

# Smart-telecaster™ *Zao Cloud View*

Smart-telecaster Zao Cloud View 1.5 user's guide

Soliton Systems

## What is "Smart-telecaster Zao Cloud View 1.5"?

Smart-telecaster Zao Cloud View 1.5 (Cloud View) is a video management service available via a dedicated viewing application.

- 1) Live video      Live video viewing  
View live video feeds from the transmitter.  
It also visualizes location information by mapping the transmitter's GPS positioning information on a map.
- 2) Stored video viewing  
Automatically record live broadcast video and view past broadcast videos.
- (3) voice conference  
Voice bi-directional communication via Cloud View. (\*)

(\* Not available in this release)

Overall system configuration



Figure 1 Overall system configuration

## caution

- For other products, excluding Cloud View, please refer to the appropriate User's Guide.
- The contents of the Smart-telecaster Zao Cloud View User's Guide (this document) are subject to change without notice.  
The version of the software may vary depending on the version of the software.
- The information in this document is subject to change without notice.
- In order to view this manual, the device you are viewing it on must be connected to the Internet.

## Restrictions and special notes

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- This product includes Isao Mori's AES library.
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- The contents of this product are subject to change without notice for product improvement.  The connection configurations shown in this document are only examples for reference and do not guarantee all combinations.

## Features not available in this release

- The following functions are not available. They will be supported in the next version.  
Bidirectional voice communication with transmitter Between  
applications Video/audio conferencing

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## 1 Browsing Applications

### 1.1 install

To view this system, you will need to install a separate application. Please execute Setup.exe provided by our company and install it.



Figure 2 Browsing application (installed)

- (1) The setup wizard starts.

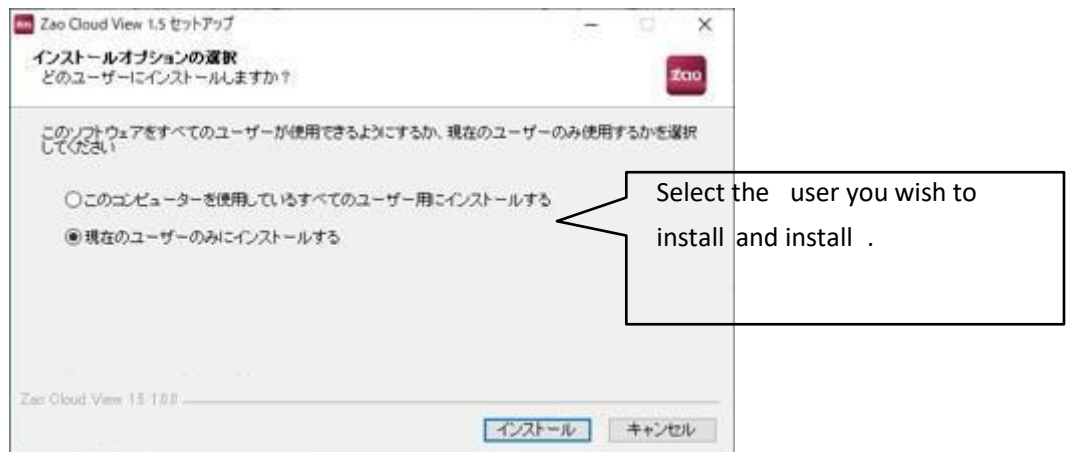


Figure 3 Browsing Application (Setup Wizard)

- (2) When installation is complete, you will be asked if you want to run "Zao Cloud View 1.5" or not. If you do not want to run it, uncheck the box and complete the installation. If you want to run it later, it will be displayed on the desktop.

A "Zao Cloud View 1.5" icon will be created.

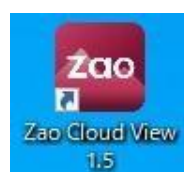


Figure 4 Browsing application (icon)

### 1.2 launch

Double-click the desktop shortcut to launch the application. After launching, a login screen will appear.

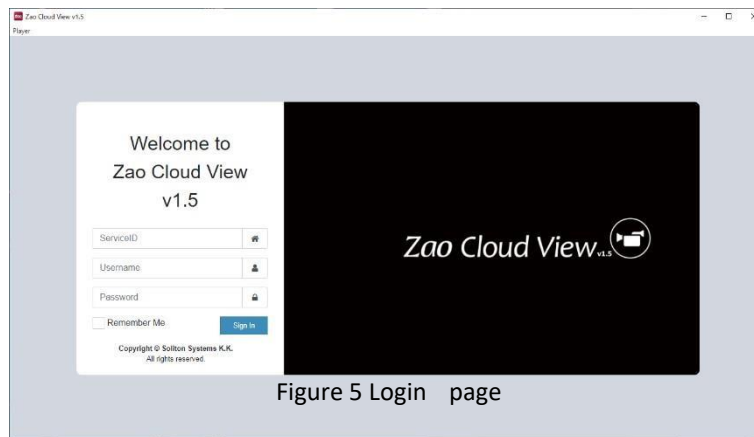


Figure 5 Login page

### 1.3 Firewall Permissions

When the video from the transmitter is received for the first time, a "Windows Security Important Warning" will appear. Check all items  and press "Allow Access".

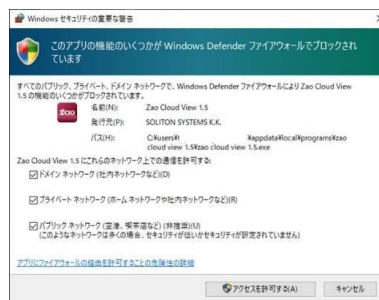


Figure 6 Browsing Application (Firewall Access Permission)

### 1.4 uninstall



Double-click "Zao Cloud View 1.5" from Programs and Features in the Control Panel. An uninstallation confirmation dialog box will appear.

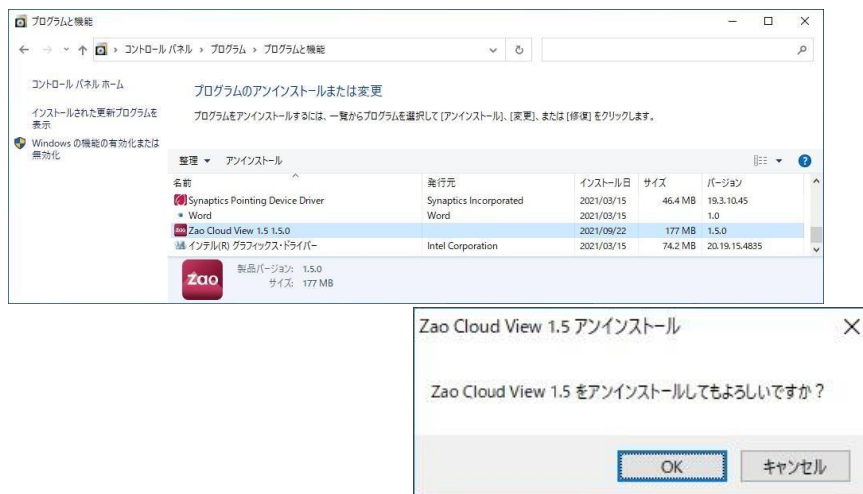


Figure 7 Browsing application (uninstall)

## 1.5 menu

The functions that can be performed from the menu of the browsing application are as follows

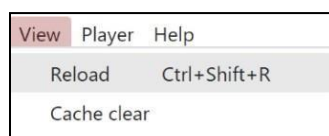


Figure 8 Browsing application (menu)

### A) View

[Click "Reload" to reload the page.

[Click "Cache clear" to clear the cache.



Click "Cache clear" to display the message "Cache clear complete". Follow the message and restart the browsing application.

### B) player

Click [Open a file] to play the stored video file downloaded from CloudView and saved locally.  
See "2.5.5 Stored Video Page Download" for details on downloading.

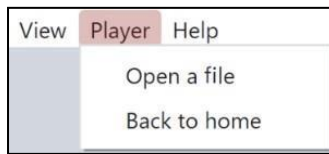




Figure 9 Toolbar at the bottom of the playback screen of the browsing application

< Local playback (download playback)

■ PC

Clicking on the video portion allows playback/pause.



Double-click on the video portion or use the icons  and  in the lower right corner to switch between full screen and windowed view.

■ tablet

Click on the video portion Or,

Tap the play/pause button in the lower left corner to play/pause the video.

Double-click on the video portion Or,

The icons  and  in the lower right corner allow you to switch between full-screen and windowed views.

Double-tap the left side of the video to backward 10 seconds, Double-tap the right side of the video to send 10 seconds.

<Volume

- PC

Mouse over the speaker icon to display the volume control bar for adjustment.  
Mute/Unmute can be toggled by clicking the speaker icon several times.

- tablet

Mouse over the speaker icon or hold the speaker icon during video playback the volume adjustment bar will appear and you can adjust the volume.

\*Volume control may not be possible while the tablet is charging.

Click/tap the speaker icon several times to toggle mute/unmute.

[Click "Back to home" to return to the login page.

(\*) This operation does not perform the logout operation. The "3.2 Login Error Screen" may be displayed for up to 60 seconds.

Normally, please perform "2.5.8 Logout".

C) Help

[Click "About Zao Cloud View 1.5" to view the copyright notice.

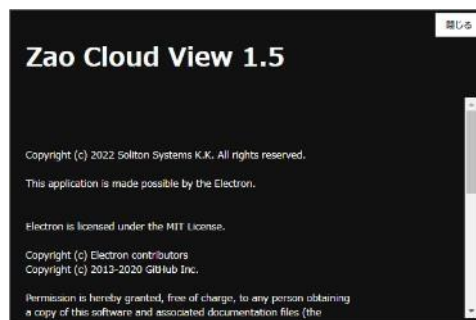


Figure 10 Copyright Notice

## 2 User Function Restrictions

### 2.1 page transition

#### 2.1.1 general

For users with general privileges, the dashboard appears on the top page when they log in.

\*Pages available to the administrator are not available.

The administrator can change the permissions for the live video page, stored video page, download, and deletion.

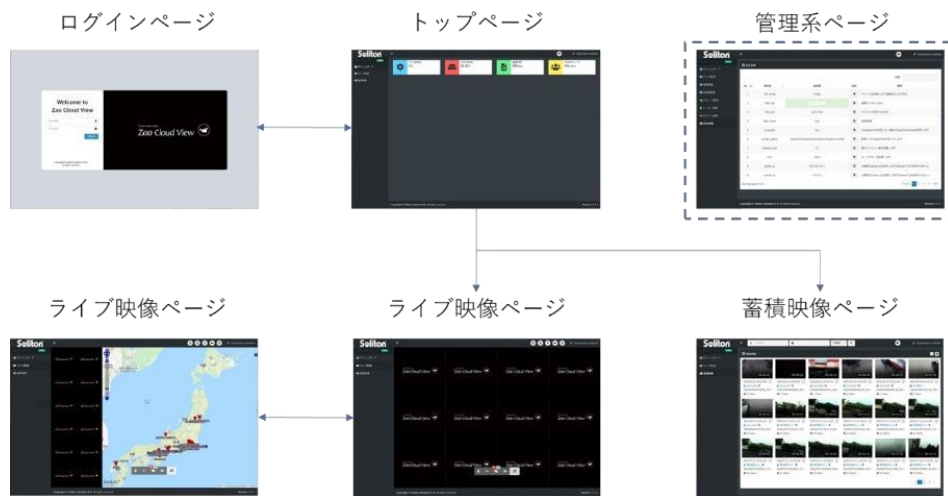


Figure 11 General User Page Transition Overview (Normal Operation)

### 2.1.2 Administrator/Site Manager

Users with administrator privileges have access to all functions from the Administration menu page. Site administrator privileges grant access to transmitter management and group management.

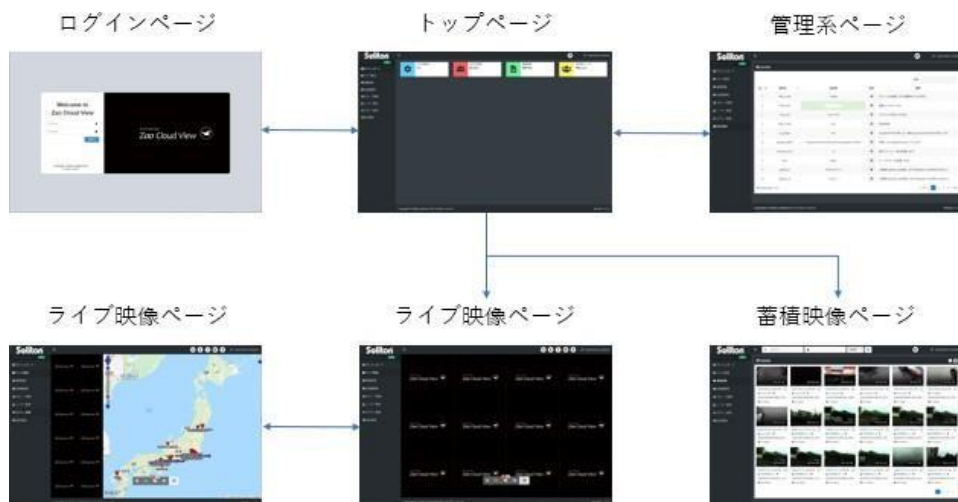


Figure 12: Admin/Site Admin User Page Transition Overview

## 2.2 List of User Functional Restrictions

**Table 1 List of User Functional Limitations**

Item#	Main Item	Sub Item	Admin	Manager	User
3	Log In	Log In	○	○	○
4	Administration/General Menu	Sidebar Menu	○	△	△
4.1	Top Page	Dashboard	○	○	○
5	Live Streaming Page	Live/Map Browse	○	△	△
6	Stored Video Page	Video Playback	○	△	△
6.3	Stored Video Page	Enter Comment	○	○	○
6.4	Stored Video Page	Delete, Download	○	△	△
7	Transmitter Management Page	Transmitter name registration	○	○	×
8	Group Management Page	Group creation, assignment	○	○	×
9	User Management Page	User creation, deletion	○	×	×
10	External Camera Management	IP camera registration	×	×	×
11	Login Management Page	Login status display, search	○	×	×
12	Settings Management Page	System settings	○	×	×

○: The function can be used.

△ : Administrators can use the functions by granting permissions on the user management page.

×: The function is not available.

## 2.3 Page Transition by Function

### 2.3.1 Live Streaming Page

Target: Administrators/site managers/general users



Figure 13 Live Streaming Page Transition

### 2.3.2 Stored Video Page

Target: Administrators/site managers/general users

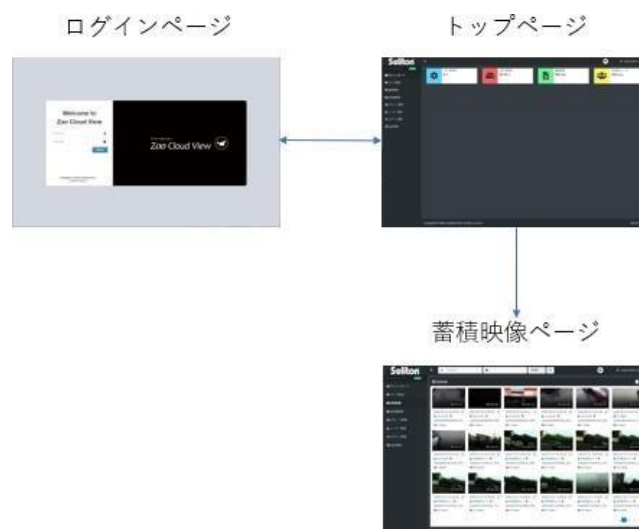


Figure 14 Stored Video Page Transition

### 2.3.3 Stored Video Page Content Viewing

Target: Administrators/site administrators/general users alike Press the thumbnail on the page to display the playback page.

\*Content can be searched by time period, string, number of views, or new arrivals.

\*If location information is not located during the recording period, the map and location information will not be displayed during playback.



Fig. 15 Stored video page content inspection ④ / browsing transition

### 2.3.4 Stored video page Comment input

Target: Administrators/site managers/general users

You can register comments on the stored video using the "Comment Button" You can register comments on the stored video from the "Comment button" on the playback page.

\*Comments can be used in string searches.

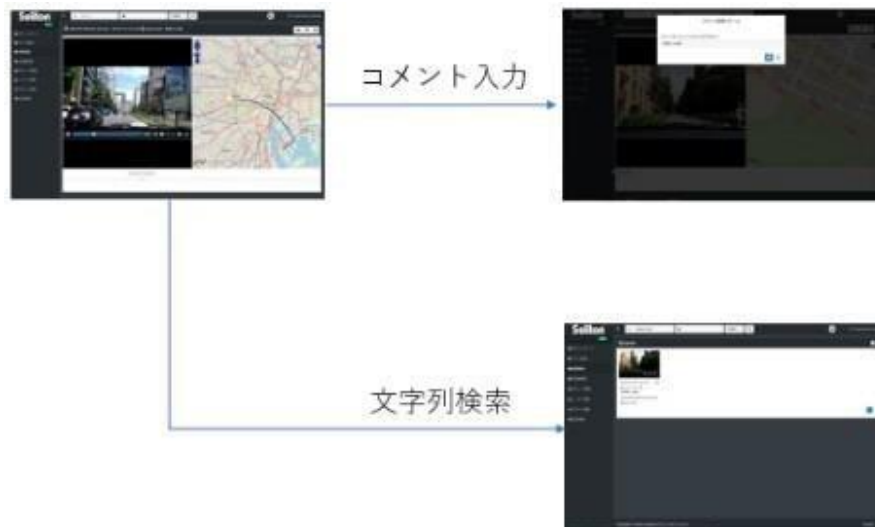



Figure 16 Stored Video Page Comment Input Transition

### 2.3.5 Stored Video Page Download

Admin/Site Admin/General User

You can download the stored video by pressing the "  " button" on the playback page to download





the stored video .

Figure 17 Stored Video Page Download Transition

### 2.3.6 Stored video page Delete

Target: Administrators/site managers/general users

In the list page, you can delete multiple contents at once while they are selected.

You can also delete the  currently viewed content by clicking the "  " button" on the playback page to delete the currently viewed content. In both cases, a confirmation dialog box will appear when deleting.

Click "OK" in the dialog box to delete the stored video.

\*Content that has been deleted will be completely lost. It cannot be restored.



Figure 18 Stored Video Page Delete Transition



### 2.3.7 Management Menu Page

Standard view (for administrator/site manager)

Administrator users will see more menu links than general users and have access to the following functions. Site administrator users can only access the transmitter management page and group management page.

- (1) Transmitter Management Page
- (2) Group Management Page      Group Management Page  
User Management Page
- ④ External Camera Management Page
- 5) Login Management Page
- (6) Management Settings Page

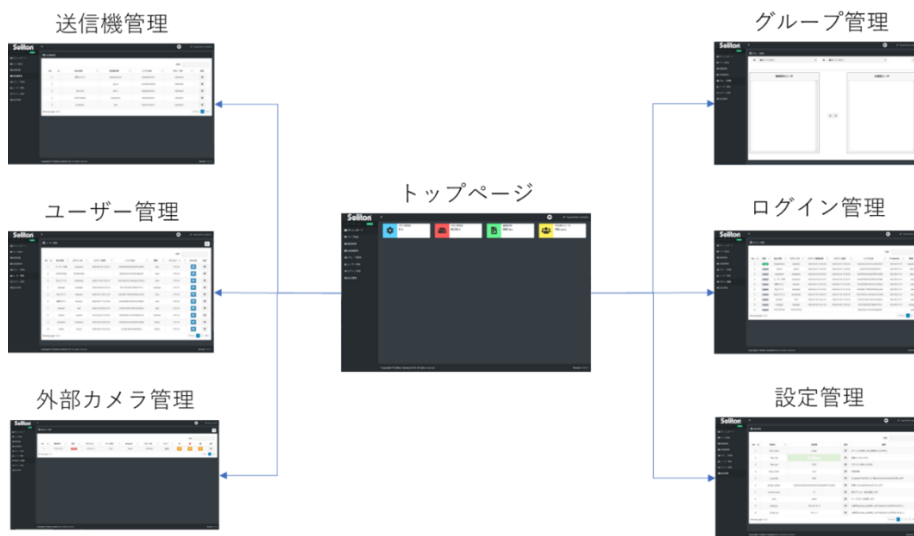


Figure 19. Management Menu Page Transition

### 2.3.8 logout

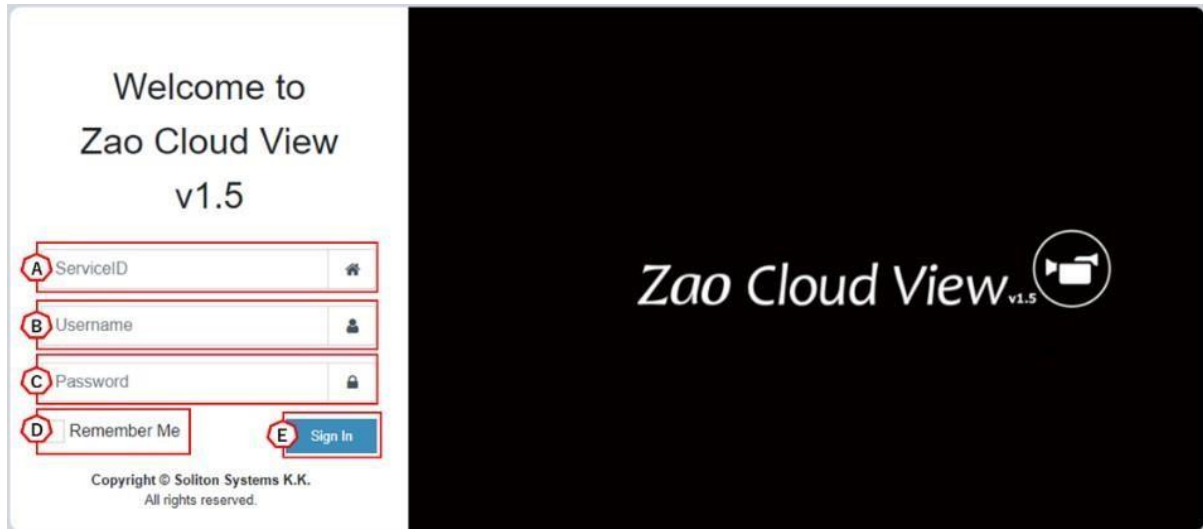
Standard view (for administrators/site administrators/general users) All users can log out from the upper toolbar.



Figure 20 Logout Transition

### 3 Login Page

#### 3.1



Login

screen

Figure 21 Login page

- A) Service ID  
Enter your policy number. (e.g. ABCD-123456789)
- B) Username  
Enter the login user name for Cloud View.
- C) Password  
Enter the login password for Cloud View.
- D) Remember Me  
Login information with the checkboxes checked will be retained (90 days).  
(\* ) This function is available in the cloud version.
- E) Sign In  
Upon successful authentication of the user name/password, you will be redirected to the top page.

### 3.2 Login Error Screen

When login fails, the reason for the failure is displayed as an error message as shown below.

The figure shows two side-by-side screenshots of a login form. Each form has a 'Username' field with a user icon, a 'Password' field with a lock icon, and a blue 'Sign In' button. Below the form is a red error message box. The left screenshot shows the message 'ユーザー名またはパスワードが間違っています' (Username or password is incorrect). The right screenshot shows the message 'ユーザは許可されていません' (User is not permitted).

Figure 22 Login Error Screen 1

If there are multiple logins or the number of allowed logins is exceeded, an error message will be displayed and the login page will be displayed again after 5 seconds.

The figure shows two screenshots of a login error screen. The top screenshot shows the error message '他のクライアントがログイン中です。しばらく待ってからログインし直して下さい。' (Another client is logging in. Please wait a moment and log in again.) The bottom screenshot shows the error message 'ログイン数が制限値を超えています。しばらく待ってからログインし直して下さい。' (Login count has exceeded the limit. Please wait a moment and log in again.) Both screenshots show the login page with a 'Welcome to Zao Cloud View v1.5' header and a '5秒後にログインページへ戻ります' (Return to login page in 5 seconds) message.

## 4 menu

The following menu will appear on each page after login.



Figure 24 Menu

A) Zoom in/out

Switches the menu display between a reduced view with only icons or an enlarged view with the contents displayed.

B) online status

Displays the communication status between the browser

and Cloud View. **online**: The browser is

communicating with Cloud View normally. **online** Failed to communicate with Cloud View.

You will need to restart your browser or re-login.

C) dashboard

Moves to the top page (dashboard), which displays the simple status of Cloud View.

CPU usage/HDD usage/total number of recorded files/total number of created users will be displayed.

Only the CPU usage rate is displayed for users who are not allowed to store video.

- D) live transmission  
You will be redirected to the Live Streaming page. You can view the live streaming video.  
\*Users who are not authorized to access the live-streaming page will not be able to access it.
- E) stored image  
Moves to the Stored Video page. You can view recordings of past live broadcasts.  
\*Users who are not authorized to access the stored video page will not be able to access it.
- F) Transmitter Management  
Moves to the Transmitter Management page, where you can assign a terminal name for the transmitter as displayed in Cloud View.  
\*Only displayed if you have administrator/site administrator privileges.
- G) Group Management  
You will be redirected to the Group Management page. You can set the groups to which users belong and divide the rooms they can view.  
\*Only displayed if you have administrator/site administrator privileges.
- H) User Management  
Moves to the User Management page. Create, delete, and assign privileges to users.  
\*Only appears when you have administrative privileges.
- I) External Camera Management  
Moves to the External Camera Management page, where you can register and edit RASCOW2 devices.  
\*Only appears when you have administrative privileges.
- J) Login Management  
Takes you to the login management page, where you can view your login status to Cloud View.  
\*Only appears when you have administrative privileges.
- K) Configuration Management  
Moves to the Configuration Management page, where you can make changes to Cloud View settings.  
\*Only appears when you have administrative privileges.

## 4.1 Top page (Dashboard )

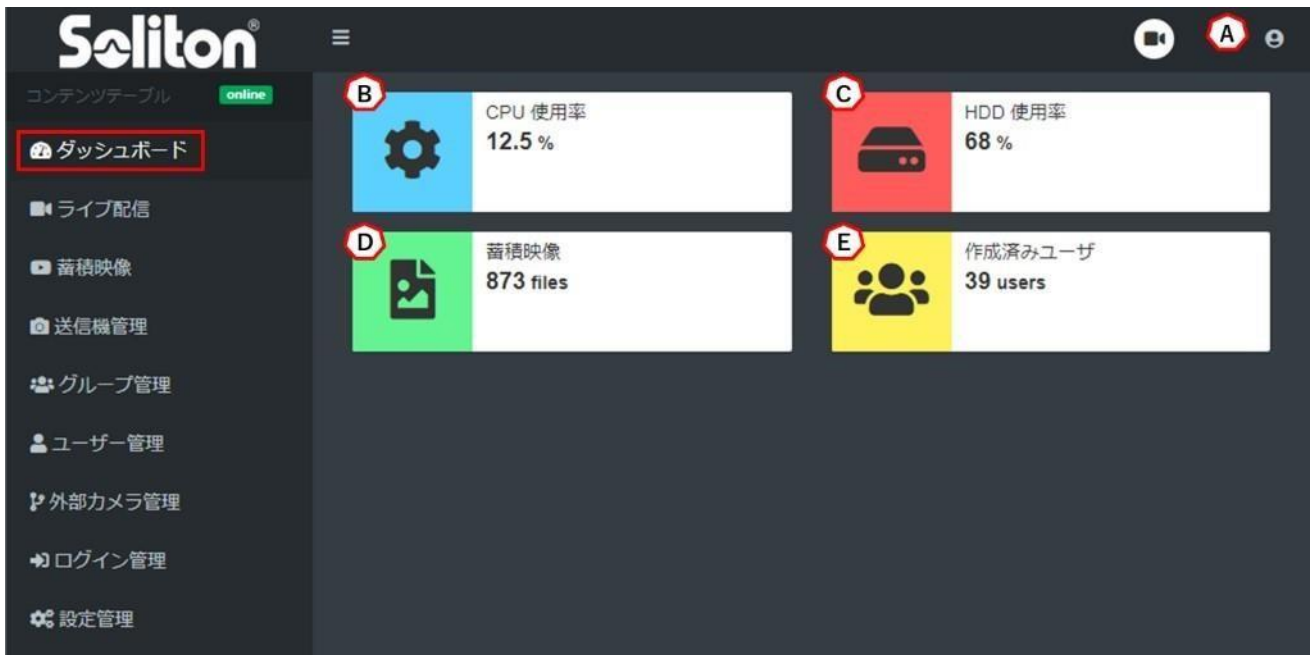


Figure 25 Dashboard page

- A) Login Account  
Displays the privileges and user name of the currently logged in account.
- B) CPU Usage  
Displays the current CPU usage of the Cloud View.
- C) HDD Usage  
Displays HDD utilization for Cloud View.
- D) stored image  
Displays the total number of files recorded in Cloud View.
- E) Created Users  
Displays the total number of users created by the administrator.

## 5 Live Streaming Page

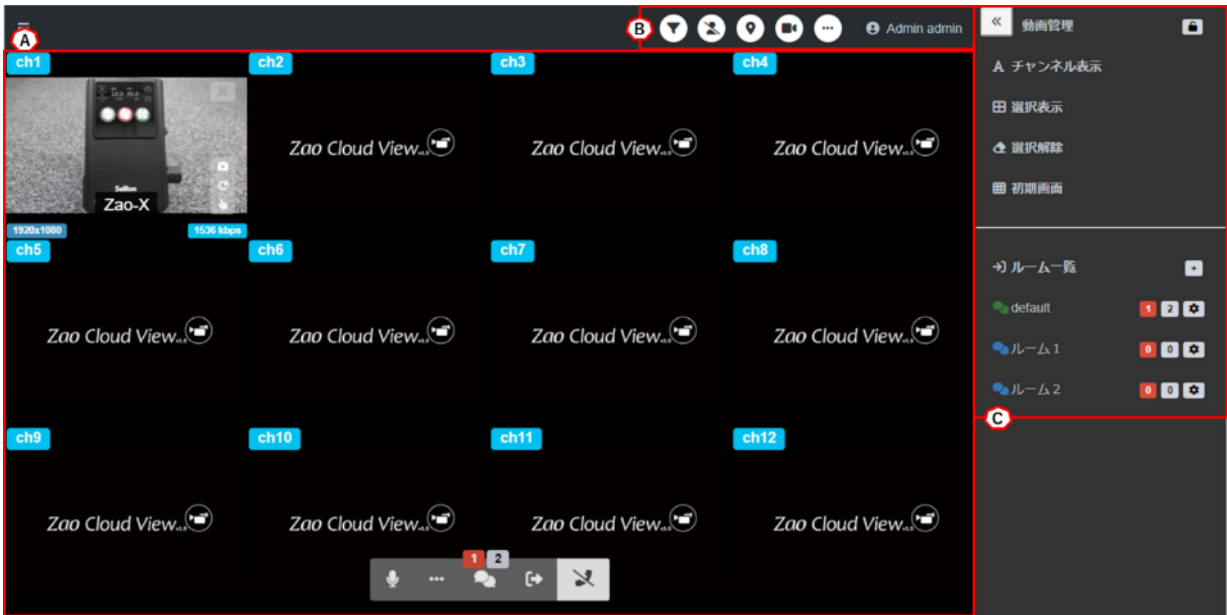


Figure 26 Live Streaming Page

## A) preview area

The live video feed will be displayed. Mouse over the video to see the audio buttons, etc.

## B) toolbar

Buttons for video/audio distribution system and relay terminal operation buttons are displayed.

## C) sidebar (as on a web page)

The operation buttons in the preview area and the list of meeting rooms are displayed.

5.1 preview area

5.1.1 preview



Figure 27. Preview (Normal )



Figure 28 Preview When using PTZ cameras (Zao-S, Zao-X, Onvif)

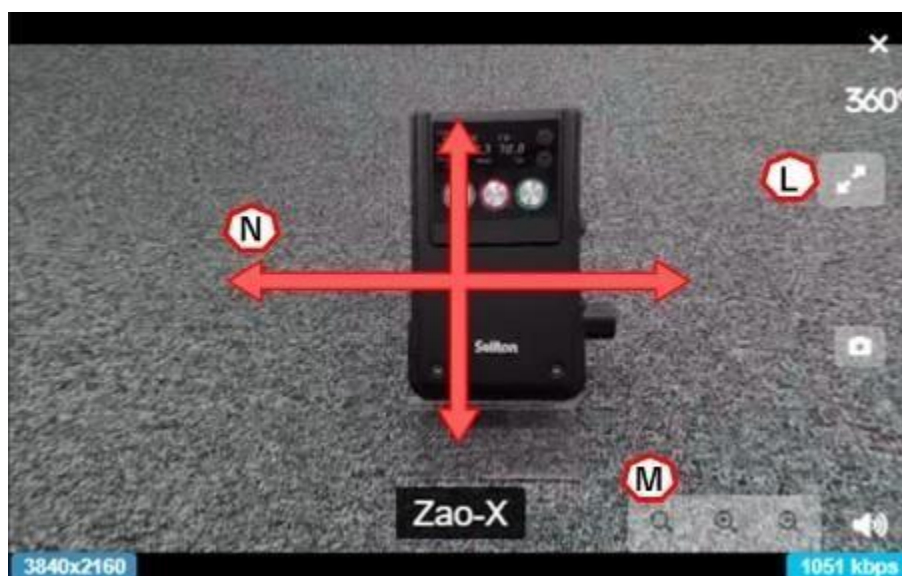





Figure 29 Preview (Zao-X, 360° mode)



- A) resolution (e.g. display, dpi)  
Displays the resolution of the image being displayed.
- B) caption  
Displays the name of the terminal.  
\*If no terminal name is set, the serial ID of the terminal is displayed.
- C) bit rate  
Displays the bit rate of the video being displayed.
- D) Audio output/mute  
The audio of the video being displayed can be played/muted. The icon indicates the current status.  
 Playing  
 Mute
- E) Stop playback  
Stops the currently displayed image.  
Resume by pressing the Play button or reloading the live-streaming page.
- F) serial tunneling  
 Serial data transmission/reception communication with the target transmitter is enabled by pressing See "[5.1.5 Serial Tunneling](#)" for details.
- 
- G) Still image acquisition button to obtain a still image of the preview. For details, please refer to "[5.1.2 Obtaining a Still Image](#)".
- 
- The screen rotation angle is not retained.
- H) screen rotation  
Rotates the currently displayed video screen. Each time the button is pressed, it rotates 90 degrees to the right.

- I) Zoom operation button allows you to zoom in on the preview screen. For details, please refer to "[5.1.4 Zoom Operation](#)".

Zoom operation of the transmitter's camera is not possible.

- J) PTZ Camera Controller

PTZ cameras and PTZ-enabled IP cameras connected to Zao-S or Zao-X can be operated.

Administrators can change whether or not they are authorized to operate the system on the User Management page.

You can also change the display/non-display of control buttons on the transmitter management (Zao-S) and external camera management (Zao-X) pages.



Camera lens orientation can be moved up, down, left, or right.



PTZ: Allows the camera to move to a position pre-set by the PTZ camera.

(Preset position)

- K) PTZ camera controller (zoom)



Zoom in/out on the video.

- L) Full screen display (360° mode)


Make the preview full screen.

- M) Zoom operation (360° mode) button to zoom in on the image on the preview screen. Return to initial screen



Zoom in:



Zoom out  :

Zoom in

- N) 360° viewing (360° mode)

By dragging and moving on the preview, you can view the entire 360° view.

### 5.1.2 Still image acquisition

A still image of the target preview can be acquired. Rotation cannot be saved.  
Administrators can change permissions on the User Management page.

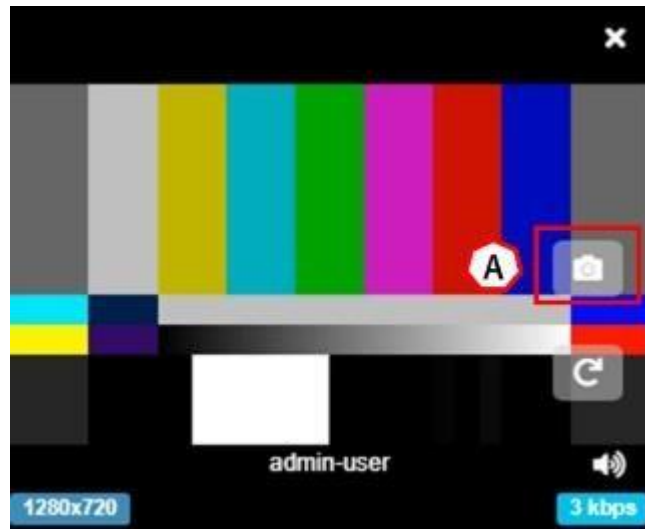


Figure 30 Preview screen

#### A) Still image acquisition button

button to acquire a still image of the target preview screen. The still image is displayed in a list at the bottom of the screen, but is not yet saved. Select the desired still image to download or delete it from the list.

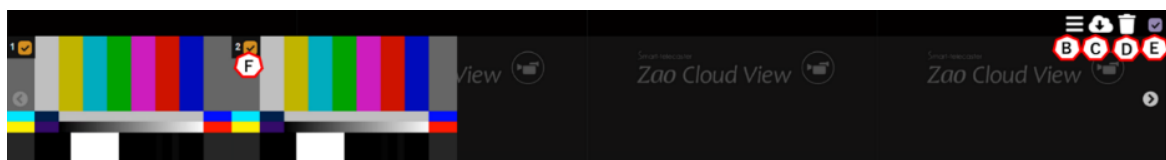
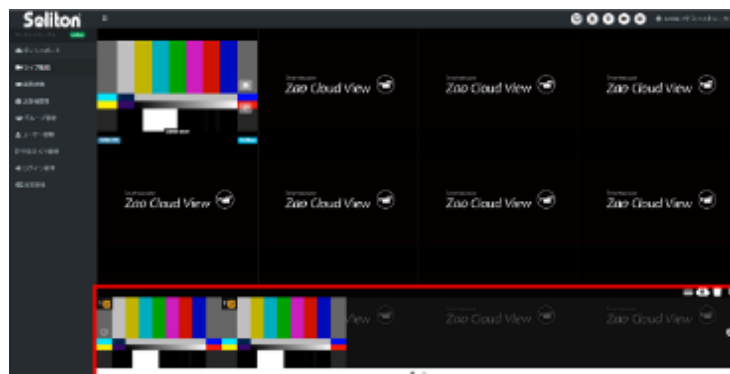


Figure 31 Still image acquisition list

## B) Show/hide still image list

By pressing the button, you can show/hide the still image list displayed in the lower row.

## C) Download

Download the selected still image(s).

The file naming conventions are as follows

No	file-name	remarks
1	[year, month, date, time, minute, second].zip	Naming convention for saved zip files
2	[year, month, date, hour, minute, second]_[4 - d i g i t random number].jpg	Naming convention for still images stored in zip

## D) deletion

Deletes the selected still image.

## E) batch selection

Below (F) checkboxes can be selected ON/OFF a t once.

## F) Designation checkbox

By checking a check box for each still image, you can select contents to be deleted or downloaded.

e) You can also turn on/off the check box for all still images by selecting them all at once. Up to 10 still images can be acquired. If the limit is exceeded, the following dialog box will appear. Please adjust the number of images by deleting some of them.



Figure 32 Error message when acquiring a still image beyond the upper limit



### 5.1.3 button toolbar

The button toolbar appears at the bottom of the preview area. It appears when the mouse hovers over the preview area and hides when no mouse operation is performed for 5 seconds.



Figure 33 Button Toolbar

#### A) Room Participants

Displays the number of users and transmitters currently participating in the room.  Displays the total number of transmitters that are currently broadcasting live.  Displays the number of users currently logged in to the room.

icon, users and transmitters participating in the current room will be displayed.

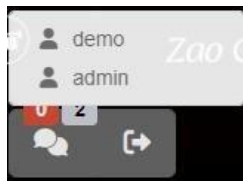




Figure 34 Room Participant Button

It also switches ON/OFF (display/non-display) of images to the preview area individually.  ON state (OFF by pressing the button)

 OFF state (Turn ON by pressing the button)

Turning OFF does not interrupt the relay (it only hides it in the preview).

#### B) room switching

Pressing the button displays a list of rooms that the user can join.

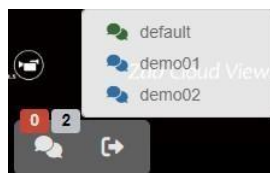


Figure 35 Room switching button

## 5.1.4 Zoom operation

The Zoom button can be pressed to operate zooming of the image in the target preview. Zooming of the camera on the transmitter side is not possible.



Figure 36 Zoom function ON

Pressing on the preview will move the screen toward that direction.



Figure 37: Navigating the preview screen

Zoom in/out on the preview screen by pressing the Zoom button.



Figure 38 Zoom -in operation on the preview screen

## 5.1.5 serial tunneling

Serial communication with the target transmitter.

Confirm that the "User serial speed" on the [User Management page](#) and the "Serial speed" on

[the External Camera Management page](#) have the same value.

Refer to [5.2.1 Serial Port Connection/Disconnection](#) to confirm that the serial port is already connected .



indicates that communication is stopped. Pressing this button starts communication.



In the communication in progress state, the TX and RX indicators blink when data transmission/reception occurs. Pressing the button again moves to the stop state.

## operating authority

## ➤ Number of simultaneous use

The viewing application is limited to one operation authorization on the transmitter.

If serial tunneling to one transmitter is already in progress, an attempt to perform serial tunneling to another transmitter will result in a warning dialog box as shown below.

To obtain the right to operate another transmitter, stop the current serial tunneling communication before doing so.

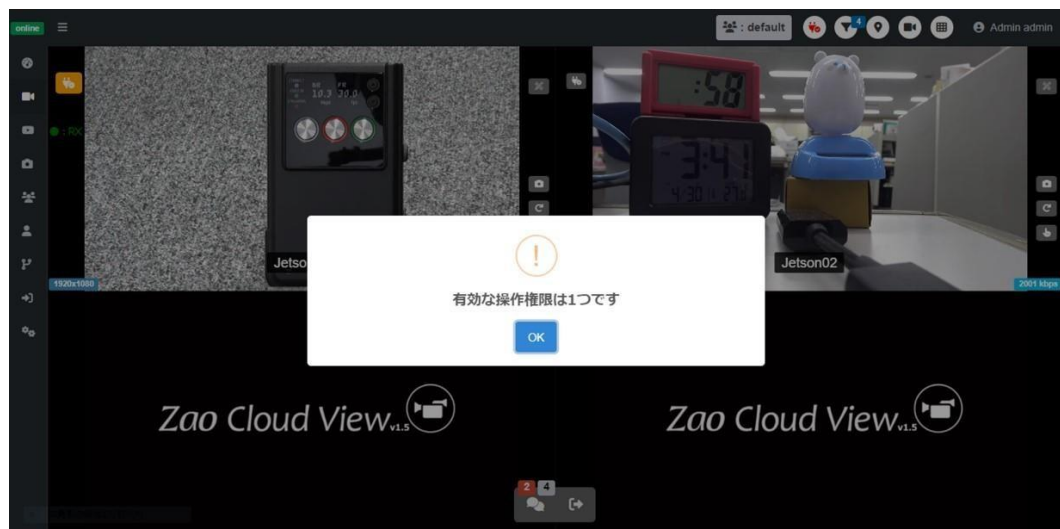


Figure 39 Warning dialog for serial tunneling

➤ Show/Get Operation Rights

While one user is using Serial Tunneling, other users will see the user name in use.

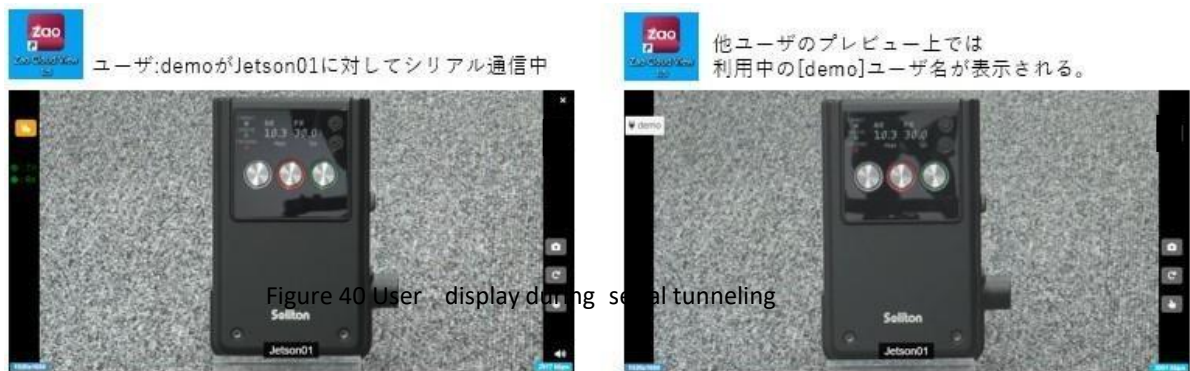


Figure 40 User name display during serial tunneling

In order for other users to use Serial Tunneling, they need to acquire control rights. In the above example, when  demo is clicked, a confirmation dialog box will be displayed.



Figure 41 Confirmation dialog for serial tunneling

Pressing OK switches the operating rights.



## 5.2 toolbar

Buttons indicating each function are located on the right side of the header area.

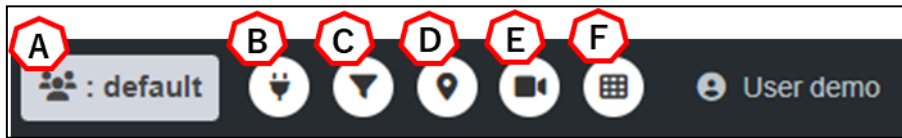


Figure 42 Toolbar

A) Room Name

The name of the room currently occupied is displayed.

B) Serial port connect/disconnect

For details, [see See 5.2.1 Serial Port Connection/Disconnection.](#)

C) Preview selection display

For details, [see See 5.2.2 Preview Selection Display.](#)

D) Map display

For details, [see See 5.2.3 Map Display.](#)

E) terminal list view

For details, [see See 5.2.4 Terminal List Display.](#)

F) sidebar button

For details, [see See 5.2.5 Sidebar Buttons.](#)

### 5.2.1 Serial port connect/disconnect

 The available serial ports are listed by clicking on "Connect". Select the one you want to use and press  "Connect" to connect it, and the icon will change to  icon will change to  icon will






The selected serial port is stored in the viewing application and will be automatically connected the next time it is launched. The serial port will be disconnected by pressing it again. (The stored port number will not be deleted.)

(\* ) A serial device must be connected to the PC on which the viewing application is installed.

Preview selection display

Sort the preview area to display only the selected previews.

5.2.2 Preview selection display

- (i) Press the filter button  to enter the mode to select preview.
  - ② Select the preview you want to sort by. Select the previews you wish to sort by.
  - (iii)  Selected preview  
 Unselected preview
- After selecting the preview screen, press the Filter button again.
- ④ Only the selected preview will be displayed.  
To cancel the preview selection, press the Filter button again.

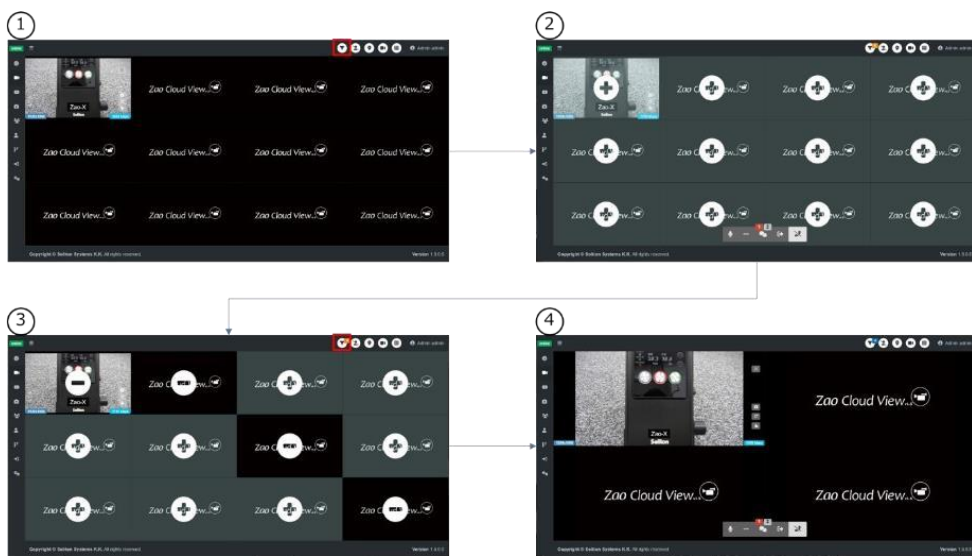


Figure 44 Preview selection procedure

### 5.2.3 Map display

Displays the current location of the relayed transmitter on a map



Press the : button to display the map page .



Press the : button to close the map page .

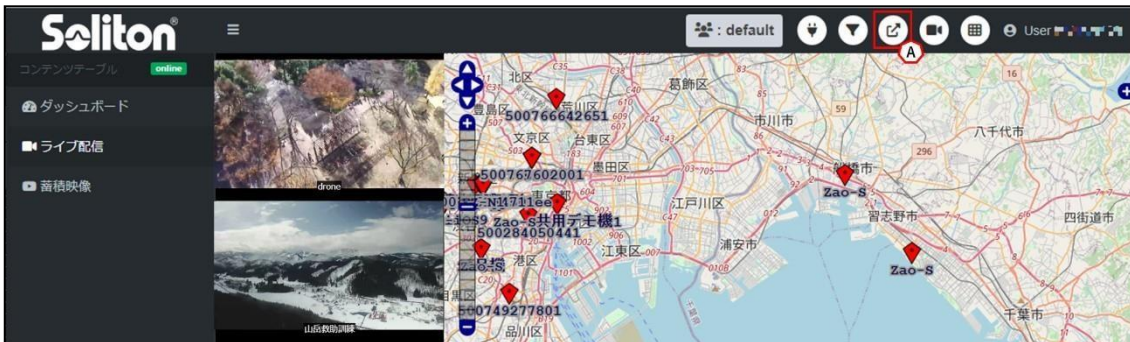


Figure 45 Map Display

While participating in a room, pressing the Map View button (A) displays a map in the right pane and plots transmitters with GPS information on the map. The plotted markers will change depending on the status of the transmitter.



Suspended: Terminal not powered on or network disconnected

The coordinates displayed on the map are the last GPS



location Standby: The device is turned on and only GPS positioning



information is being communicated Live: Live broadcast is in progress.



The display area of the map can be changed up, down, left, or right by pressing the :  
You can change the scale of the map by pressing : +/-.



The scale of the map can also be changed by operating the slider.

### 5.2.4 terminal list view



A list of relayed transmitters can be displayed and various settings can be made. Press the  button to display the terminal list. Press the  button to close the terminal list.




Figure 46 Terminal List


- A) search (e.g. for someone using a search engine)  
Search for display name, transmitter name, etc. by entered character string.
- B) Display Name/DispName  
Name used in live broadcast previews or on map markers.  
If not set, the transmitter name/CamName is used as the name.  
\*Only the administrator or site administrator can change the display name from Transmitter Management.
- C) Transmitter Name/CamName  
The name of the terminal to be set on the transmitter side.  
If not set on the transmitter side, the serial ID of the transmitter will be displayed.


## D) Status

Displays the current status of the terminal.

 Stopped: Terminal not powered on or network disconnected

Standby: Terminal powered on and ready for live relay Live: Live relay is in progress

 Processing: Loading display during processing such as connection

start/disconnection  Live: During relay in other rooms or during connection/disconnection process

## E) Map Movement

Pressing the transmitter name performs the action to the terminal on the map.

(1) ① (2) Single click (single tap)

Move so that the target terminal is in the center of the map.

② Double-click (double-tap) Double-click (double-tap)

The desired terminal is moved so that it is in the center of the map. In addition, the map is zoomed at the same time.

## F) Start/Stop relay

\*The start/stop relay operation requires that the slave\_level of the target license be 2 or 3.




If the status is  in standby, press the  button to display the following dialog  
Press OK to instruct the transmitter to start live relay .



Figure 47 Start ofRelay

When the status is  during live relay , the following dialog is displayed by pressing






the  button , and by pressing OK , you can instruct the transmitter to stop live relay.

Figure 48 Stopping Relay

G) With/without coordinate information

You can check whether or not the location information of the target device is being received. A red pin  indicates that location information is being acquired.

H) Line graph display

 The button is displayed on the terminal that can display the line information graph. By clicking the button, a graph of line usage for 5 minutes will be displayed.

Data rate indicates the total amount .

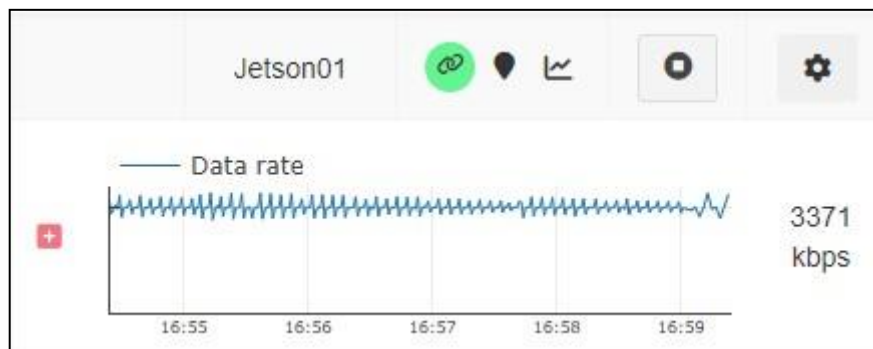
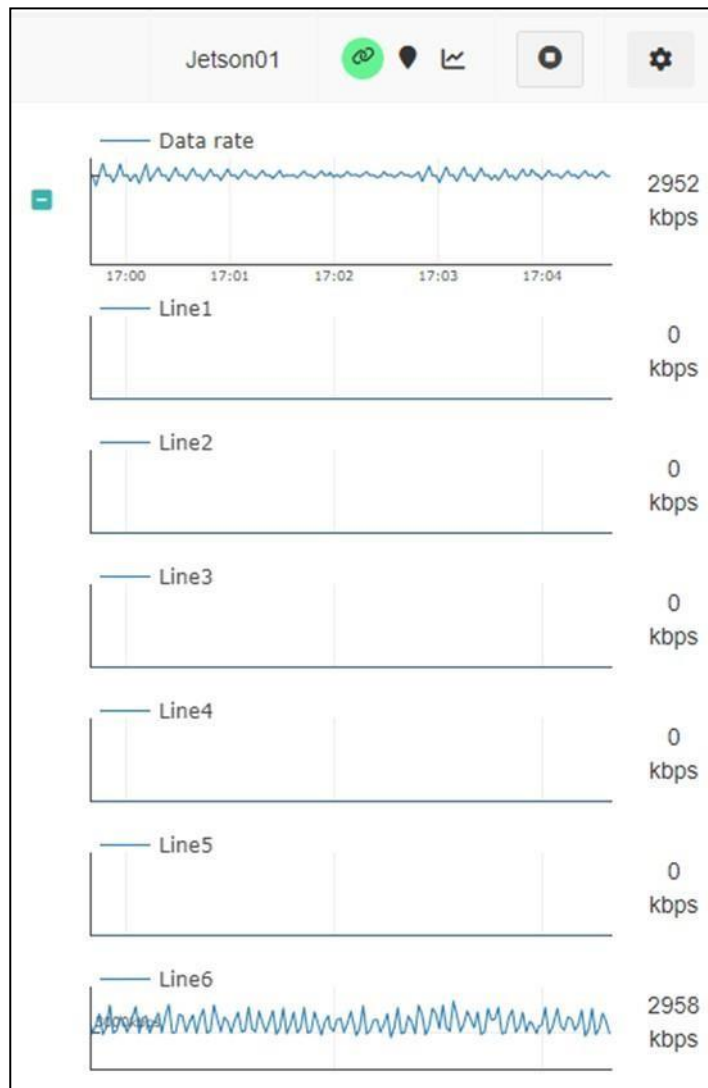


Figure 49 Line graph 1

**+** You can list information on multiple lines by pressing It is not possible to display graphs for multiple terminals at the same time.



I) Preview Play/Stop

Turns ON/OFF (display/non-display) of images to the preview area individually.



ON state (OFF by pressing the button)



OFF state (Turn ON

by pressing the button)

Turning OFF does not interrupt the relay (it only hides it in the preview).



## J) Set button

By pressing the Setup button, the following transmitter setup form will appear. Within the form, you can change the live broadcast settings.

(\*) Video during relay will be disconnected when the setting is changed.

Audio is not available in this release.



Figure 51 Transmitter Setup Form

Table 2 Transmitter Setup Form List of setting items

(data) item	Contents	set value (e.g. of a function, parameter, etc.)
Serial      Serial	Terminal license key (cannot be changed)	
Transmitter Name	Transmitter name (cannot be changed)	Can be changed in External Camera Management
Room Name: Room Nickname	Name of the room to which the transmitter belongs	Can be changed in External Camera Management
Jitter Buffer	Amount of buffer for rendering	(0-3000) msec
Video bitrate	Video bit rate	(500~12000) Kbps
Transport mode	RASCOW2 line mode	0:Bandwidth 1: Low-Latency
Audio	RASCOW2 Audio mode	Disabled

### 5.2.5 sidebar button

Set to show/hide the sidebar.

 Hides the sidebar by pressing down on it. : Press to show the sidebar.

If there are terminals whose video display in the preview area is turned off, the number of terminals turned off is displayed in a green frame.



Figure 52 Displaying the number of hidden terminals

## 5.3 sidebar (as on a web page)



Figure 53 Live Streaming Page Sidebar

- A) Sidebar open/close button



Close the sidebar.

\*To redisplay the sidebar, press the Sidebar button on the toolbar.

- B) Sidebar lock button

The sidebar can be locked open.

Locking the sidebar area is always visible. The button indicates the current state.



Open state




Locked state

- C) channel display  
Shows/hides labels set in the preview area.
- D) choice indication  
Switches to displaying only the preview selected in the preview area. By pressing "Show Selection" with a preview selected, only the selected preview windows will be sorted and displayed. The number of selected preview windows is displayed to the right of "Show Selection".



Figure 54 Number of preview windows selected

- E) deselection  
Deselects the preview.
- F) opening screen  
Restores the preview to its initial display.
- G) Room List  
The currently selectable rooms are listed.

If you are logged in as an administrator/site administrator user, the  button will appear and you can create a new room.

The room you are currently participating in will be displayed at the top of the list. The order of display is as follows.

#### Default Room Applicable Users

Currently participating rooms(\*1) > Default rooms(\*2) > Number of distribution in descending order(\*3)

#### Default Room Not Applied User Currently

Participating Room >

Number of Distributions Descending

Order


If there are the same number of deliveries, they will be displayed in the order of room creation.





Figure 55 Room List

## H) Room Participants

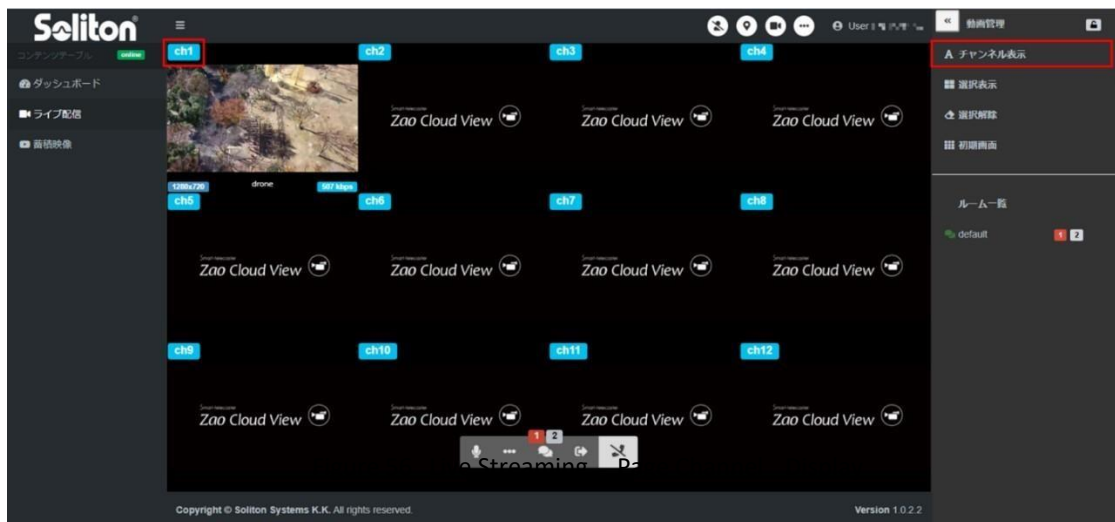
The users and transmitters currently participating in the room are displayed.

If you are logged in as an administrator/site administrator user, you will see the  button, where you can edit the room name and change the group ID.

 Displays the total number of users who are currently transmitting/speaking on the live broadcast.  Number of users who are currently logged into the room.

### 5.3.1 channel display

By pressing down on the channel display, the label appears in the preview area. By pressing again, the label will disappear.



### 5.3.2 choice indication

By pressing down on the window in the preview area, a selection is made, bracketed by a red frame. The number of selected windows is shown to the right of the "Selection Display". By pressing down on the selection display, the display is sorted to show only the selected windows.

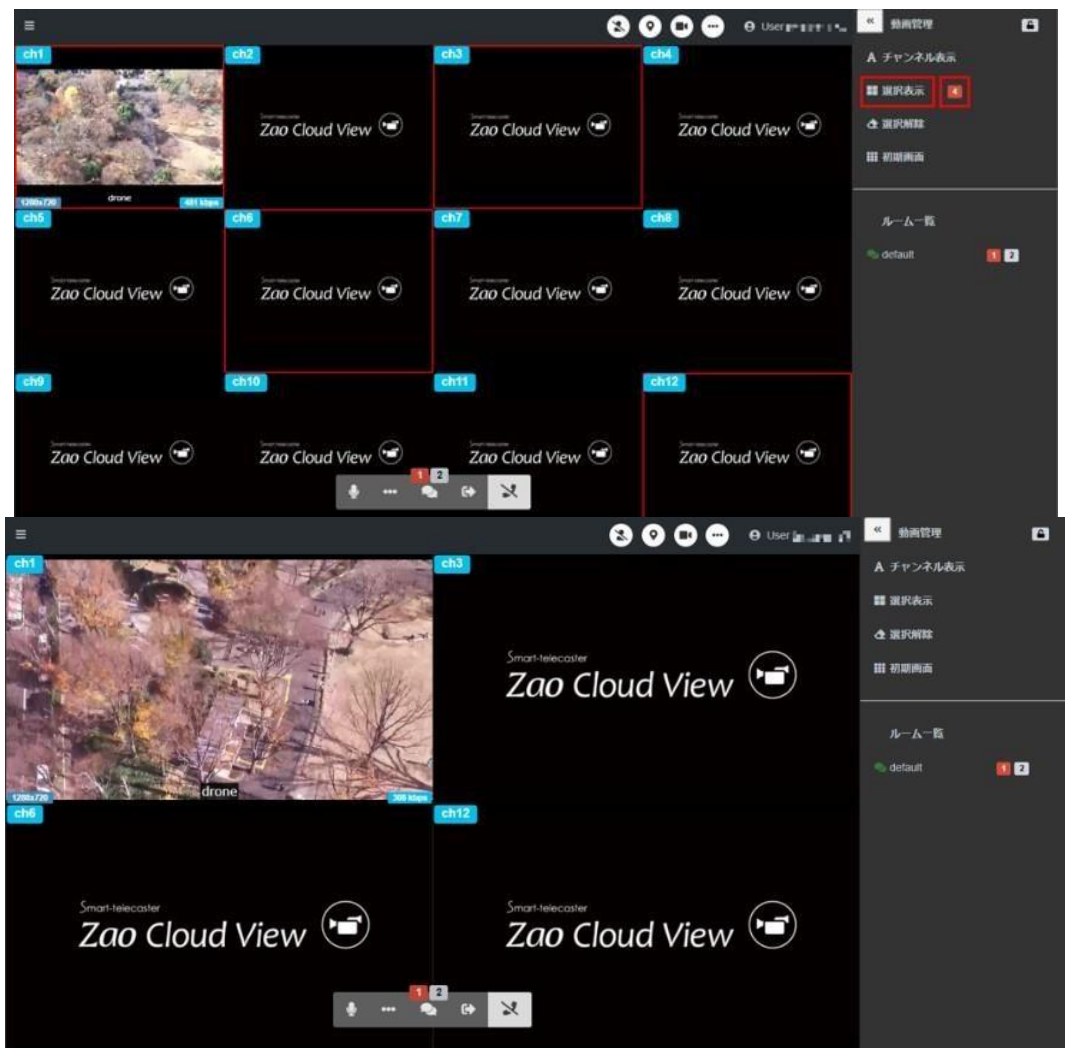


Figure 57 Live Streaming Page Selected Display

### 5.3.3 deselection

Resets the preview window marked with a red frame by the selection.

### 5.3.4 opening screen



Pressing the button clears the selection display and returns the preview area to the initial screen.

## 5.3.5 Room List



Figure 58 Live Streaming Page Room List

## A) Participation Status

The icon  is displayed in green when you are in a room and  is displayed in blue when you are not in a room. You can join/leave the room by clicking the icon.

\*You cannot participate in more than one room at the same time.



Figure 59 Room Join/Exit Confirmation Dialog

The room is automatically joined when the live-streaming page is displayed.

The participation policy is as follows (non-default room = non-default room non-assignment) a. If a default room is assigned, join the default room.

- b. If there is one room other than the default room that is assigned to you, you will be automatically joined to that room.
- c. If there are two or more rooms assigned other than the default room, a dialog box will appear prompting the user to select a room.



Figure 60 Room Selection Dialog

## B) Room Name

The name assigned to the room.

When the name is pressed, a list of participants in the corresponding room will be displayed.

## C) Number of deliveries

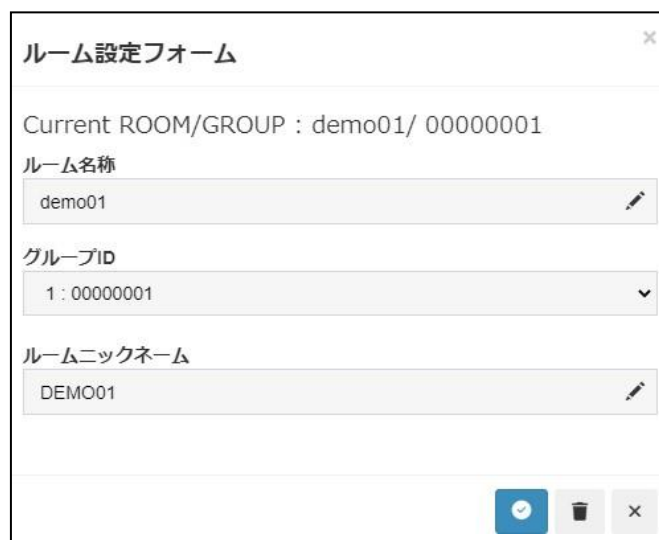
The total number of transmitters/speaking users who are broadcasting live in the room is displayed.

## D) Number of participants

The total number of transmitters/users currently participating in the room is displayed.

## E) Room Edit Button

It is displayed when a user with administrator/site administrator privileges logs in. Room name/room nickname can be changed.




The screenshot shows a web form titled "ルーム設定フォーム" (Room Setting Form) with a close button (X) in the top right corner. The form displays the following information:


- Current ROOM/GROUP : demo01/ 00000001
- Room Name (ルーム名称): demo01 (with an edit icon)
- Group ID (グループID): 1 : 00000001 (with a dropdown arrow)
- Room Nickname (ルームニックネーム): DEMO01 (with an edit icon)

At the bottom right of the form, there are three buttons: a blue checkmark button, a trash can icon, and a close button (X).




## F) User List


The list of users in the room is displayed.  Users who are currently logged in

 User: The user who is speaking

 Transmitter

 : User who is transmitting outside the preview area (if audio\_rescue is true in the configuration


management)


 : Transmitter outside the preview area (if audio\_rescue is true in the configuration

management)

## G) Video display ON/OFF

Turns ON/OFF (display/non-display) of images to the preview area individually.

 ON state (OFF by pressing the button)

 OFF state (Turn ON by pressing the button)

Turning OFF does not interrupt the relay (it only hides it in the preview).

## 6 Stored Video Page

Video during live broadcast and screen sharing is automatically recorded. Recorded content is automatically displayed on the Stored Video page after the live broadcast or screen sharing ends.

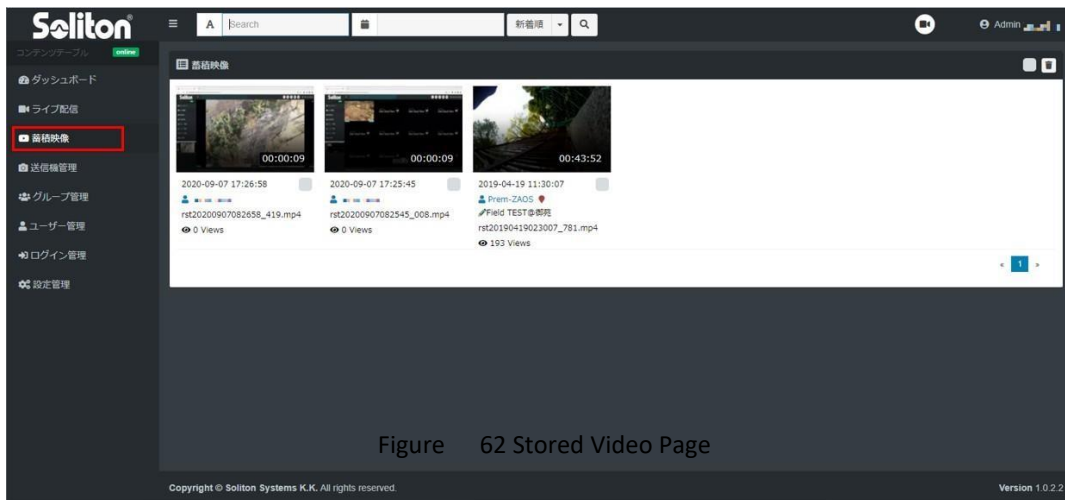


Figure 62 Stored Video Page

### 6.1 Content Summary



Content information is displayed as follows

Figure 63 Content Information

- A) Video Thumbnail
- B) Video Duration (hours:minutes:seconds)
- C) Shooting start date and time
- D) Photographer (name of terminal)
  - 📍 Displayed when positioning information is available during shooting
  - 🗣️ Displayed when there is a comment
  - 📷 input displayed when shooting in Zao-X and 360° mode.
- E) file-name  
 YYYYMMDDhhmmss\_[0-9].mp4  
 \*Year, month, date, hour, minute, second\_3-digit random number.mp4  
 \*File name is set by user management.  
 The value will be according to the timezone
- F) Views
- G) Check box for selective deletion

## 6.2 Content Search

The following methods can be used to search for content

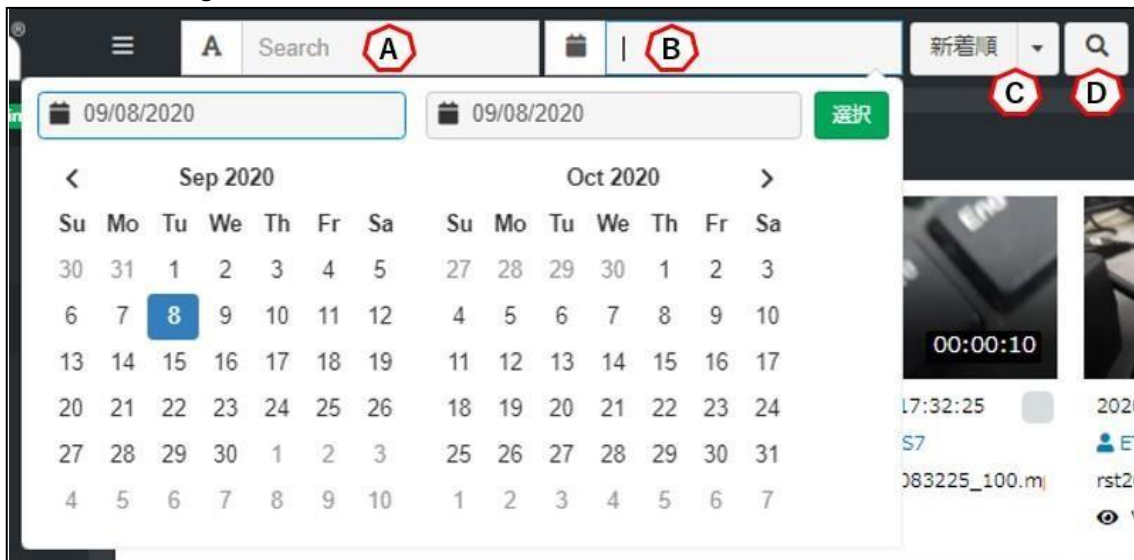


Figure 64 Stored video page content inspection ④ .

### A) character string search

Search for content by entering a search string.

The strings to be searched are as follows



Press "+" to clear the entry.

- (1) File name          File name
- ②. Photographer (name of terminal)
- 3)    Comment

### B) Date & Time Search

By pressing down on the input field, a calendar is displayed and the start and end dates of the search can be selected. The input contents are cleared by pressing



### C) sort condition

New/New : Specify the order of new arrivals.

View Order/Ratings: Specify the order of the number of views.

### D) Search Execute button

If there are no search conditions, the search is performed in the order of new arrivals. When each search condition is entered, AND search is performed.

\*Searches will be made for those that meet all the criteria entered.

### 6.3 Video playback screen

Displays the video playback screen. The video playback screen plays back recorded video and displays the location where the video was taken on a map.

\*Location information shows the location where the photo was taken in the past.

Figure 65 Stored Video Page Video Playback

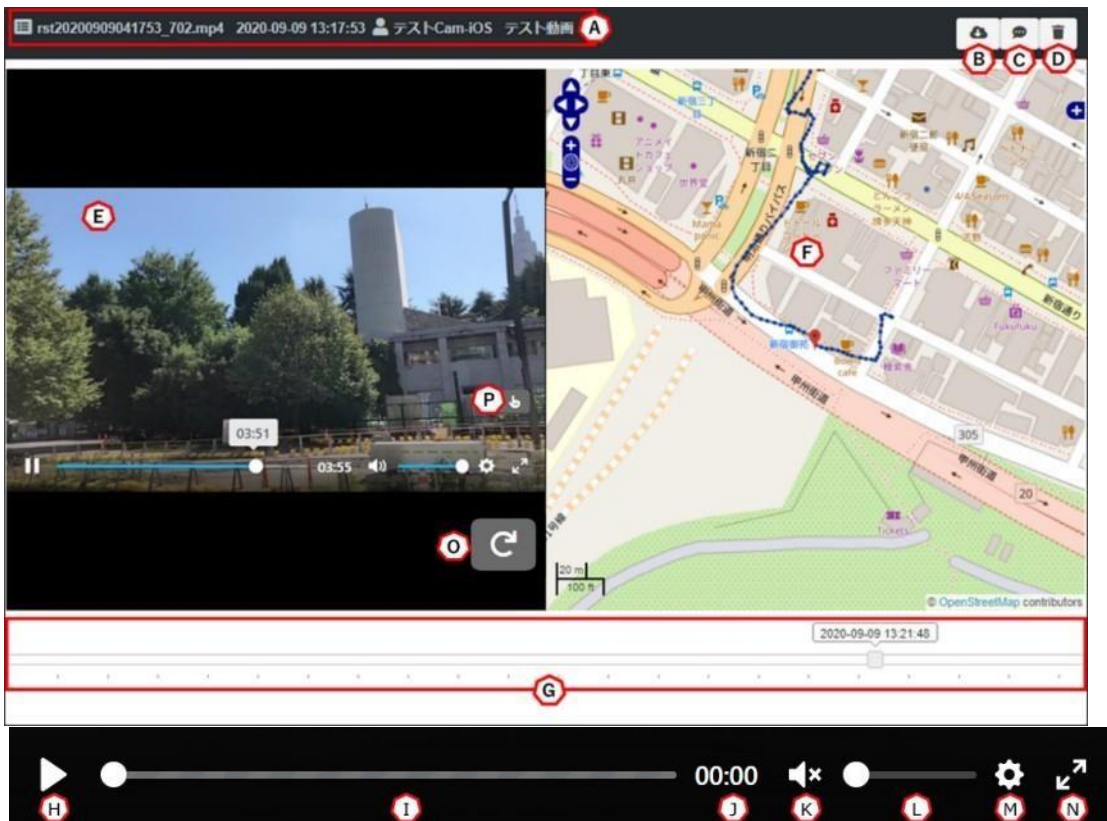


Figure 66 Stored Video Page Control

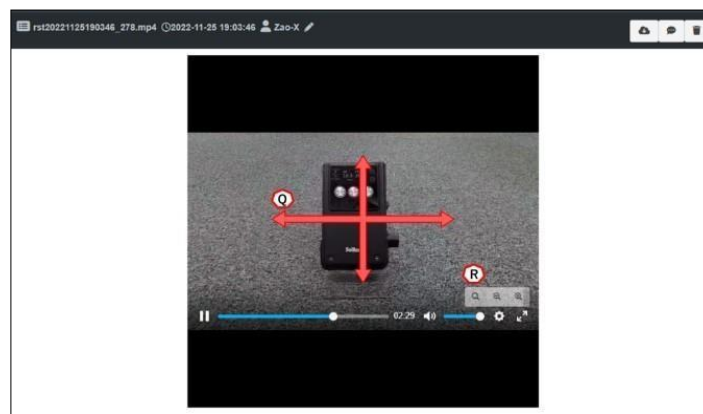


Figure 67 Stored Video 360° mode

## A) summary information


The file name, shooting date and time, photographer (device name), and comments are displayed.

## B) Download button button to download the file.

## C) Comment input button

Clicking the button displays a dialog box for entering comments.

Comments can be up to 20 characters long.

 to apply the entries .

 to cancel comment entry and close the dialog .



Figure 68 Comment Entry Dialog

## D) delete button

A confirmation window will appear by pressing the button.

Press "OK" to delete the file completely.

Click "Cancel " to close the dialog .



Figure 69 Deletion confirmation dialog

## E) playback window

The currently playing video will be displayed. Double-click (double-tap) to enter full-screen mode.


- F) Map display  
Displays the GPS positioning information at the time of the live broadcast. The position changes as the video is played back.  
If there is no GPS positioning information at the time of live relay, it will not be displayed.
- G) Slider with date and time  
You can seek video by dragging.  
Above the slider, the time during the live broadcast is displayed.
- H) Play/Stop button  
Press to play/stop the video.
- I) slider (usu. volume control)  
You can seek video by dragging.
- J) Display of playback seconds  
Displays the playback seconds of the video.
- K) Audio ON/OFF  
Pressing the button toggles ON/OFF. The default setting is mute (OFF).
- L) Audio Volume  
Adjust the audio volume by sliding.
- M) Playback speed change  
Changes the video playback speed, selectable from 0.5x to 16x.
- N) maximize screen time  
Double-click (double-tap) the video or press the maximize button to maximize the screen.
- O) screen rotation  
Rotates the currently playing video screen. Each press of the button rotates the screen 90 degrees to the right.


P) Zoom operation button allows you to zoom in on the preview screen. For details, please refer to "[5.1.4 Zoom Operation](#)".

Q) 360° viewing (360° mode)

By dragging and moving on the preview, you can view the entire 360° view.

\*These are displayed in recorded files taken in 360° mode.

R) Zoom operation (360° mode) button allows you to zoom in on the preview screen.  Return to initial screen

 Zoom out

 Zoom in

\*These are displayed in recorded files taken in 360° mode.



## 6.4 Selection and batch deletion 6.4.1

### Individual Selection

In the stored video list screen, you can select a video by clicking the check box.



Figure 70 Individual Selection

### 6.4.2 batch selection

By pressing the check button next to the Delete button, you can select all stored images in the displayed page.



Figure 71 Batch Selection

### 6.4.3 deletion

When the Delete button is clicked while one or more stored images are checked, a confirmation dialog box appears. Clicking the OK button in the dialog box deletes the selected stored images.

\*Stored images cannot be restored after deletion.



Figure 72 Deletion Confirmation Dialog



## 7 Transmitter Management Page

You can change how the transmitter is displayed on this system.

When using Zao SDK, the only item that can be changed is the display name.



Figure 73 Transmitter Management Page

Table 3 Transmitter Management Page Item List

item number	Contents	remarks
1	Display name	16 characters
2	Transmitter Name	10. The name registered on the External Camera Management page will be displayed.
3	serial ID	unchangeable
4	GID	Not displayed on RASCOW2 devices.
5	PTZ	This setting is for RASCOW1 and will not be used.
6	Set button	Change the display name, etc. of the transmitter. Refer to "7.1 Edit Settings".



## 8 Group Management Page

You can make created users belong to a group. On the Live Streaming page, you can enter the room of the group you belong to. On the Stored Video page, you can view the contents of the group you belong to.

\*When a user is created, he/she belongs only to the default group.

\*Users can belong to multiple groups.

\*Administrators can view all rooms and stored video regardless of group.

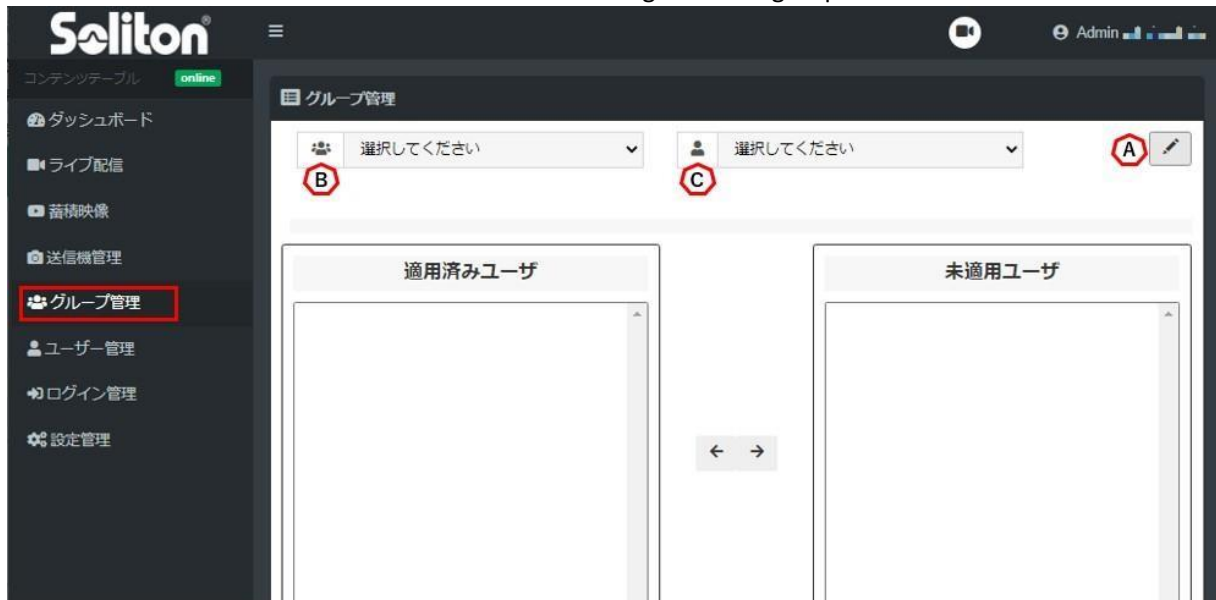


Figure 75 Group Management Page

## A) Group management button

Displays the Group Management dialog.

## B) Group settings

Sets the users who belong to the specified group unit.

When a group is specified, "Applied Users" lists users who belong to the group, and "Unapplied Users" lists users who do not belong to the group.


You can belong/exclude users by pressing the user name and then the  button in the center .




Figure 76 Group settings

## C) User Preferences

Sets the affiliation group for each specified user.

When a user is specified, "Applied Groups" lists groups to which the user belongs, and

"Unapplied Groups" lists groups to which the user does not belong.

You can join/leave a group by pressing the group name and then the  button in the center .

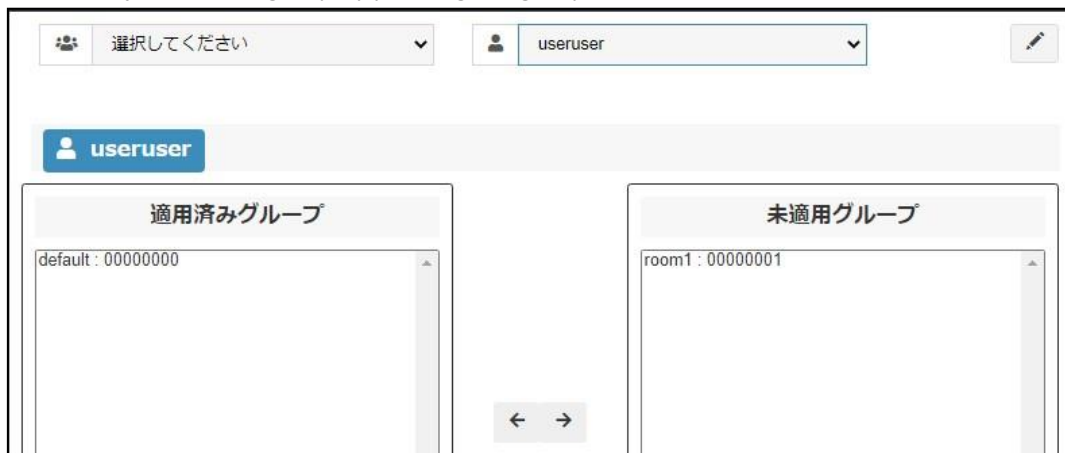


Figure 77 User Preferences

## 8.1 Group Management




Figure 78 Group Management Page Group Management Dialog

## A) GID

Displays and selects the group IDs that have already been created. Default group cannot be selected.

## B) add a group

Displays the Group Management dialog.

Enter a group name / group ID and click the  button to create a group.

- Group name: A name that identifies the group. Any name can be given.
- Group ID: An ID that identifies a group, displayed as an 8-digit number.

If less than 8 digits are entered, a 0-filled 8-digit ID is created.

New additions cannot be made using existing group names or group IDs.



Figure 79 Add Group Dialog

## C) Group Editing

Select a group that has already been created and edit the group information.

After editing is complete, click the  button to save the changes.

\*Changes to existing group names cannot be made.

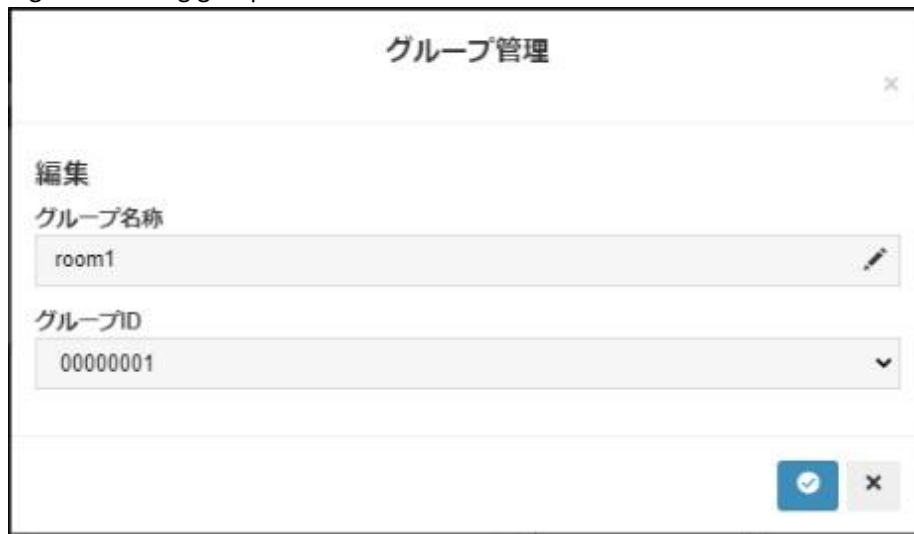


Figure 80 Edit Group dialog

## D) Group deletion

Deletes the group selected by group ID.

## E) cancel

Cancel the setting and close the Group Management dialog.

## 9 User Management Page

The list of created users is displayed. New additions and edits/deletions can be made on the management form that appears by clicking on a button.

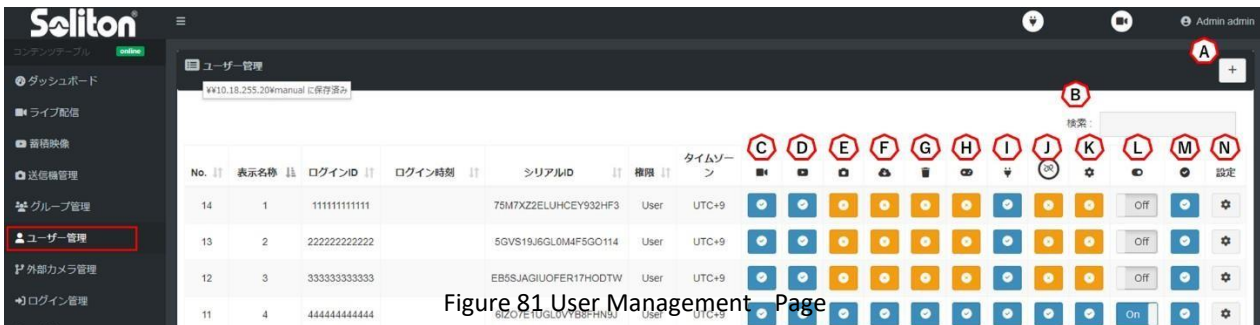


Figure 81 User Management Page

### A) Add New Button


By pressing the add button  the user management form will appear .

Figure 82 User Management Form



Apply the entries.



Cancel and close the dialog.

Table 4 List of user specifications

item number	(data) item	(technical) specification	remarks
1	Display name	Alphanumeric characters and Japanese are acceptable.	Up to 12 characters
2	login ID	alphanumeric character	Up to 12 characters
3	login password	alphanumeric character	Up to 12 characters
4	authority	authorization selection	Admin, Site Management Manager, General (User)
5	time zone	UTC-14~+14	Default is +9 (JST)
6	User serial speed	2400/4800/9600/19200/38400/115200	Default is 115200

## B) search input box

You can search for the corresponding user by entering text.

The search target is No./display name/login ID/login time/serial ID/authority.

## C) Live Streaming Allow / Deny

Unauthorized users will not be able to view the live feed page.

## D) Stored video Allow/deny

Unauthorized users cannot view the stored video page.

## E) Still Image Acquisition Allow/deny

Unauthorized users will not be able to acquire still images.

## F) Stored video download Allow/deny

Unauthorized users cannot use the stored video download function.

## G) Stored video deletion Allow/deny

Unauthorized users will not be able to use the batch deletion and deletion functions for stored video.

## H) PTZ Camera Operation Allow/deny

Unauthorized users cannot operate the PTZ camera.

## I) Serial Tunneling Allow/Reject

Unauthorized users cannot perform serial communication.



## J) Relay Guidance Operation Allow/deny

Unauthorized users cannot start/stop relay operations from the terminal list.

## K) Camera setting operation Allow / Deny

Unauthorized users cannot configure camera settings from the device list.

## L) batch permission change

ON : Permission for live streaming/stored images/still image acquisition/stored image download/stored image deletion/PTZ camera operation/serial tunneling/relay guidance operation/camera setting operation can be changed to "Allow" at once.

OFF: Permission for live distribution/stored images/still image acquisition/stored image download/stored image deletion/PTZ camera operation/serial tunneling/relay guidance operation/camera setting operation can be changed to "Deny" at once.

## M) Login Allow / Deny

button to change the user's login permission/denial. The button indicates the current status.



Login Permitted State



Login denied state

## N) edit button

Clicking the button will display the input form.

The password is hidden and will not be changed if no characters are entered.

This form allows you to delete a user.



Apply: Apply the input contents.



Cancel: Cancel and close the input form.



Delete: Execute the deletion.

(\*) To apply the changed value of User serial speed, it is necessary to reload the browsing application or re-login.

ユーザ管理フォーム

ユーザ編集/削除

表示名称  
demo

ログインID  
demo

ログインパスワード

権限  
User

タイムゾーン  
UTC+9

User serial speed ( bps )  
115200

Figure 83 User Edit Form

The following dialog box appears when executing the deletion. Click "OK" to complete deletion. "Cancel" closes the dialog without deleting.

本当に削除しますか？ユーザは完全に削除されます

Cancel OK

Figure 84 User Management Page Deletion Confirmation Dialog

## 10 External Camera Management Page

Change settings related to the RASCOW2 device.

(\*)The number of devices initially registered will vary depending on the contents of the contract.




Figure 85 External Camera Management Page

### A) PTZ Operation

When Zao-X is registered, a button will appear in the PTZ item. By clicking the button, you can show/hide the PTZ control button in the preview area of the Live Streaming page.

The button indicates the current status.

 PTZ: PTZ control button display status


 PTZ: PTZ control button hidden

The button is not displayed when RTSP or Onvif is selected in the "Type" field.

### B) 360° mode

When Zao-X is registered, a button appears in the 360° item. By pressing the button, you can change the relay settings in 360° mode.

The button indicates the current status.

 360° mode relay state

 Normal relay state

The button is not displayed when RTSP or Onvif is selected in the "Type" field.

## C) Recording Availability

Simultaneous recording when entering RASCOW2 devices into CloudView.

## D) Activate ON/OFF

Once the dead/alive status is detected, input to CloudView will begin.

## E) Edit Settings

You can edit the settings of registered RASCOW2 devices. The settings edit screen is as follows.



The screenshot displays the 'External Camera Management Form' (外部カメラ管理フォーム) for editing the settings of a registered RASCOW2 device. The form includes the following fields and options:

- 送信機名称** (Transmitter Name): Jetson01
- Jitter buffer (msec)**: 100
- Video bitrate (kbps)**: 3000
- Transport mode ( Low-latency/Bandwidth )**: Low-latency ( 遅延優先モード )
- End to end delay display ( true / false )**: false
- Audio ( Embedded/External/Disabled )**: Disabled
- ルーム名称 : ルームニックネーム** (Room Name : Room Nickname): default : DEFAULT
- タイプ** (Type): RASCOW2
- Serial speed ( bps )**: 115200
- Show more line ( true / false )**: false

At the bottom right of the form, there are two buttons: a blue button with a white checkmark and a white 'x' button.

Figure 86 External Camera Edit

Table 5 External Camera Edit Items (RASCOW2)

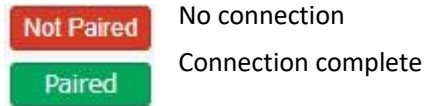
item number	Contents	remarks
1	Transmitter Name	Camera name (12 characters)
2	Jitter Buffer	Amount of buffer for drawing (0 - 3000 msec)
3	Video bitrate	Video bit rate ( 500 - 12000 kbps)
4	Transport mode	RASCOW2 line mode (0:Bandwidth, 1:Low-Latency)
5	End to end delay display	Enable/disable display of delay information in the live preview frame
6	Audio	In this release, it cannot be changed from Disabled.
7	Room Name: Room Nickname	Room Information
8	type	RASCOW2
9	Serial speed	115200 ( default ) (2400/4800/9600/19200/38400/115200)
10	Show more lines	Display limit of the number of lines graph i n RASCOW2

(\*) Please contact our support center when requesting additional devices, etc.

## 10.1 RASCOW2 pairing

Pairing with CloudView. By pairing, the transmitter will recognize CloudView as the destination and will be able to relay video.

(\*The transmitter must have set the Zao\_CLOUD\_URL information in your contract information. The following shows the pairing status.



- How to pair with RASCOW2 device (operation on the transmitter itself is required)

e.g.) Setting operation to Cloud mode on Zao-X

MENU > 5.Mode Setting > 5-3.Cloud/Direct > 2.Cloud Mode

- (1) ① Pairing number Pairing number is displayed on the transmitter. Example:

Zao-X

MENU > 1. Connection > 1 -2. Pairing > START

- ② Register the pairing number in CloudView. Register the pairing number in CloudView .

Press **Not Paired** on the External Camera Management page .

Enter the pairing number displayed on the transmitter from the Pairing Number entry form .

Figure 87 Pairing Number Entry Form

- (3)  The display changes to  Pairing is completed.

■ Unpair with RASCOW2 device

**Paired** Press again for the device that is  
that is

**Paired** again for the device

The following dialog box will appear. Click "Release" to cancel pairing. When pairing again, please make the Repairing setting in the transmitter's settings.



## 11 Login Management Page

The users who are logged in to the system can be listed. The contents of the display are as follows

No.	状態	表示名称	ログインID	ログイン継続時刻	ログイン時刻	シリアルID	IP Address	権限
1	Login			2020-09-09 16:26:27	2020-09-09 14:52:15	09HD5KOHGAZ01BHO36B8		admin
2	Logout	参加者01	useruser	2020-09-08 22:01:07	2020-09-08 20:25:15	MXZ0X30SS9K5YQBF824Z		user
3	Logout	管理者	adminadmin	2020-09-08 21:58:53	2020-09-08 17:14:30	9WA15IKAPIWDW99W03PQ		admin
4	Logout			2020-08-28 21:07:58	2020-08-28 20:17:23	12345678912345678912		admin
5	Logout				2019-03-18 13:19:44	JW46315QA71MVCDC6ZPZ		user
6	Logout	参加者02	useruser2			NBD2J9FP3HPF7ZQW7AGI		user
7	Logout					OHQD0G66DTCZY1G94H1F		user
8	Logout	参加者03	useruser3			N9EWH4PZTZ7TY3YE8J14		user

Figure 89 Login Management Page

Table 6 Login Management Page Item List

item number	Contents	remarks
1	condition	Whether you are logged in to the site or not
2	Display name	Name assigned to the user
3	login ID	user ID
4	Login Duration	If the viewing terminal is connected, the time is updated.
5	Login Time	Date and time the browsing terminal logged in
6	serial ID	User's serial ID
7	IP Address	Source IP address of the logged-in user
8	authority	User Authorization Information

A) search input box

You can search for the corresponding user by entering text.



## 12 Configuration Management Page

Change CloudView settings. No configuration changes are required after the initial setup. After changing the settings, the page needs to be reloaded.

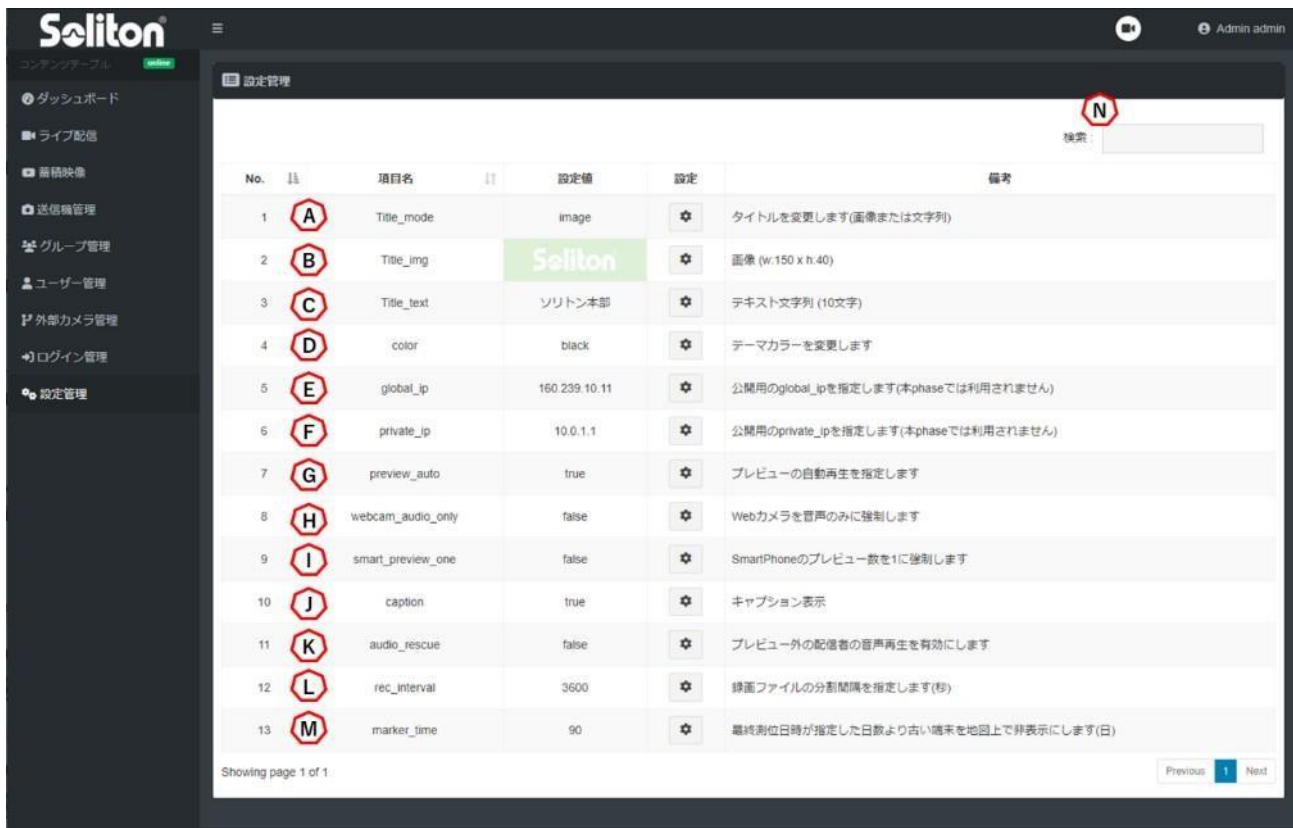


Figure 90 Configuration Management Page



Click the gear button of the item you want to change to display the change screen.



: Change the settings on the change screen and apply the entries.



Cancel the operation on the Change screen and close the Change screen.

Table 7 List of items on the configuration management page

item number	(data) item	(technical) specification	initial value
1	Title_mode	Title (image/text) to be displayed in logo area	Image
2	Title_img	Image to be displayed in the title	150(w) x 40(H)
3	Title_text	Text to be displayed in the title	10 Characters
4	color	Site theme color selection	black
5	global_ip	global_ip	unchangeable
6	private_ip	private_ip	unchangeable
7	preview_auto	When transmitter starts relaying, when screen sharing starts, video/audio Enable/disable automatic playback in the preview area at the start of sharing	true
8	webcam_audio_only	Forced audio only when video/audio is shared	false
9	smart_preview_one	When accessing CloudView on a SmartPhone, Set force preview count to 1	false
10	caption	Transmitter name displayed below each image in preview area	true
11	audio_rescue	Audio playback of out-of-preview distributors	false
12	rec_interval	Recording file split interval	3600 (sec)
13	marker_time	Maps the terminals whose last positioning date is older than the specified number of days. Hide in	90 (days)

## A) Title mode

You can set the title to be displayed in the logo area as an image or text.



Figure 91 Title image (image/text)

## B) Title image

Upload an image of the title.

If the title mode is "Image", it is displayed only.

Transparent png, 150(w)x40(h)px recommended

- C) Title text  
Set the wording to be displayed in the title.  
It is displayed only when Title mode is set to Text.  
Up to 10 characters
- D) Color  
Change the CloudView theme color.  
You can choose from five colors: blue, red, black, green, and purple.  
The theme colors are applied to all logged-in users.
- E) Not used
- F) Not used
- G) preview\_auto  
When the transmitter starts relaying or when the screen is shared, you can set whether the video is automatically displayed in the preview area.  
\*This is not an individual setting for each user, but applies to the entire system.  
\*Manual display can be operated from either the button toolbar in the preview area, the terminal list in the toolbar, or the room list in the sidebar.
- H) webcam\_audio\_only  
When video/audio sharing is used, you can force the system to participate in audio only.  
If True, audio only is enforced; if False, audio only is not enforced.
- I) smart\_preview\_one  
Force the number of previews in the preview area when accessing CloudView on SmartPhone  
Can be set to 1 if True, or the initial number displayed if False.
- J) caption  
You can show/hide captions (transmitter name, etc.) on the preview.  
If True, it is displayed; if False, it is hidden.  
The user name displayed when the video is muted in the simplified view is not hidden.

K) `audio_rescue`

Enables audio playback for out-of-preview distributors. Play only the audio of the delivered video that has stopped playing by itself or has exceeded the playback frame.

If True, audio is played; if False, no audio is played.

L) `rec_interval`

Specifies the split interval of the recording file.

M) `marker_time`

Hides markers on the map of the live-streaming screen for terminals whose last positioning date is older than the specified number of days.

N) You can sort the corresponding row by entering a letter.



## 13 Main Specifications

Table 8 Main specifications

(data) item		Contents
Main Functions		Live relay reception (one-way video) Stored video playback (*Audio interactive is not included in this release)
sales method		cloud service
Connectable Products		Smart-telecaster Zao SDK Smart-telecaster Zao-X
Number of simultaneous connections (transmitter)		12
Number of simultaneous connections (browser)		6
encoding method (Recording)	video codec	H.265, VP9
	audio codec	Zao SDK, Zao-X: Opus
	file format	MP4
operating environment	Browsing Applications	Zao Cloud View 1.5
	communication port	TCP 443 UDP 51114

Please use the following website for frequently asked questions.

<https://www.soliton.co.jp/stc/>