
The following are descriptions of how to change the display order of devices and of how to change/delete registration information of devices.

Change the display order of devices

Tap [Device Setting] on the setting screen. (☞ page 29)

Device Setting	
Camera	
✓ s2220 WV-S2550L	❯
✓ x4171 WV-X4171	❯
✓ S6130 WV-S6130	❯
Recorder	
nx300 WJ-NX300	❯

Recorder	
nx300 WJ-NX300	≡
nv300 WJ-NV300	≡
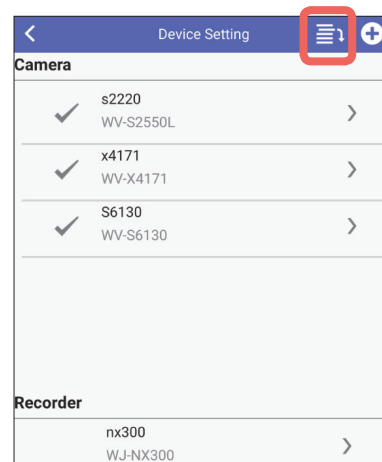
1 **Tap ≡ (Sort).**

⇒ ❯ displayed on the right side of a device name will turn to ≡ and the display order of devices will become ready to be changed.

2 **Long tap* ≡ to drag to change the order**

*Long tap: Tap with your finger and keep the finger in contact with the screen

29
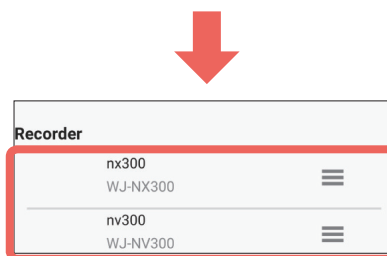
Settings

Set devices [Device Setting] (continued)
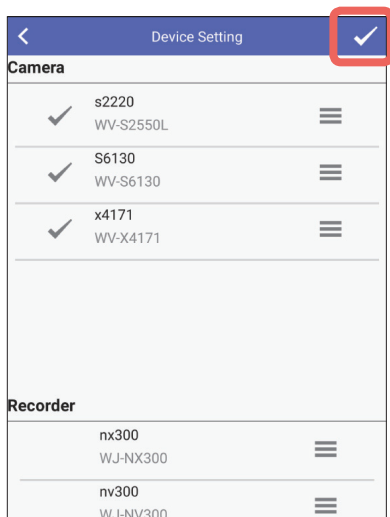
3 **When change of the order is completed, tap ✓ (End).**

Change registration information of devices

Tap [Device Setting] on the setting screen. (☞ page 29)
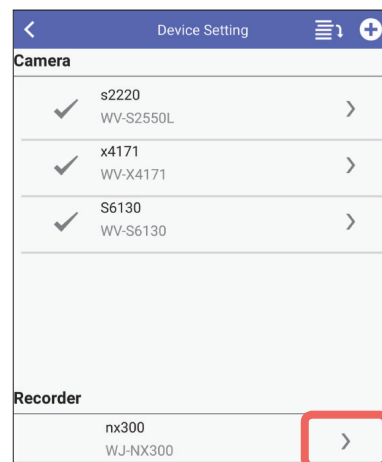
1 **Tap ❯ on the right side of a device name whose registration information is to be changed.**

⇒ The "Device Registration" screen will be displayed. Refer to "Registration of device information" (☞ page 4) for further information about each item and for how to operate.
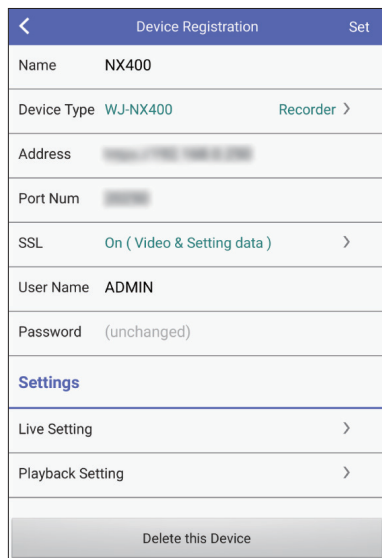
Settings

Set devices [Device Setting] (continued)

Delete a device

Tap [Device Setting] on the setting screen. (☞page 29)
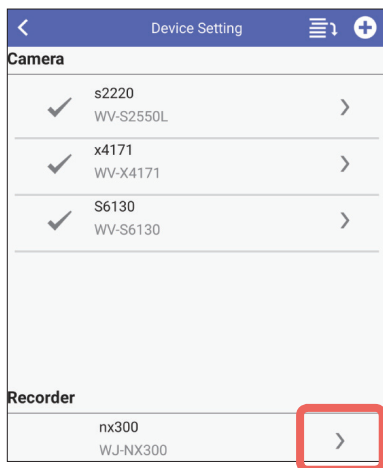
1 Tap ❯ on the right side of a device name to be deleted.

⇒ The "Device Registration" screen will be displayed.
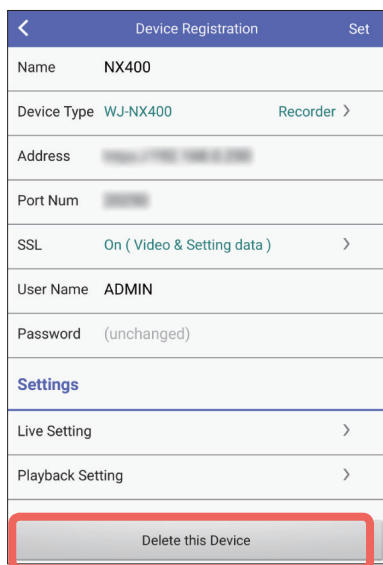
2 Tap [Delete this device].

⇒ The confirmation screen will be displayed. When [OK] is tapped, the selected device will be deleted.

Setting relating to display [Display Setting]

Perform the setting relating to display such as camera title, time and date, multi display and screen color.

Set the title display [Disp Title setting]

Perform the setting to determine the camera title display position on the live screen, multi display and playback screen.
Tap [Display Setting] on the setting screen. (☞ page 29)
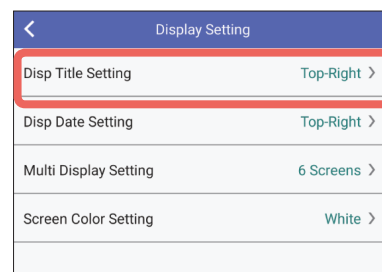
1 Tap [Disp Title Setting].

⇒ The setting screen will be displayed.
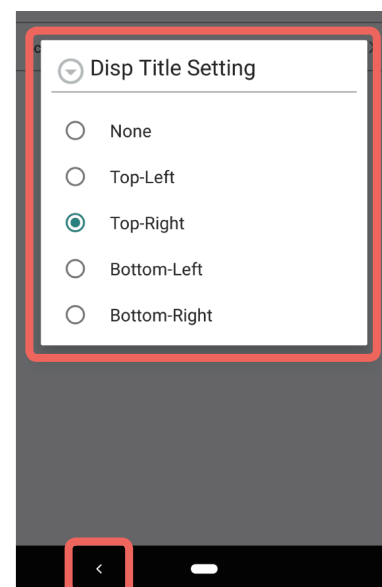
2 Set the display position.

None: No camera title will be displayed.

Top-Left: A camera title will be displayed at the upper left corner of the screen.

Top-Right: A camera title will be displayed at the upper right corner of the screen.

Bottom-Left: A camera title will be displayed at the lower left corner of the screen.

Bottom-Right: A camera title will be displayed at the lower right corner of the screen.

3 Tap ❮ (Back).

⇒ The settings will be applied.

Settings

Setting relating to display [Display Setting] (continued)

Set the time and date display [Disp Date Setting]

Perform the setting to determine the playback time and date display position on the playback screen.

> **Important**
> - For playback of SD recording of the camera, display of time and date is unavailable.
> - Time and date will not be displayed when displaying live video (from both camera and recorder).

Tap [Display Setting] on the setting screen. (☞ page 29)
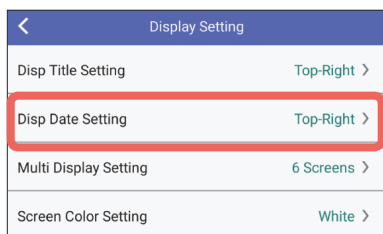
1 **Tap [Disp Date Setting].**

⇒ The setting screen will be displayed.
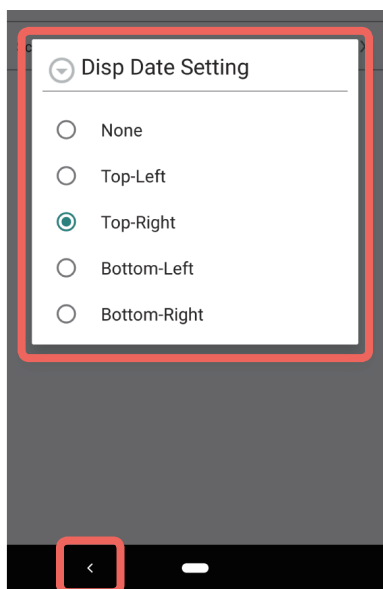
2 **Set the display position.**

None: No playback time and date will be displayed.

Top-Left: A camera title will be displayed at the upper left corner of the screen.

Top-Right: A camera title will be displayed at the upper right corner of the screen.

Bottom-Left: A camera title will be displayed at the lower left corner of the screen.

Bottom-Right: A camera title will be displayed at the lower right corner of the screen.

3 **Tap** < **(Back).**

⇒ The settings will be applied.

Set a multi display [Multi Display Setting]

Perform the setting to determine the number of multi display (6 Screens display/8 Screens display) to be displayed when displaying live video on a multi display.
Tap [Display Setting] on the setting screen. (☞ page 29)
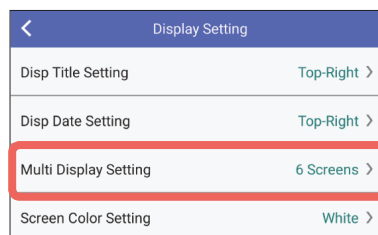
1 **Tap [Multi Display Setting].**

⇒ The setting screen will be displayed.
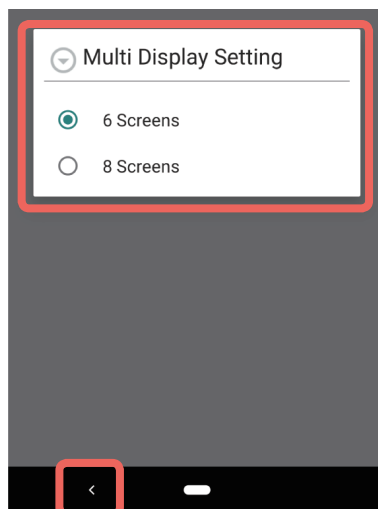
2 **Determine the number of the multi display.**

6 Screen: Videos from 6 cameras will be displayed.
8 Screen: Videos from 8 cameras will be displayed.

3 **Tap** < **(Back).**

⇒ The settings will be applied.

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Settings

Setting relating to display [Display Setting] (continued)

### Set the background color of the screen [Screen Color Setting]

Perform the setting to determine the background color (white/black) of the screen .
Tap [Display Setting] on the setting screen. (☞ page 29)

Display Setting	
Disp Title Setting	Top-Right >
Disp Date Setting	Top-Right >
Multi Display Setting	6 Screens >
Screen Color Setting	White >
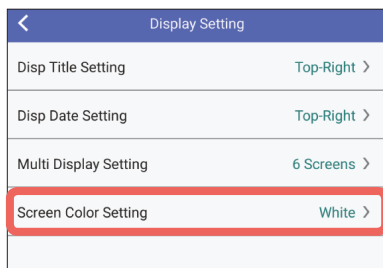
1 **Tap [Screen Color Setting].**

⇒ The setting screen will be displayed.

Screen Color Setting
- ● White
- ○ Black

2 **Determine the background color of the screen.**

White: White will be applied as the background color.
Black: Black will be applied as the background color.

3 **Tap** < **(Back).**

⇒ The settings will be applied.
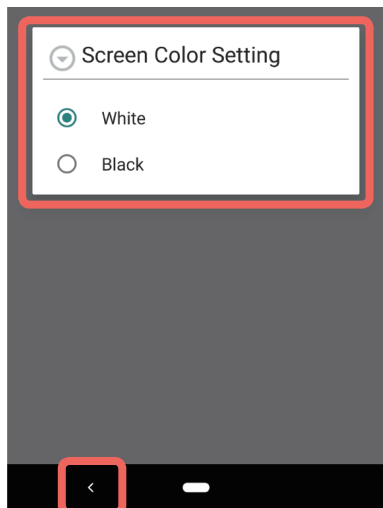
Perform the setting relating to audio [Audio]

Select "On" or "Off" to determine to receive audio of live video from the camera.
Tap [Audio] on the setting screen. (☞ page 29)

Audio	
Audio reception	Off >
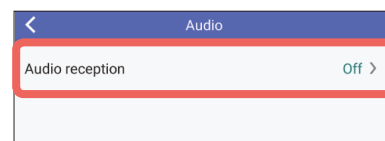
1 **Tap [Audio reception].**

⇒ The setting screen will be displayed.

Audio reception
- ● Off
- ○ On

2 **Select "On" or "Off" for audio reception.**

On: Audio will be received.
Off: Audio will not be received.

3 **Tap** < **(Back).**

⇒ The settings will be applied.
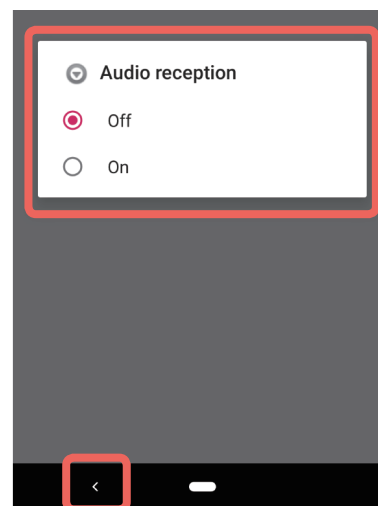
Setting relating to alarm notification [Notification settings]

Configure the setting to receive alarm notifications from cameras and recorders.
The following settings are to be configured.

- Registration of the mobile device information
- Registration of the mobile notification tool
- Acquisition of device information

> **Important** ☞
> - For details about operations and settings relating to alarm notification and about the mobile notification tool, refer to the website. Refer to the "Important" section on page 27 for the URL of the website.

Register mobile device information [Mobile device information]

Register the name of the mobile device to be displayed on the home screen of the mobile notification tool.

Tap [Notification settings] on the setting screen. (☞page 29)

Notification settings	
Mobile device information	›
Mobile Notification Tool setting	›
Getting device information	›
Notification history	›
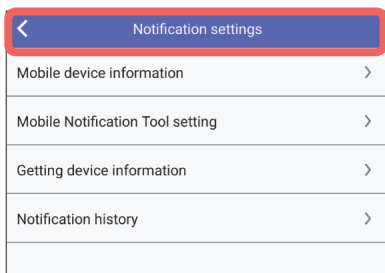
1 **Tap [Mobile device information].**

⇒ The mobile device information screen will be displayed.

Mobile device information	Set
Device name 3a	
Mobile device information	
Pixel 3a/Android 10	
Mobile device ID	

2 **Enter a name of the mobile device with up to 16 characters.**

Example: Administrator A (Available characters: Alphanumeric characters,1-byte symbols)

3 **Tap [Set].**

⇒ The entered mobile device name will be registered.

Set the mobile notification tool [Mobile notification tool setting]

Set the mobile notification tool to the mobile device.
The tool can be set to up to 5 devices.

Tap [Notification settings] on the setting screen. (☞page 29)

Notification settings	
Mobile device information	›
Mobile Notification Tool setting	›
Getting device information	›
Notification history	›
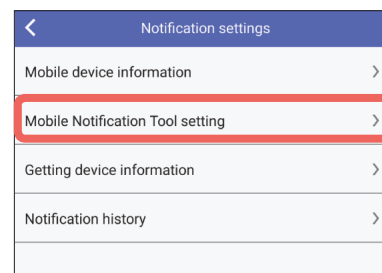
1 **Tap [Mobile Notification Tool setting].**

⇒ The mobile notification tool setting screen will be displayed.

Mobile Notification Tool setting	⊕
Mobile Notification Tool	
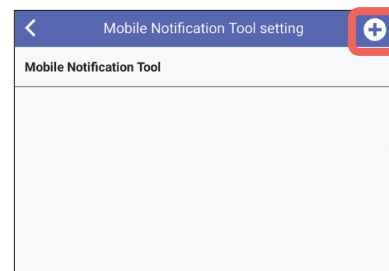
2 **Tap** ⊕ **(Newly register).**

⇒ The registration screen of the mobile notification tool will be displayed.

Settings

Setting relating to alarm notification [Notification settings] (continued)

Mobile Notification Tool Registration	Set
Tool ID(without hyphen)	ID
Tool password	Password
Certificate check	Off >
Name	(Unacquired)
Notification	(Unacquired)
Thumbnail	(Unacquired)

3 **Fill out "Tool ID" and "Tool password".**

Input the above in accordance with the setting of the mobile notification tool. Enter a tool ID with up to16 alphanumeric characters without hyphen.
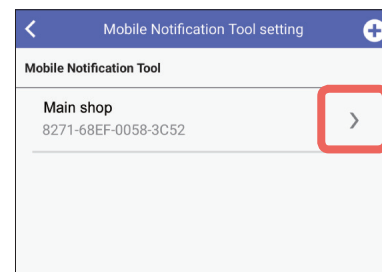
4 **Tap [Set].**

⇒ Information for "Name", "Notification" and "Thumbnail" will automatically be acquired and the registration information will be displayed.

Mobile Notification Tool Registration	Set
Tool ID(without hyphen)	827168EF00583C52
Tool password	(unchanged)
Certificate check	Off >
Name	Main shop
Notification	Yes
Thumbnail	Yes
Delete this device	

Delete the mobile notification tool

Delete the mobile notification tool registered in the mobile device.
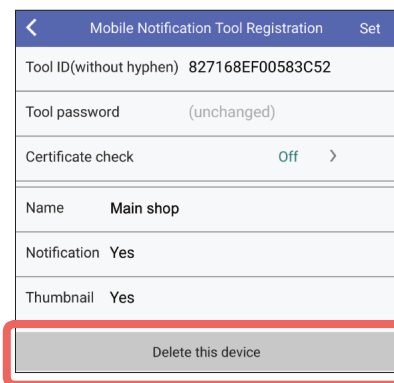
Tap [Mobile Notification Tool setting] on the notification setting screen. (☞page 34)

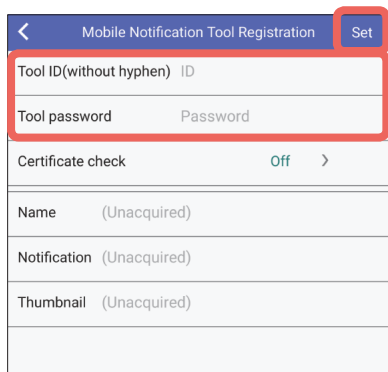| Mobile Notification Tool setting	+
Mobile Notification Tool	
Main shop 8271-68EF-0058-3C52	>

1 **Tap ⟩ at the right side of the name of the mobile notification tool.**

⇒ The registration screen of the mobile notification tool will be displayed.

Mobile Notification Tool Registration	Set
Tool ID(without hyphen)	827168EF00583C52
Tool password	(unchanged)
Certificate check	Off >
Name	Main shop
Notification	Yes
Thumbnail	Yes
Delete this device	

2 **Tap [Delete this device].**
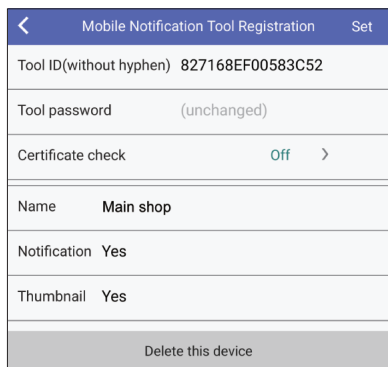
⇒ The confirmation screen will be displayed. When [OK] is tapped, the selected mobile notification tool will be deleted.

Settings

Setting relating to alarm notification [Notification settings] (continued)

Acquire device information

To use the following functions of alarm notification, it is necessary to acquire information from the device (camera/recorder) in advance.

- Display the name of the device on which an alarm occurred in the pop-up display of alarm notification
- Display live video from the camera on which an alarm occurred by tapping the pop-up display of alarm notification

Even when there is a device from which information is not yet acquired, it is possible to acquire information by the following operation.

Important ☞	• At the time of device registration, device information will be acquired. Therefore, this operation is not necessary when the device is newly registered. In case that the version of this app is updated from less than V6.0 to V6.0 or later, acquisition of device information is required.

Tap [Notification settings] on the setting screen. (☞page 29)

Notification settings
Mobile device information >
Mobile Notification Tool setting >
Getting device information >
Notification history >
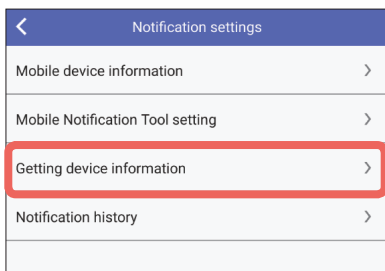
1 **Tap [Getting device information].**

⇒ The device information acquisition screen will be displayed.

Getting device information	Execute
Camera	
X6511 WV-X6511	
X2271 WV-X2271L	
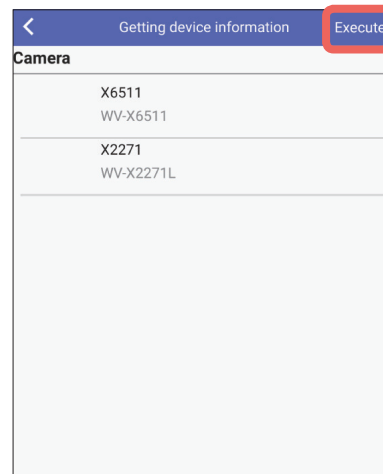
2 **Tap [Execute].**

On the screen, a list of devices from which device information is not yet acquired among the devices registered in this app will be displayed.

⇒ When [Execute] is tapped, acquisition of device information will start.

3 **Tap [OK].**

When the acquisition is completed and a message saying "Device information is acquired." is displayed, tap [OK].

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Settings

Set the Internet mode [Advanced Setting]

What is the Internet mode?

The Internet mode is a mode to be set when distributing H.265 (or H.264) video from the camera via the Internet mode. When this mode is set, it is possible to transmit streams without changing the setting of the broadband router from the setting used for JPEG image transmission.

To make this app receive live video streams, it is necessary to set "On" for "Internet mode (over HTTP)" on the camera side.

Setting method

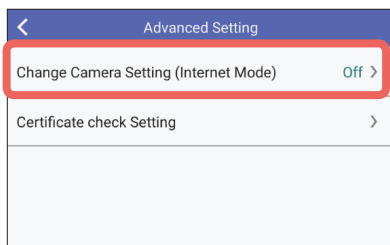Determine whether to automatically set to "On" for "Internet mode (over HTTP)" even when "Off" is set for "Internet mode (over HTTP)" on the camera side.

Tap [Advanced Setting] on the setting screen. (☞ page 29)

‹	Advanced Setting	
Change Camera Setting (Internet Mode)	Off	›
Certificate check Setting		›

1 **Tap [Change Camera Setting (Internet Mode)].**

⇒ The setting screen will be displayed.

Internet mode

⊙ If this setting is "On" and a video stream is selected as the live stream, the "Internet mode (over HTTP)" setting on the camera is automatically set to "On".

◉ Off
○ On

‹
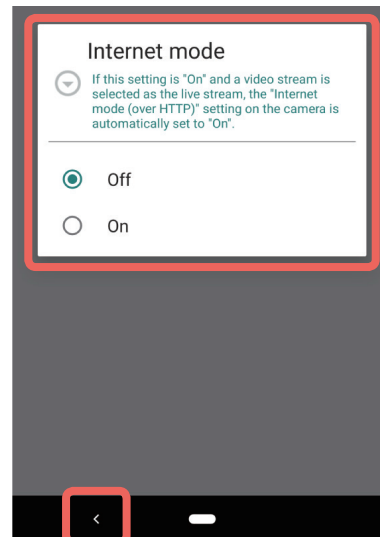
2 **Select "On" or "Off" for the Internet mode.**

Off: Does not automatically set to "On", when "Off" is set for "Internet mode (over HTTP)" on the camera side.

On: Automatically set to "On", when "Off" is set for "Internet mode (over HTTP)" on the camera side.

3 **Tap ‹ (Back).**

⇒ The settings will be applied.

Others

Specifications

OS		Android OS: 7.0 or later iOS: 11.0 or later
Wireless Network		3G/ 4G/ 5G/ LTE/ Wireless LAN (Wi-Fi)
Number of registered recorders/network cameras/encoders		Camera + encoder: Max.50 ch Recorder: Max.50
Access type for live video		Camera direct, via recorder
Functions on the live page	Multi-screen mode	6 Screens/8 Screens * 6/8 Screens are not supported by WJ-HD616/HD716
	Horizontally wide display	◯
	Screen switch	Flick to display the video of the next camera / previous camera Multi-screen → 1 Screen: Tap a desired camera 1 Screen → Multi-screen: Back button/Screen switch button
	Camera control	PanTilt, zoom, resolution (320, 640, 1280), focus (auto focus, near, far), preset (HOME, P1 - 3)
	Manual recording on camera	◯
	Digital zoom	◯ (Pinch in, pinch out)
	Snapshot and save	◯
Function for playback	Multi-screen mode	1 Screen only
	Horizontally wide display	◯
	Playback control	Play, pause, reverse play, skip/reverse skip, fast forward/ fast backward, next/previous frame, latest video playback (depending on the recorder setting)
	SD playback	◯
	Download of recorded video being played	◯
	Recording event search	Time&date search
	Digital zoom	◯ (Pinch in, pinch out)
	Snapshot and save	◯
Playback mode		Low load (I-frame only)/ Normal/ Transcode*3
Live Frame rate*1		Depends on Camera Setting*/0.5/ 1/ 2/ 5 fps
Live Resolution*4		Depends on Camera Setting/ 320/ 640/ 1280 (Aspect ratio depends on camera setting)

Video format	Live	Live video from an independent camera, live video from a camera connected to a recorder (via recorder): JPEG, H.264, H.265 * Some format may not be supported depending on the camera model. Live video from a camera connected to a recorder (camera direct): JPEG Live video via WJ-HD616/HD716: H.264 Live video from an independent encoder: MJPEG, H.264
	Playback	SD recording playback, normal playback, low load playback: H.264, H.265 * When video is recorded in MJPEG/MPEG4 format, playback is unavailable. Transcode playback: JPEG, H.264, H.265
Language		Japanese/ English/ Simplified Chinese (The language is automatically be switched based on the language setting of the terminal.)
Audio		G.726 and AAC-LC supported. Available audio format varies depending on the live video type.*5
Number of characters for title		16 characters
Number of access users*2	Live (Camera direct)	i-PRO SmartHD/ EXTREME series camera/ Encoder: Max.14 users/ch (priority to earlier*6) NV series recorder/NX series recorder: Max.13 users/ch (priority to earlier*6)
	Live (via recorder)	NV series recorder/ WJ-ND400/ WJ-HD616/ HD716: Max.1 user/ch (priority to later*7) NX series recorder: Max.13 users/ch (priority to earlier*6)
	Playback (Normal playback/ Low load playback)	WJ-NV200: Max.4 users (priority to later*7) WJ-ND400: Max.16 users (priority to later*7) WJ-NV300: Max.8 users (priority to later*7) WJ-HD616/HD716: Max.8 users (priority to later*7) WJ-NX400/NX200/NX300: Max.16 users (priority to later*7)
	Playback (Transcode playback)	WJ-NV300: Max.1 user (priority to earlier*6) WJ-NX400/NX200/NX300: Max.2 users (priority to earlier*6)
	SD memory card playback	i-PRO SmartHD/EXTREME series camera: Max.1 user (priority to the earliest*6)

*1: Available to set only when the format is JPEG.
Display performance varies depending on the use environment and terminal.
When delays occur in live video from the camera, lower the frame rate of live video.
*2: Including users accessing with PC application/browser.
*3: Available only when performing playback with WJ-NV300 and NX series.
*4: Available to set only when the format is JPEG. If JPEG of the specified resolution cannot be obtained, JPEG of the resolution specified on the camera side will be obtained.
*5: Refer to page 12 for supported video and audio format.
*6: "Priority to earlier" means that a terminal cannot display live video or playback video if it accesses when it already reached the maximum number of access users.
*7: "Priority to latest" means that a terminal can display live video or playback video if it accesses when it already reached the maximum number of access users. Instead, the user who accessed first becomes unable to display live video and playback video.