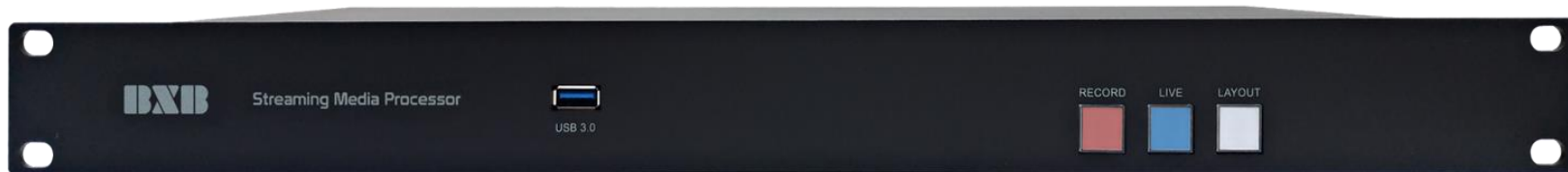


# Streaming Media Processor

## User Manual



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# Quick Reference Guide

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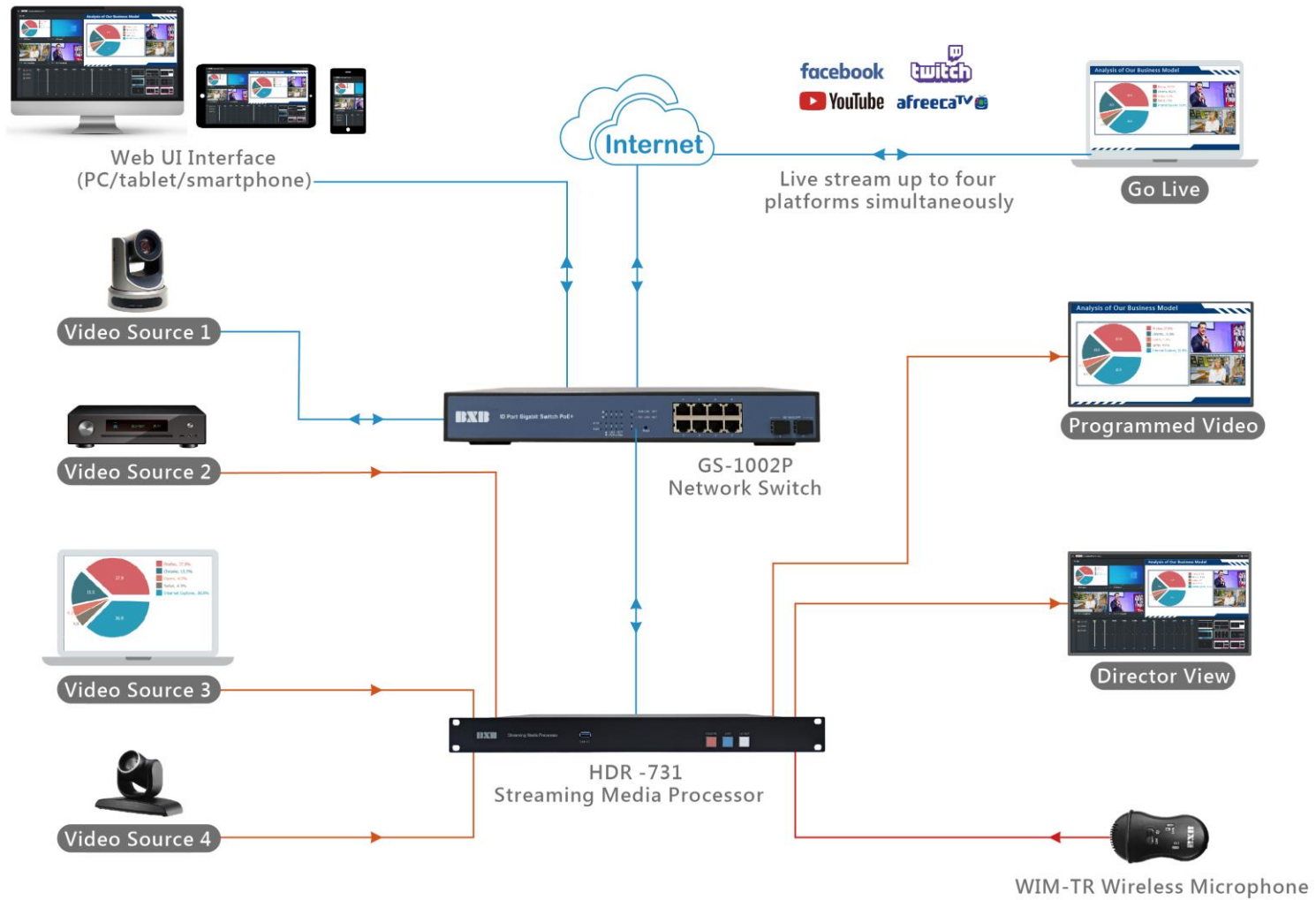
# Safety Instruction

1. Read the instruction manual carefully before installing and using this unit and keep this manual properly preserved.
2. Please follow the instructions and be aware of warning indications.
3. Do not use any spare parts without the recommendation of your dealer. Please use the fixing accessories offered by BXB. If the system is broken due to the improper fixing, BXB would not bear the responsibility for compensation.
4. Make sure the power cord has been fixed properly. Do not use any extension cords as this would result in fire or short circuit.
5. Do not stuff anything or spill liquid of any kind onto or into this unit.
6. Contact maintenance technicians if the conditions occur: A. Power cord or plug is damaged; B. Liquid has been spilled into the unit; C. The product does not work normally; D. The unit has been dropped or the cover has been damaged; E. The function cannot work completely.
7. Install this unit carefully. Impacting and fierce shaking should be avoided.
8. Do not disassemble or remodel this unit:
  - A. High voltage and sensitive electrical circuit are inside of the unit. Do not disassemble it to prevent electric shock.
  - B. The specification of any replaced spare part should be validated by manufacturer, or it may cause fire and short circuit.
9. Do not use this unit in the environment with improper temperature, moisture, and power level to avoid component damage. The adequate operation temperature is 0°C ~ 40°C (32 °F ~ 104 °F); relative humidity below 90%.
10. Do not expose the apparatus to rain and moisture. Please put it at a dry location to avoid any damage of the inside components. Adequate coverage is requisite if the unit is used outside.
11. Do not clean this unit and its accessories with liquid or chemical detergent. Just use a damp cloth for cleaning.
12. Do not switch on/off the power rapidly no matter it's operating or off. It can avoid the operation problem from the sensitive electronic circuit.

Caution: The static electricity treatment of printed circuit boards should follow ESD safety measure. Ground connection should be done well.

Caution: Please be aware of the voltage accordance with that in your country.

# System Diagram



# Description of the Panel

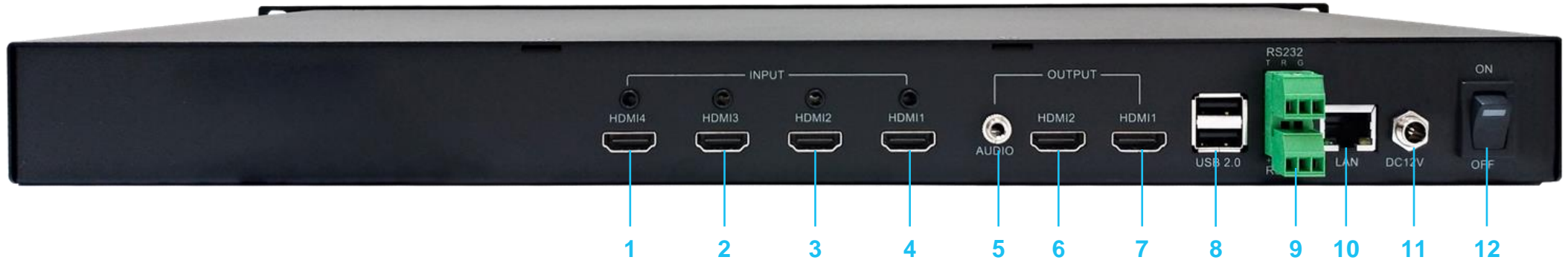
## Front Panel



1. USB 3.0 port: connects USB hard disk drive to save files.
2. Recording function button: start/exit recording.
3. Streaming function button: start/exit live-streaming.
4. Layout switch button: switch layouts sequentially.

# Description of the Panel

## Rear Panel



1. CH1 input: connects HDMI, 3.5mm audio input as recording / streaming signal.
2. CH2 input: connects HDMI, 3.5mm audio input as recording / streaming signal.
3. CH3 input: connects HDMI, 3.5mm audio input as recording / streaming signal.
4. CH4 input: connects HDMI, 3.5mm audio input as recording / streaming signal.
5. Audio Line Out: connects sound amplification equipment.
6. HDMI 2 output: displays the PGM screen after layout editing.

7. HDMI 1 output: outputs the director view to configure settings with mouse connected to USB port.
8. USB 2.0 port: connects equipment such as mouse, keyboard for control.
9. Communication port for environmental control: using RS-232 or RS-485 to connect environmental control equipment.
10. LAN port: connects internet to configure settings, streaming, etc.
11. Power port: connects DC12V / 3.34A power supply.
12. Power switch: to turn on / off the power.

# Web GUI Interface

## Log In

HDR-731 settings can be configured via web browser at the computers in the same domain of LAN.

1

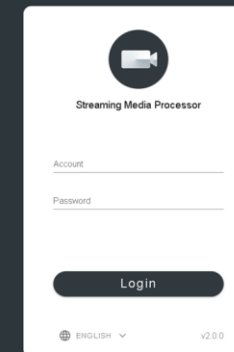
### Choosing Web Browser



HDR-731 can perform editing via currently popular web browsers, such as Chrome, Safari and Microsoft Edge. Enter the IP address of HDR-731 to enter the Web interface.

2

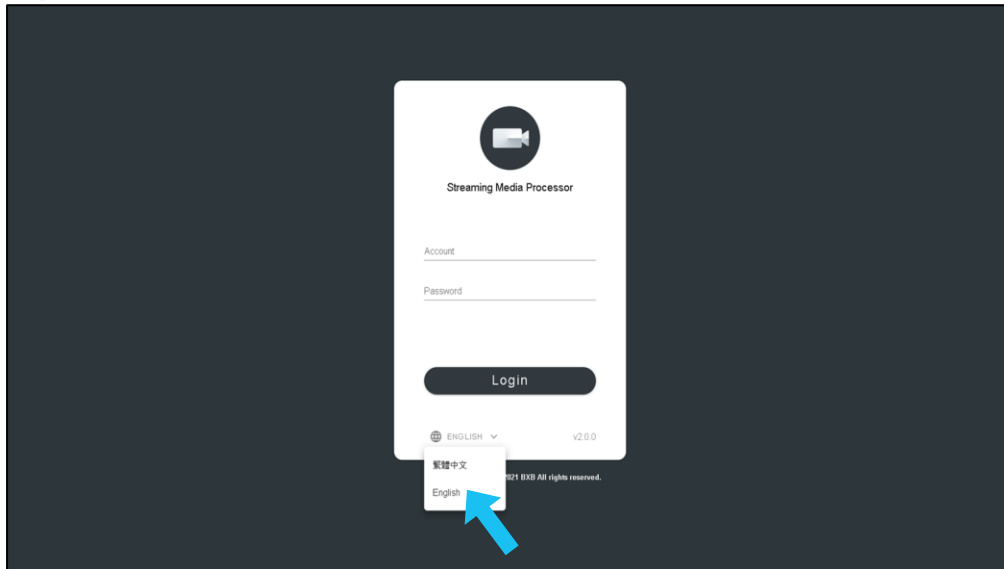
http://192.168.168.130

The screenshot shows a login page for the 'Streaming Media Processor'. It features a dark background with a white login form in the center. The form includes a camera icon, the title 'Streaming Media Processor', and two input fields labeled 'Account' and 'Password'. Below the fields is a dark 'Login' button. At the bottom of the form, there is a language selector set to 'ENGLISH' and a version number 'v2.0.0'. A copyright notice '©2021 BXB All rights reserved.' is visible at the very bottom.

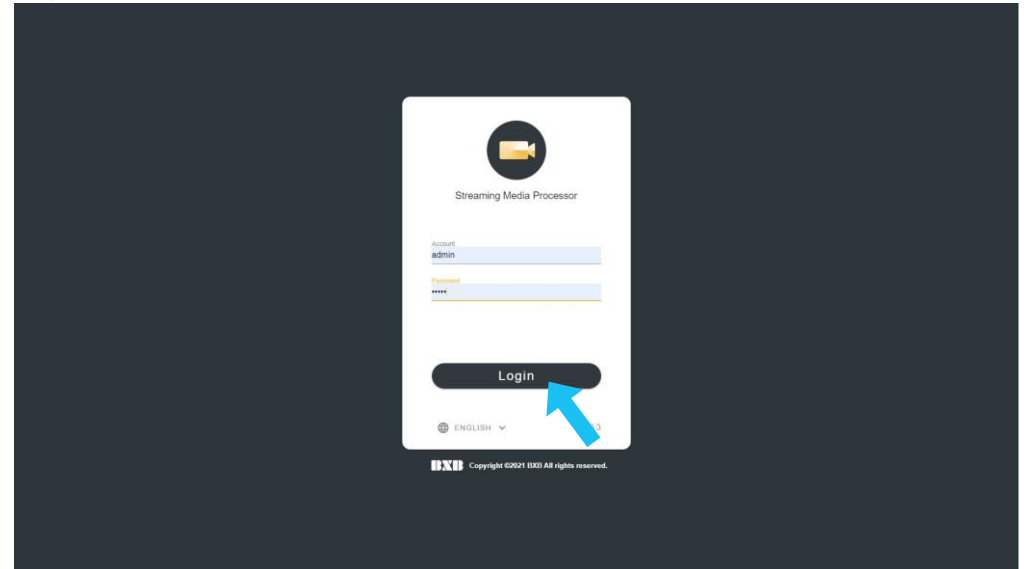
Enter the IP address of HDR-731 in URL bar (DHCP or 192.168.168.130 as default). If the IP address cannot be determined, it can be found from the screen of HDMI 1 output (please refer to [Page 121](#))



3



4



Select display language required . “Chinese”, “English” and “Thai” are supported.

After entering ID and password, click “Log in” to enter management page after validation. The default ID is “admin”; password is “00000”.

# Web GUI Interface

## Dashboard\_Setting of Video Source

Connected HDMI 1~4 signals and the camera in LAN can be selected as video sources. To add a new camera, go to “Device” (refer to [Page 86](#)).

1



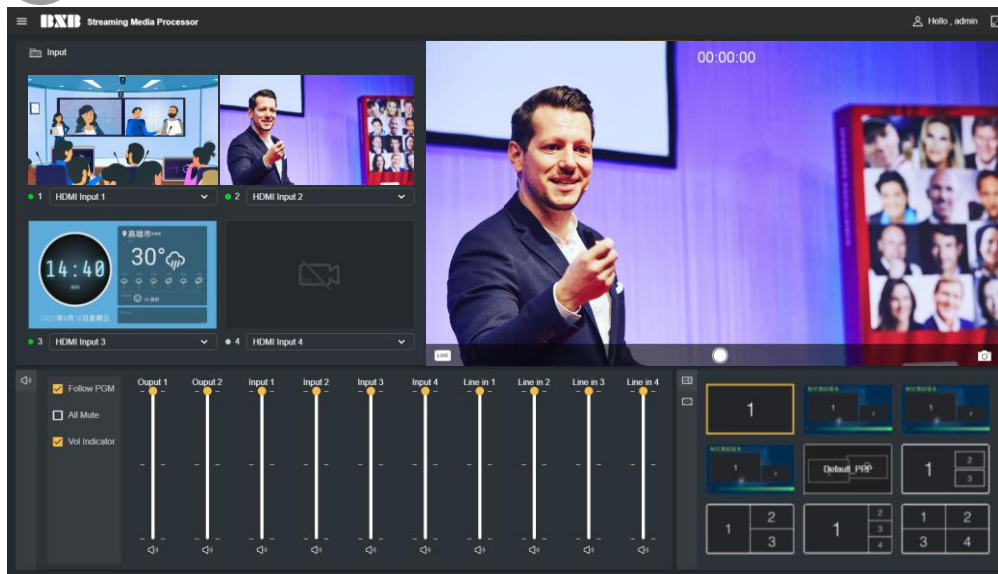
2



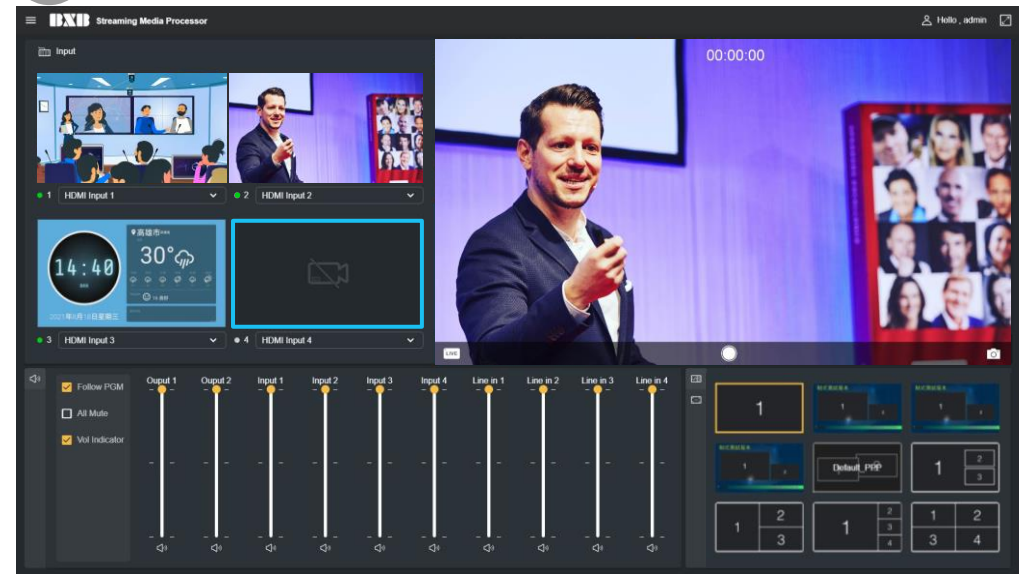
Click the video source to be changed and then open the signal source list.

Select HDMI input signal source or the streaming camera from the list as the video source.

3



4



After applying, the real-time screen will change.

If the selected signal source cannot be displayed normally, the system will remind with icon “Not Displayable” (within the blue frame). Please check the wiring of related equipment.

# Web GUI Interface

## Dashboard\_Layout Switch

The main layout can be selected to apply to the output screen. There are 9 main layouts. To add new layouts, you can go to “Template” page (details refer to [Page 25](#)).

1



Select the icon “Layout Switch” on the tool bar. There are 9 main layouts for switch selection.

2



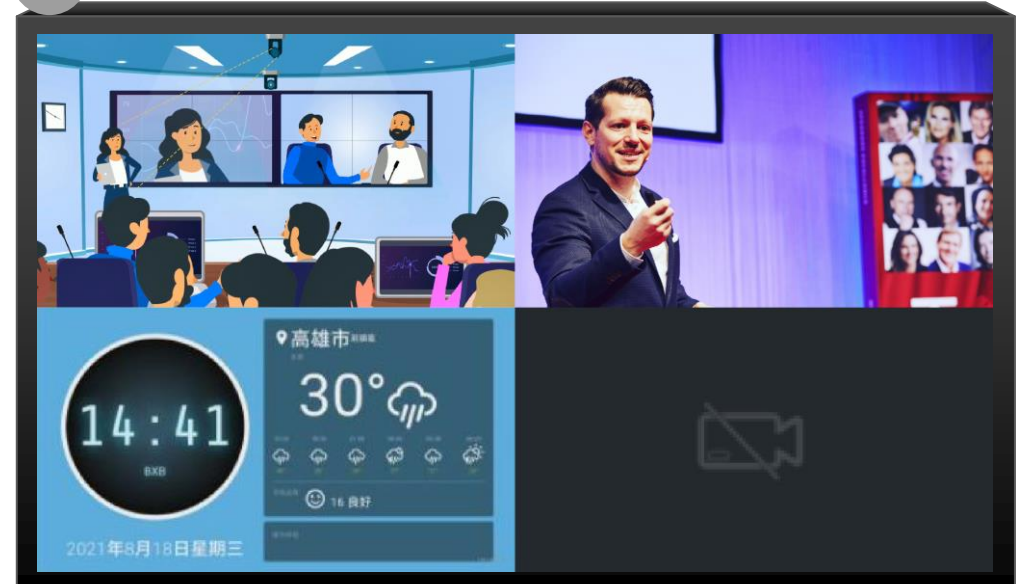
Click the layout to be applied.

3



After applying the selected layout, the real-time screen of web management page will change as well.

4



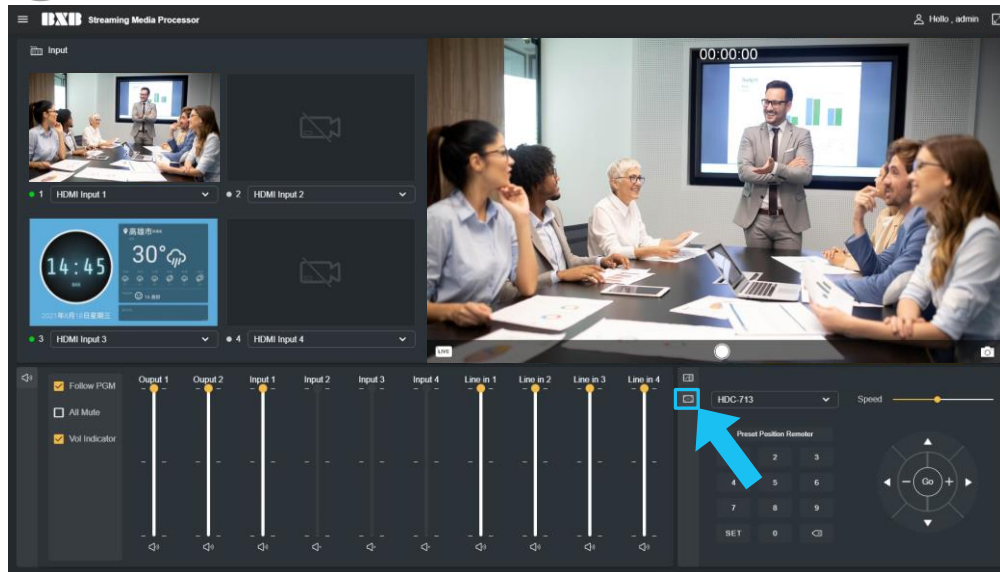
The HDMI 2 output screen, streaming and recording screen will be displayed based on the applied layout.

# Web GUI Interface

## Dashboard\_Camera Control

BXB's HDC-713, HDC-715 and HDC-716 cameras are supported. You can control camera screen and set/call the preset point screen of camera. It is suggested, when switching to camera control page, select camera signal as video source simultaneously to watch the real-time image. New added cameras must be set on “Device” page (details refer to [Page 86](#)).

1



Click “Camera Control” icon to the operation page. It is suggested to switch set the camera signal as the video source.

2

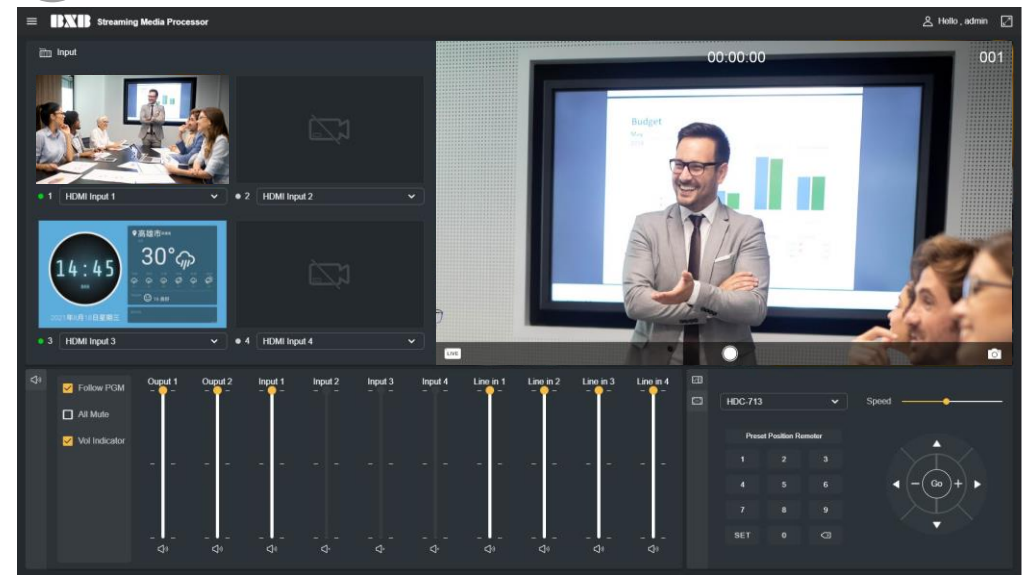


Select a camera to be operated from the camera list.

3



4



Use navigation buttons to move camera screen or operate “+” & “-” to zoom in/out.

Adjust camera to the required angle and position, enter the preset position number and then click “SET” to save the preset point. If it is necessary to call the preset point, just entering the preset position number and then click “Go” to call the previously saved preset point.

# Web GUI Interface

## Dashboard\_Audio Setting

HDR-731 has eight audio inputs and two audio outputs. You can manage the audio settings of recording, streaming and HDMI output via Dashboard page.

1



Click to adjust the volume level of the corresponding audio channel.

2



Click the icon at the bottom of audio channel to turn on/off the audio input/output of that channel.



3



Open “Follow PGM” mode, the audio channel will turn on/off based on the corresponding layout selection. By switching layout, HDR-731 will automatically adjust the ON / OFF of the audio channel.

4



Activate “All Mute” mode, the eight input audio channels will be compulsorily turned off and the eight input audio channels cannot be turned on and their volume cannot be adjusted.

5



Activate “Vol Indicator” mode, the audio input / output status will be displayed in real time on the volume level scale.

# Web GUI Interface

## Dashboard\_Streaming

HDR-731 supports live-streaming platform, HLS, RTMP and RTSP stream output. Before starting streaming, it is necessary to configure settings on “Streaming” page ([Page 97](#)). After starting streaming, the system will perform live-streaming on the platform based on your setting.

1



Click the icon “LIVE”, system will activate streaming function based on the settings on page “Streaming”.

2



System will indicate that the streaming is successful. At this moment, you can check the streaming platform to see if streaming is successful.

3



4



When streaming is in progress, icon “LIVE” will be displayed at the left upper corner of the real-time window on dashboard.

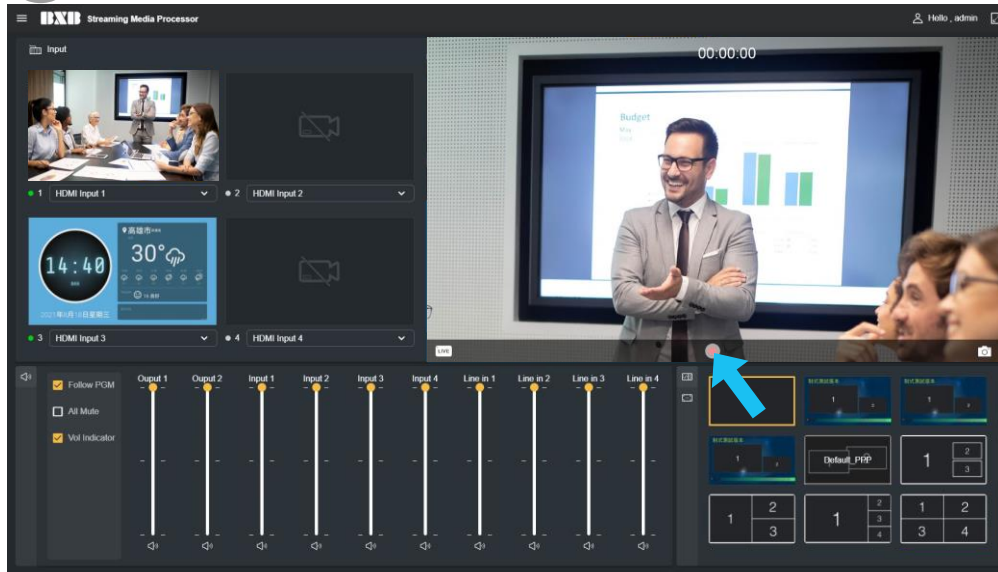
After streaming is over, click icon “LIVE” again to disconnect the streaming platform.

# Web GUI Interface

## Dashboard\_Recording

The default recording mode is “PGM”. Streaming can be performed simultaneously during recording. The recording mode and resolution can be set on page “Recording” (refer to [Page 93](#)). If the recording mode is set to “PGM + 4 Inputs”, the streaming would not be performed simultaneously during recording.

1



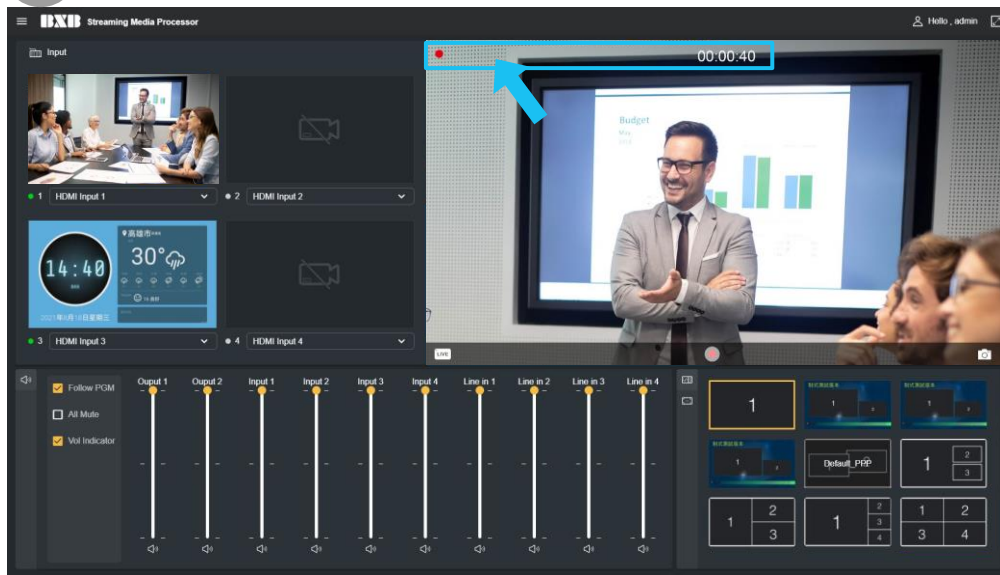
Click “Record” icon to start recording PGM screen.

2

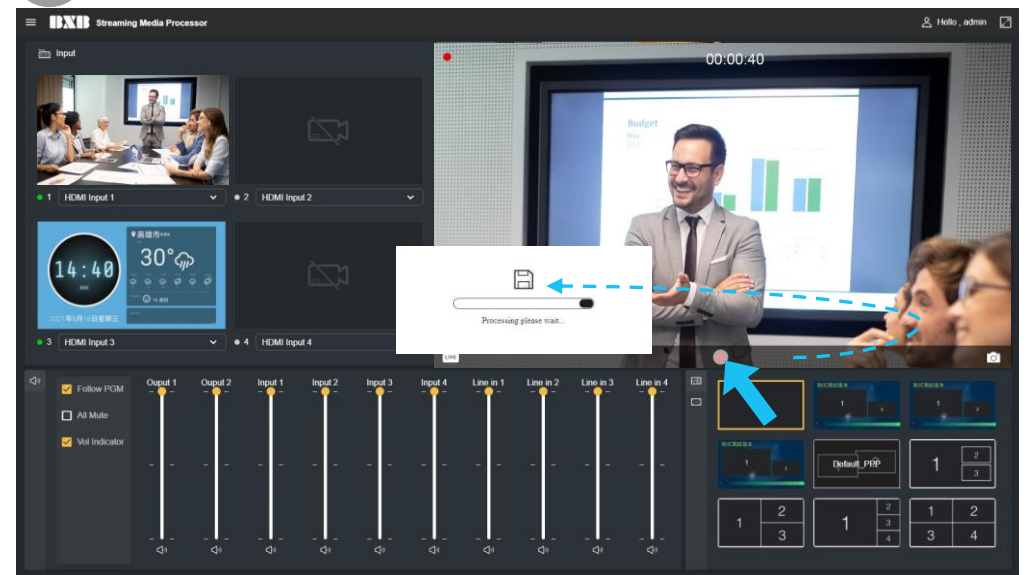


When the recording is activated successfully, there will be a message to indicate “START RECORDING” at the right lower corner.

3



4



The red round icon at the left upper corner on real-time screen flickers to indicate that recording is in progress. Recording timer is counting time simultaneously.

Click "Record" icon again to exit recording. At the same time, the system will save the recorded files in the internal storage space of HDR-731. To browse or download them, please go to "Media Center".

※ As saving file, please do not unplug the USB 3.0 device or the file saving will be failed.

# Web GUI Interface

## Dashboard\_Snapshot

HDR-731 can perform “Snapshot” during recording and streaming to create image files from present PGM output screen and save them in the internal storage space of HDR-731. To browse and download them, please go to “Snapshot” under “Media Center”.

1



2



Click the icon “Snapshot” to capture the PGM output screen. The image file will be instantly saved.

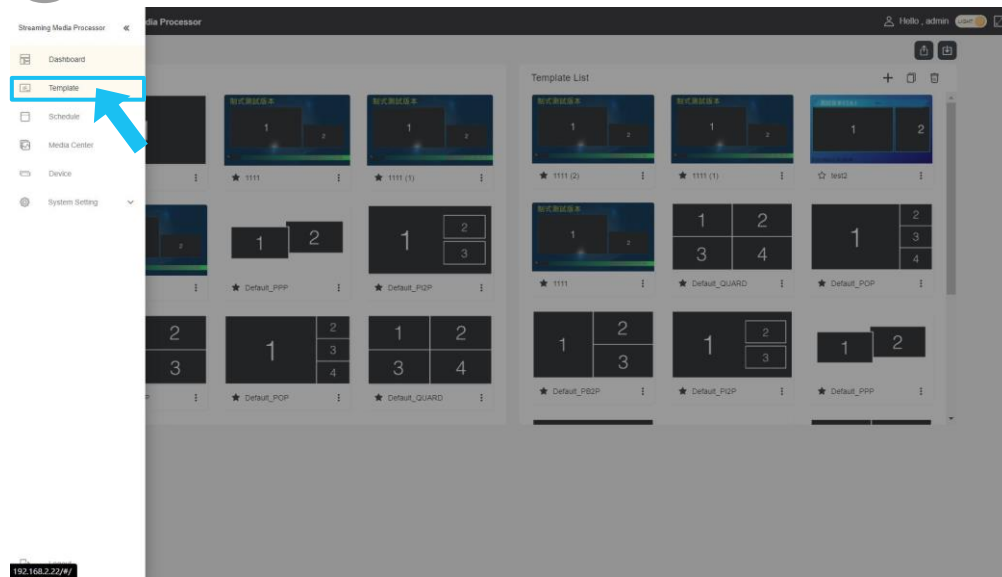
After completing snapshot, there will be a message of “SNAPSHOT SUCCESSFULLY” at the right lower corner for indication.

# Web GUI Interface

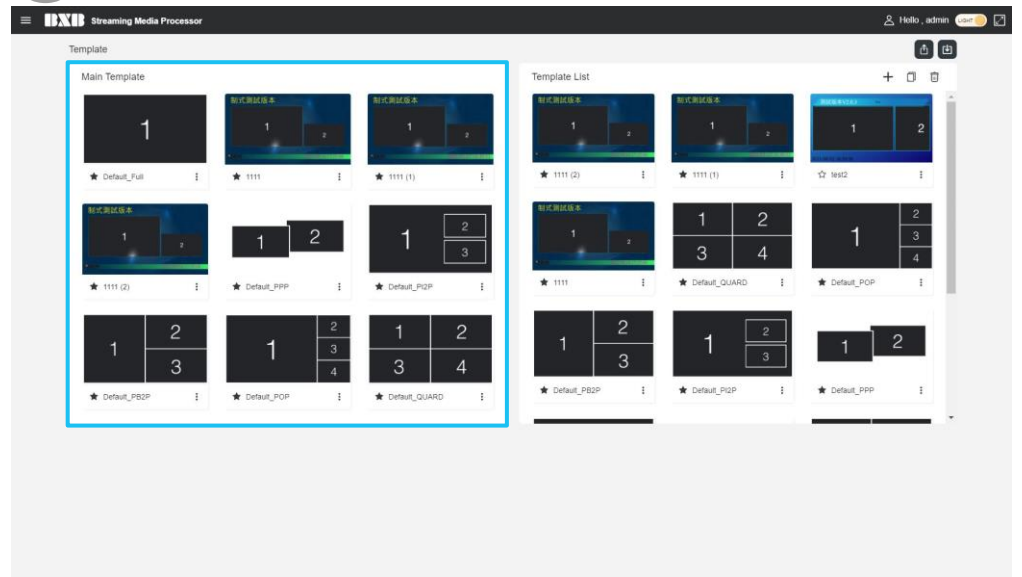
## Template\_Main Template

There are nine scenes built in “Template”. “Main Template” will switch scenes corresponding to layout switch list on dashboard or external USB/keyboard.

1



2

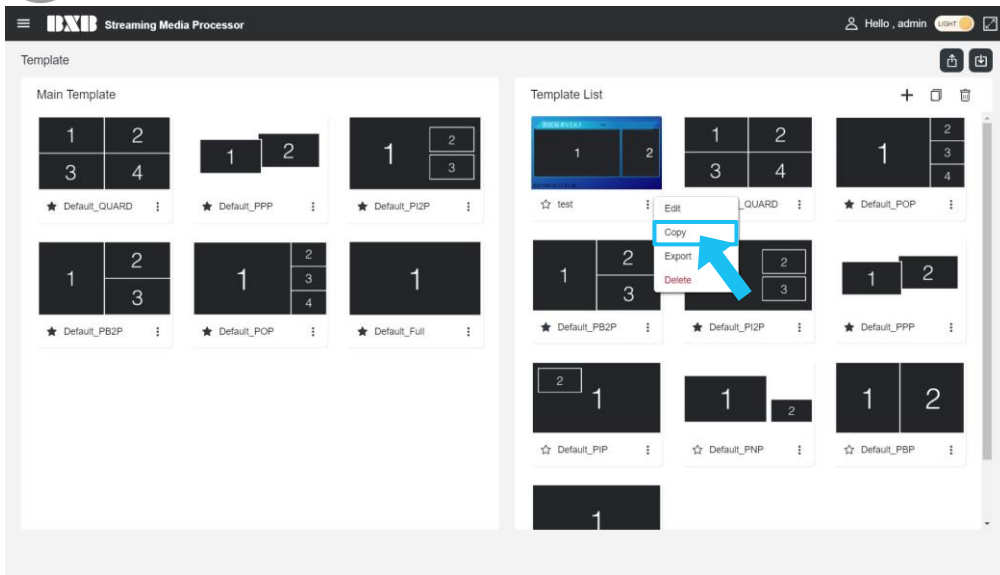


Select “Template” to enter the layout editing page.

“Main Template”: nine layouts are reserved for quick switch selection.

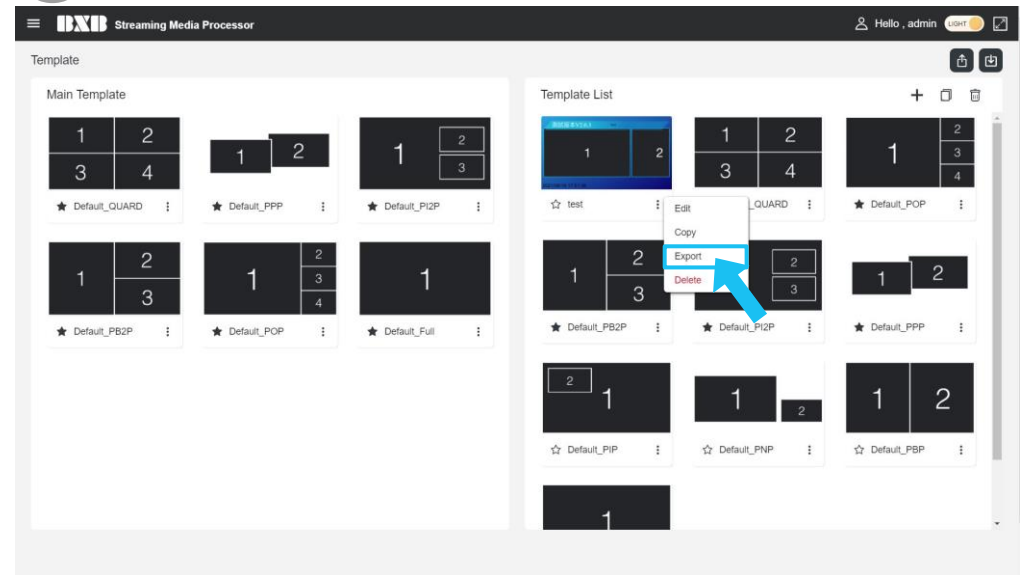


3



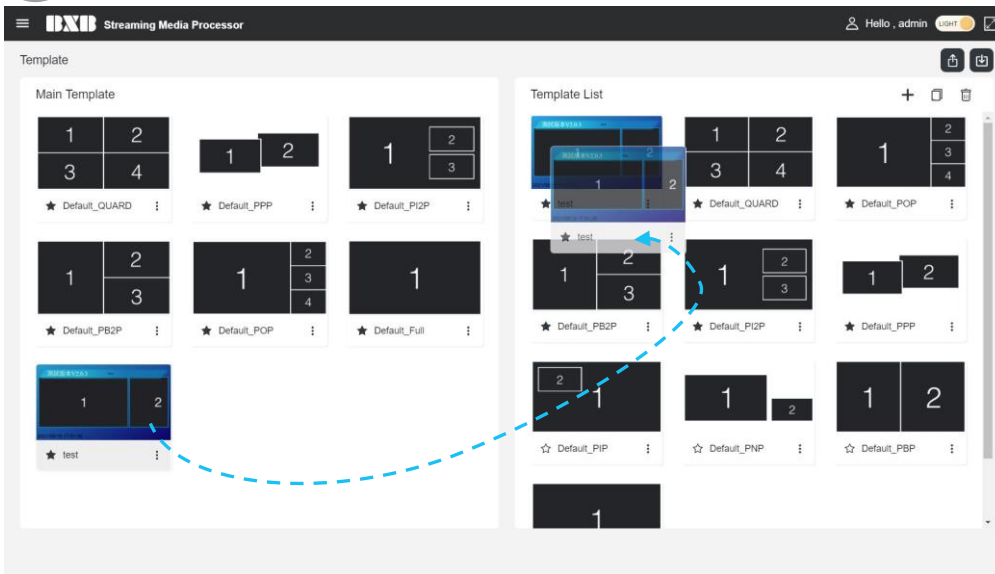
Select a layout and click “Copy” to copy that layout to the list as the new layout for editing.

4



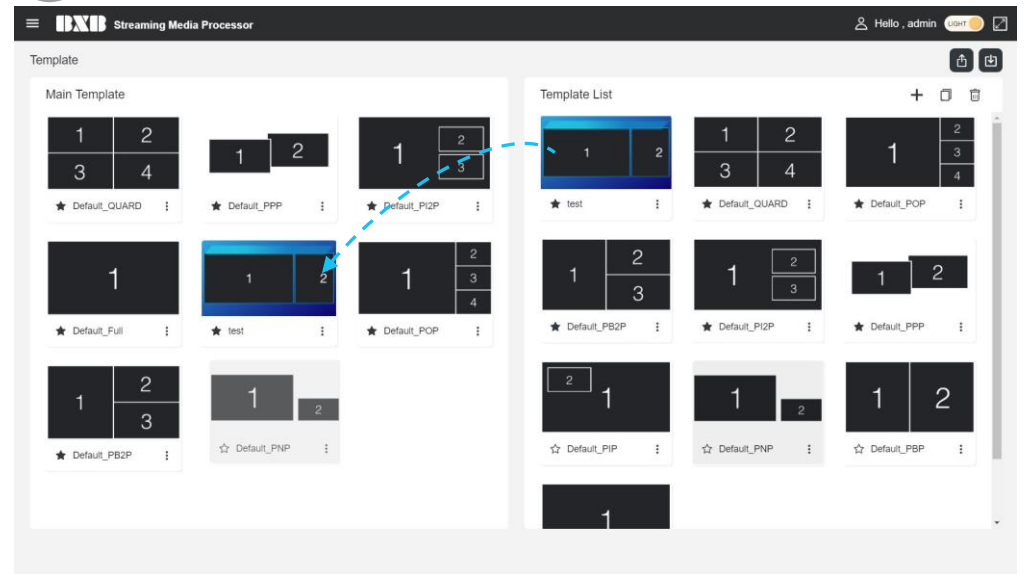
Select a layout and click “Export” to export that layout to a computer for backup.

5



Drag out a layout from “Main Template” to remove that layout from the quick switch list.

6



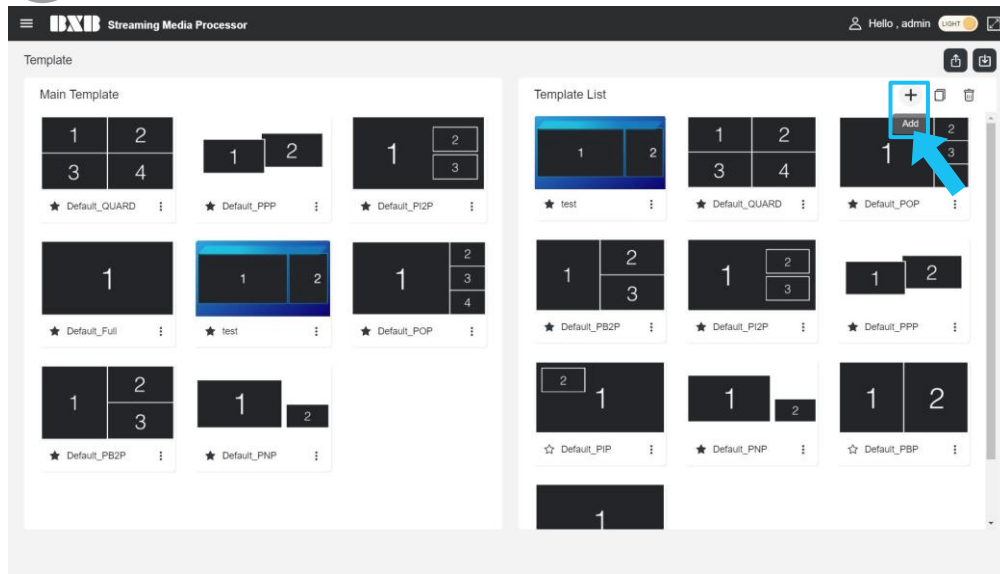
Drag a layout from “Template List” to “Main Template” to replace or add layout.

# Web GUI Interface

## Template\_Add Template

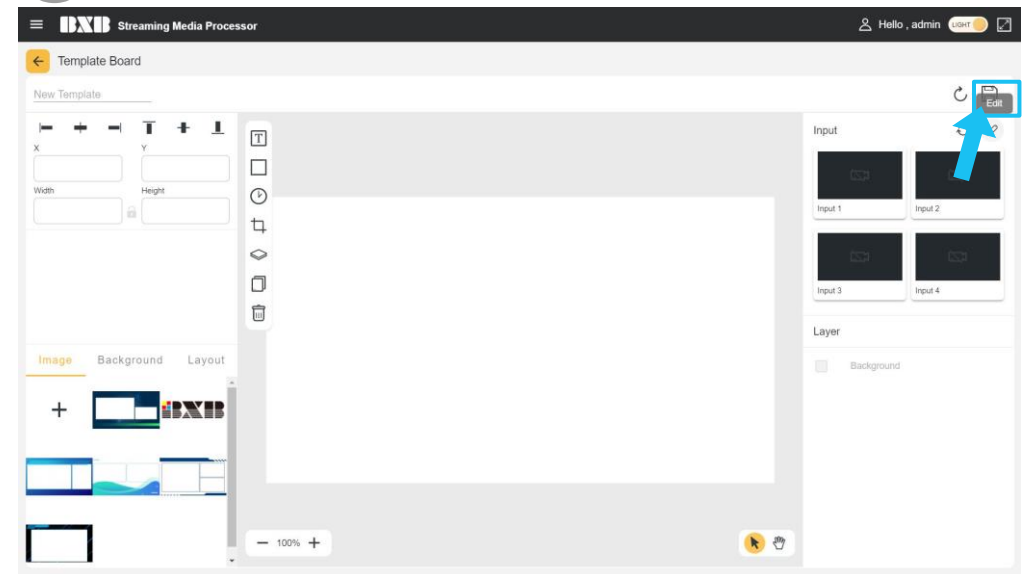
There are nine layouts built in "Template". To customize the layout, you can duplicate the existing layout or add a blank layout for modification. Layouts can be exported as configuration file for backup.

1



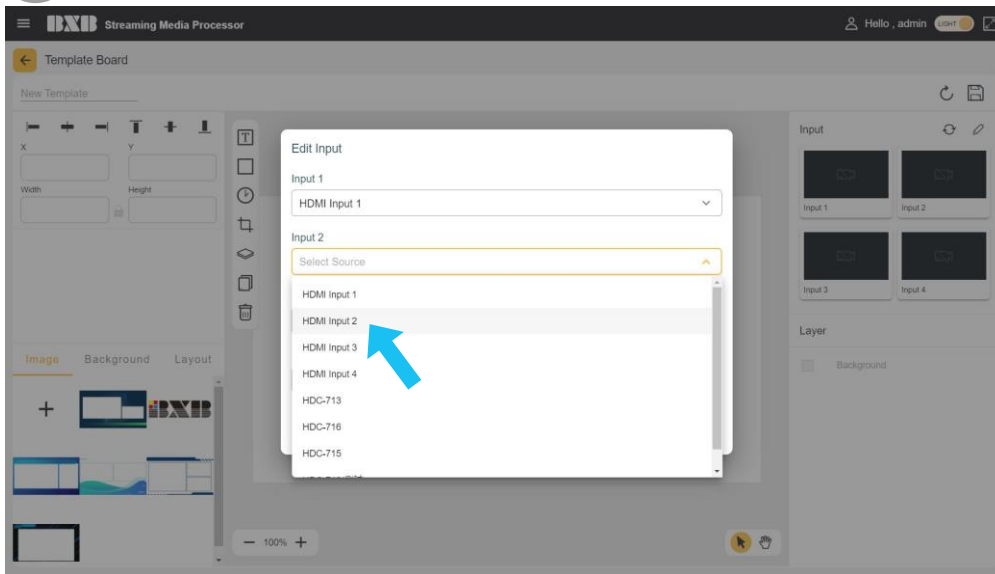
Click "+ Add" on "Template List" to add a blank layout for editing.

2



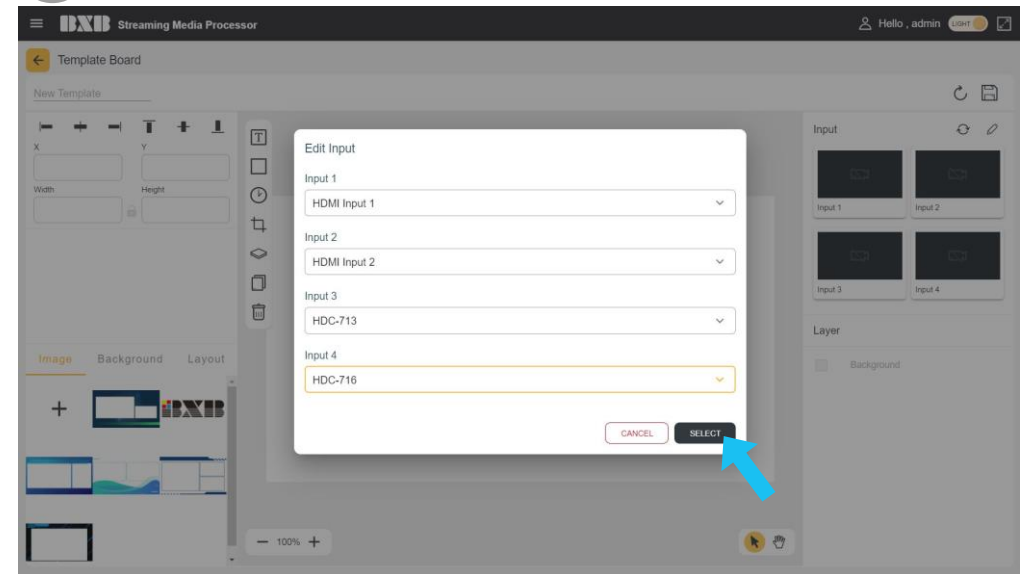
Click "EDIT" icon on the video input list to open the setting page of the signal source.

3



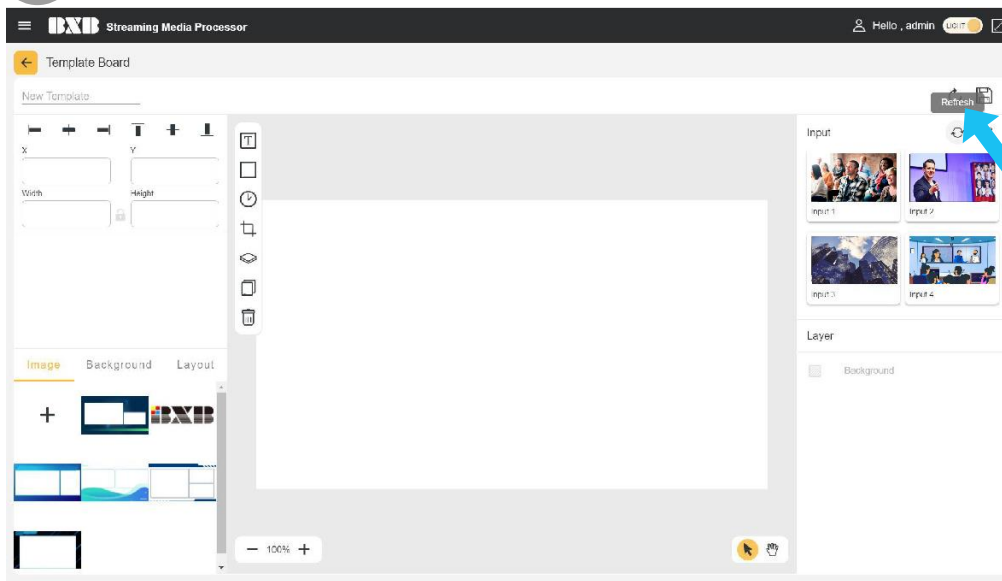
Select a HDMI input source or select the camera added in the domain to bind signal source for display accordingly.

4



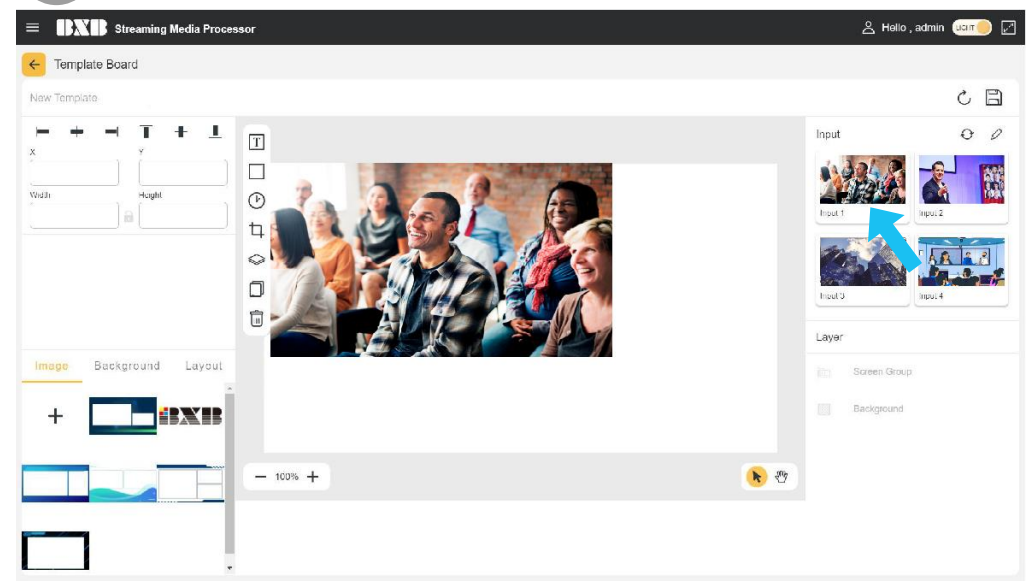
Click "SELECT" to complete the setting of video input source.

5



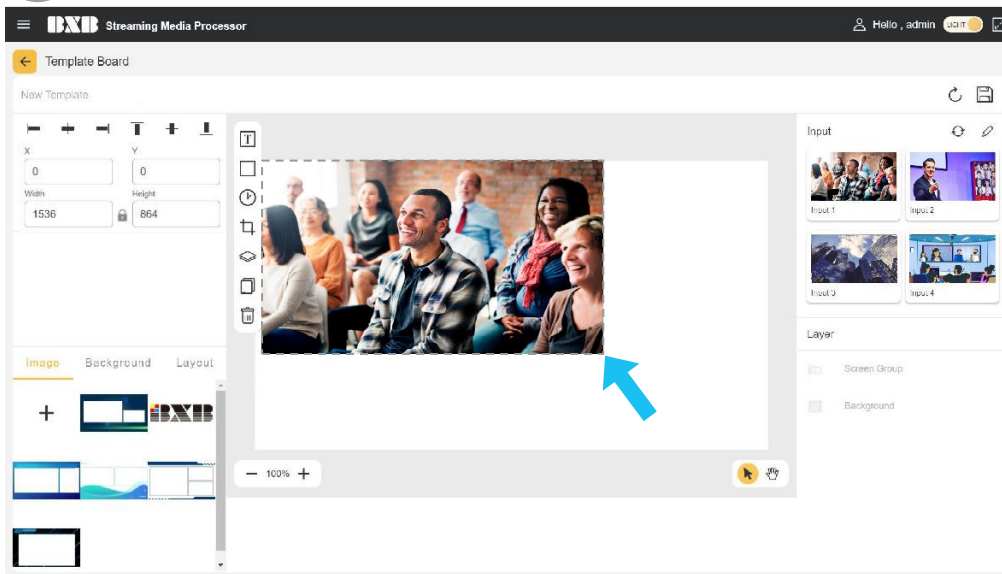
Click “Refresh” icon to refresh screens of each input channel.

6



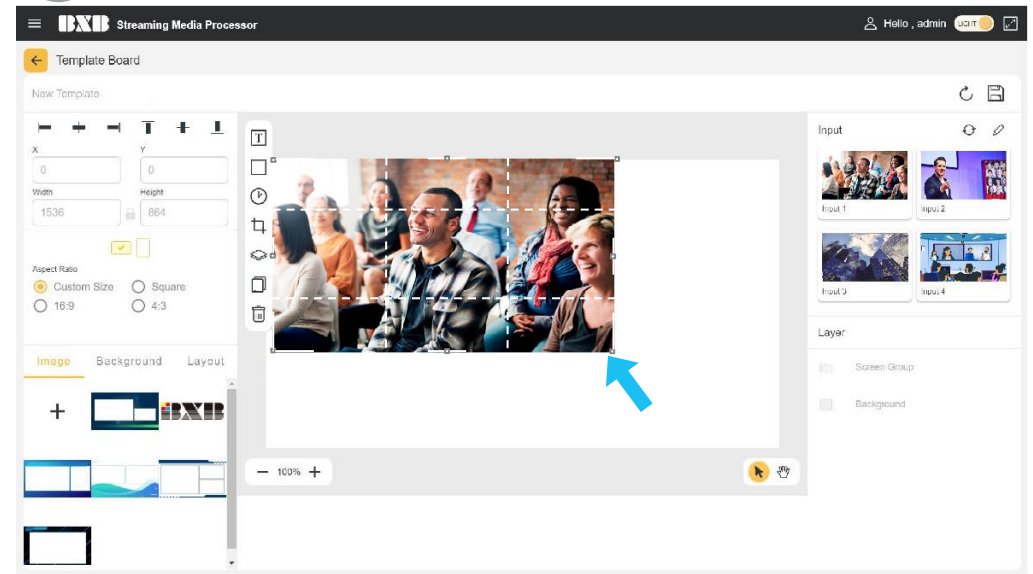
Click the input screen in the list to add that screen to the layout for editing.

7



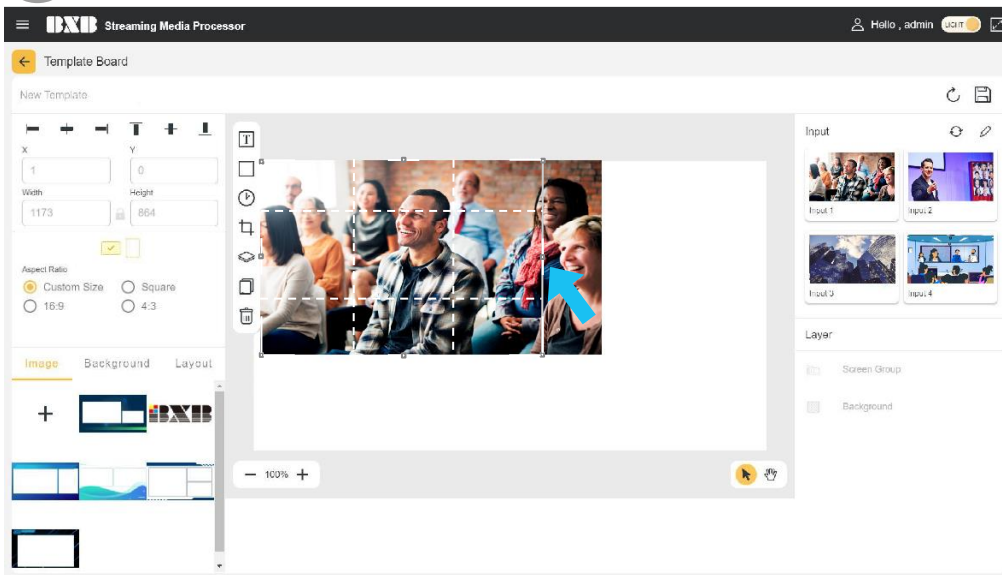
Drag the frame of screen to zoom in / out the displayed screen.

8



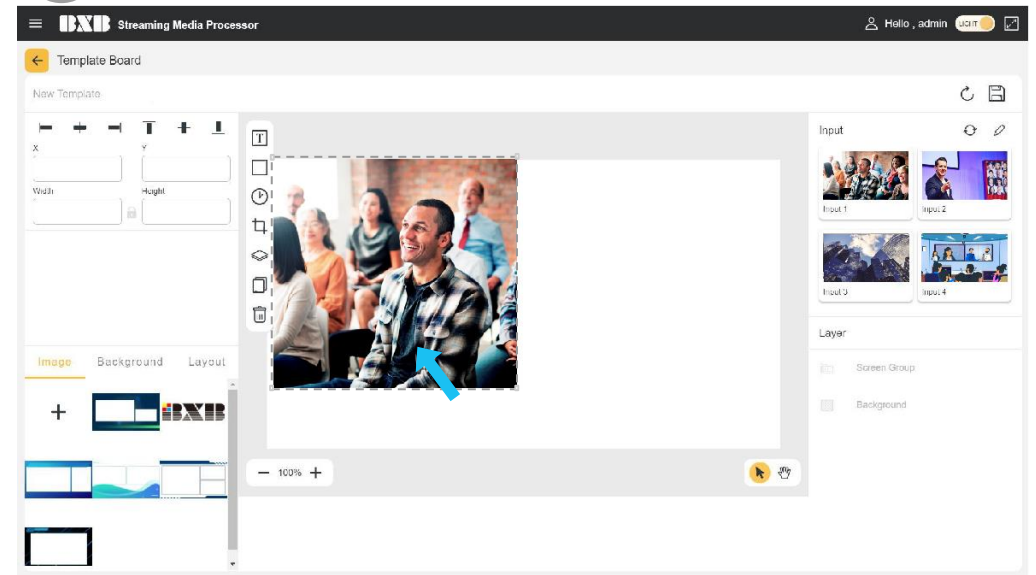
Double click on the screen to open "Crop" function and drag the frame to adjust the display range.

9



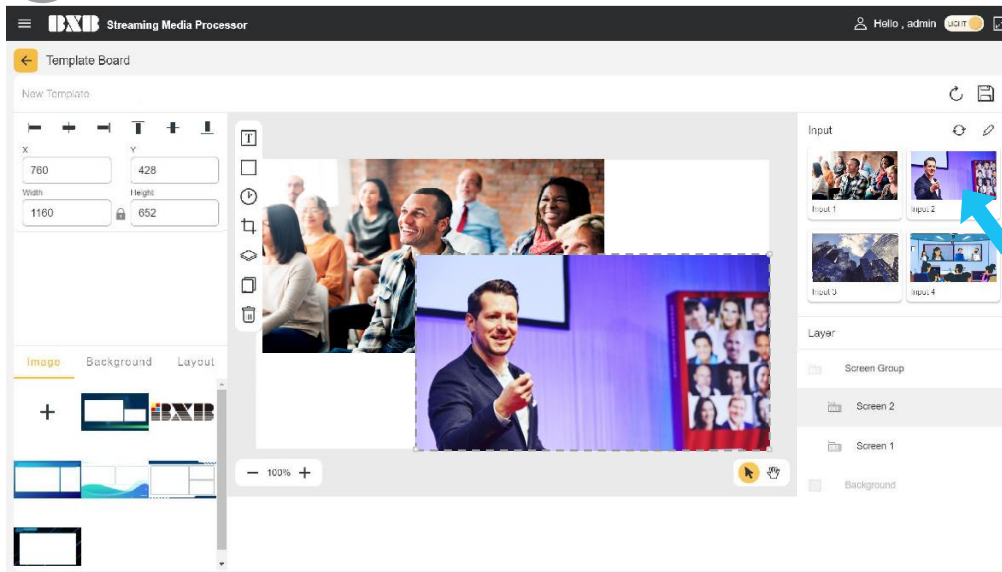
Click the frame to adjust screen cropping.

10



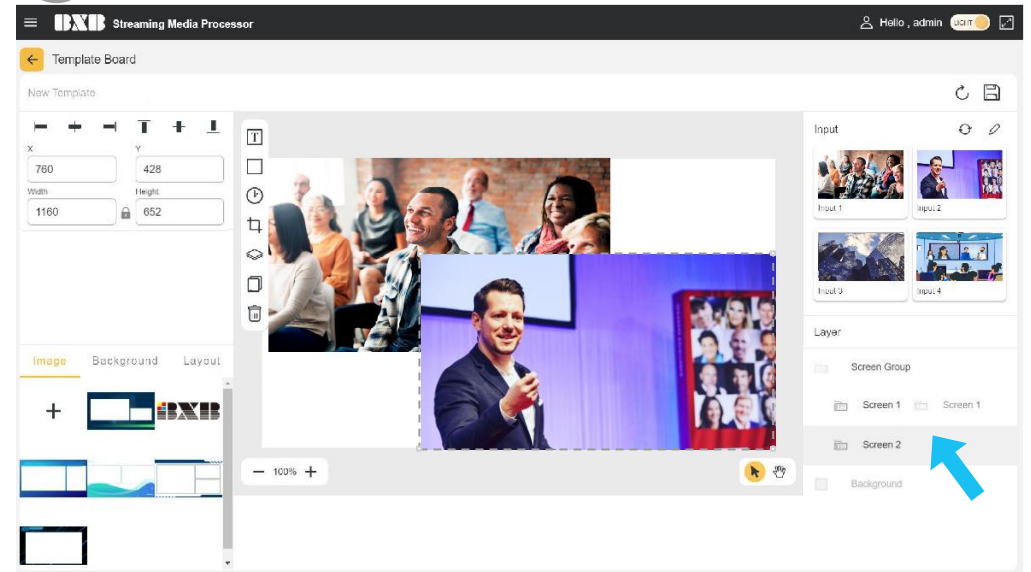
Double click on screen to exit cropping.

11



Click the image of other input sources to add the screen to the layout (screen of the same input source cannot be added repeatedly).

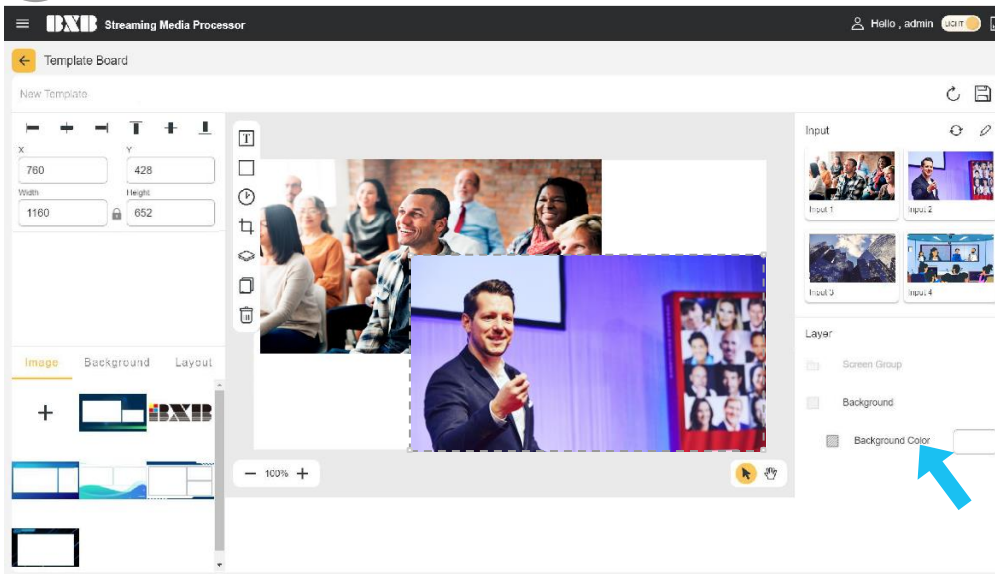
12



"Screen Group" of Layer: to edit the overlapped sequence of each input screen.

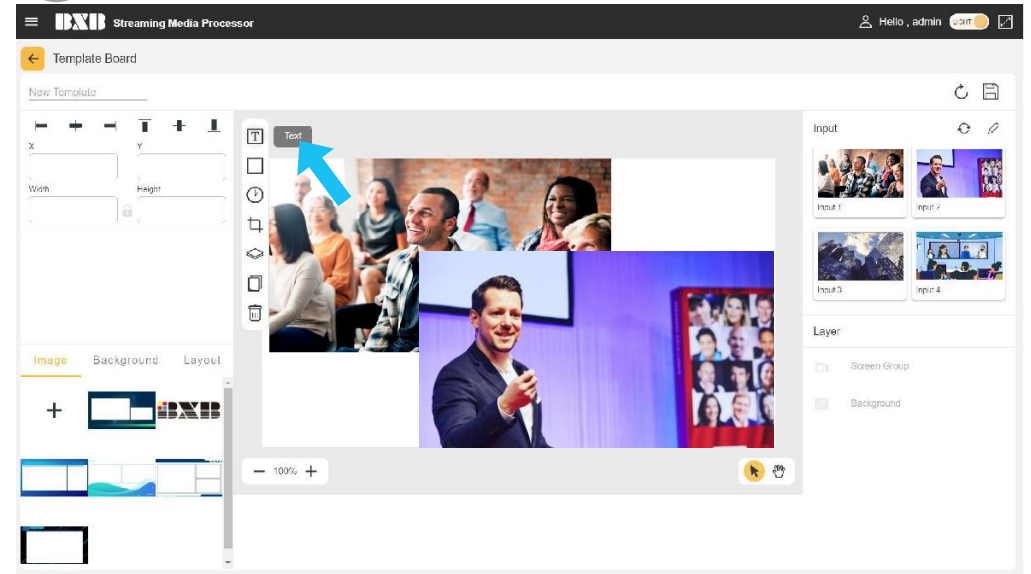


13



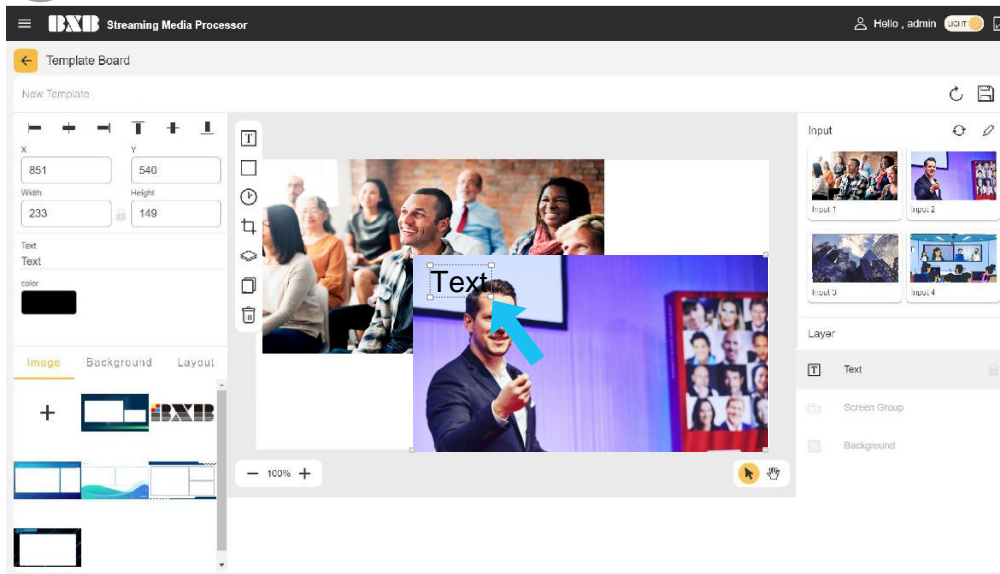
Click "Background" to set the background color.

14



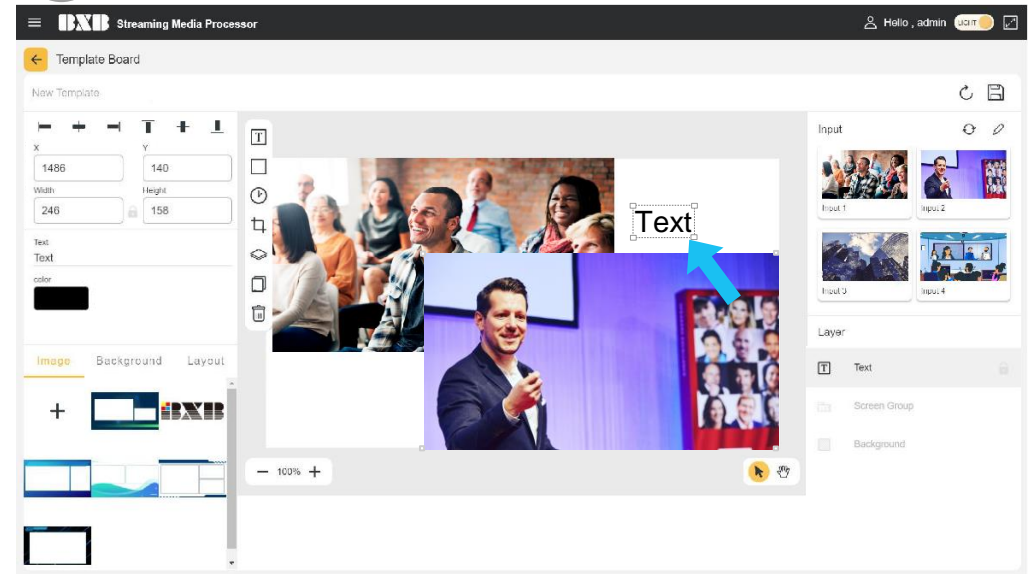
Click "Text" to add text blocks on the layout.

15



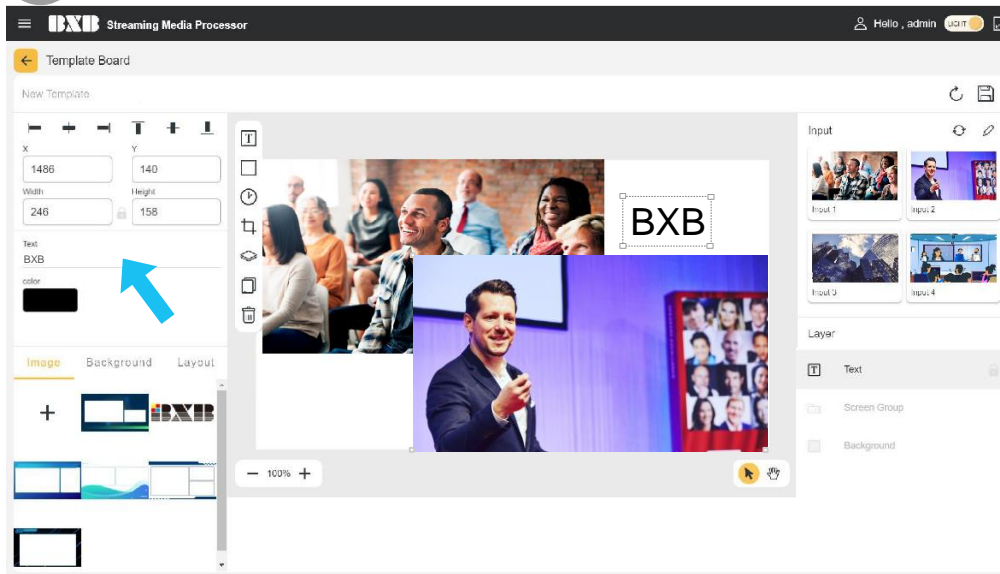
Click the frame of the text block and drag it to zoom in / out the text display.

16



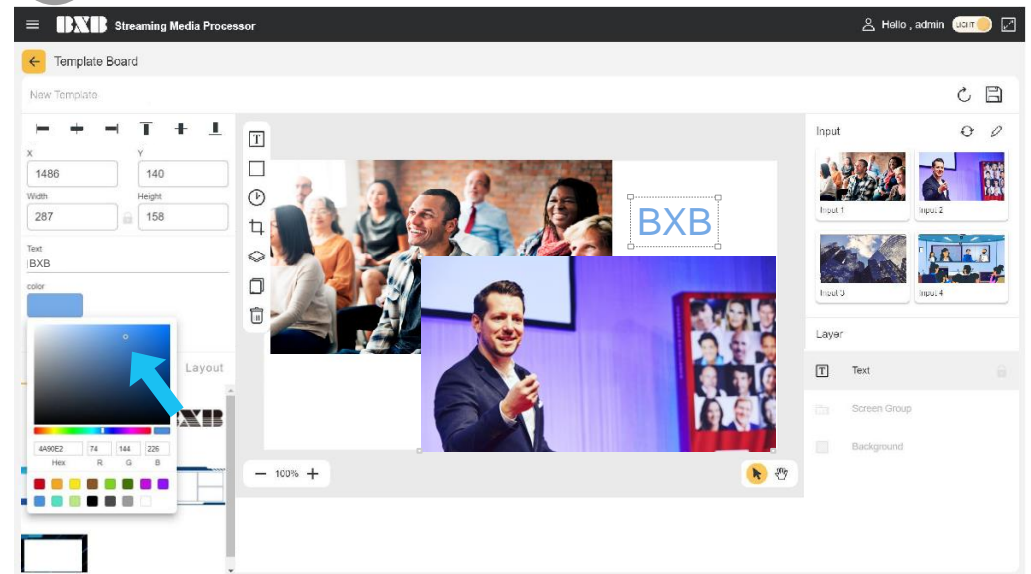
Drag the text block to the required position on layout.

17



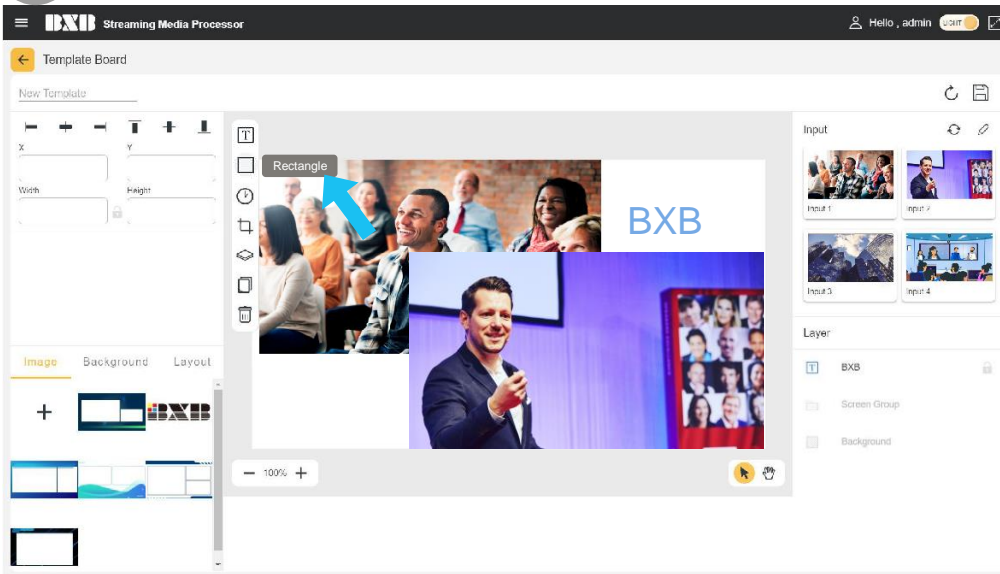
Enter the text to be displayed.

18



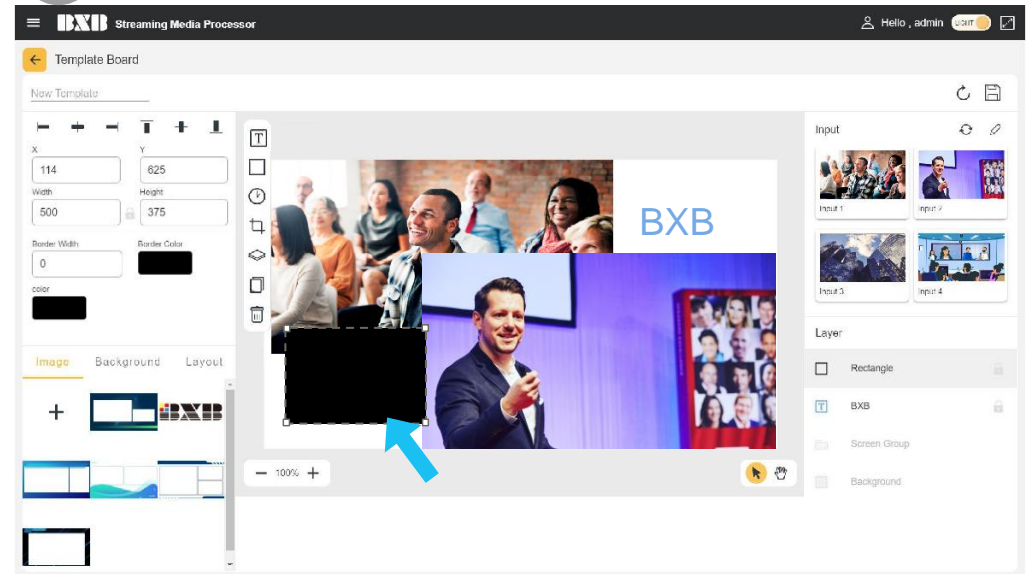
Select the text color.

19



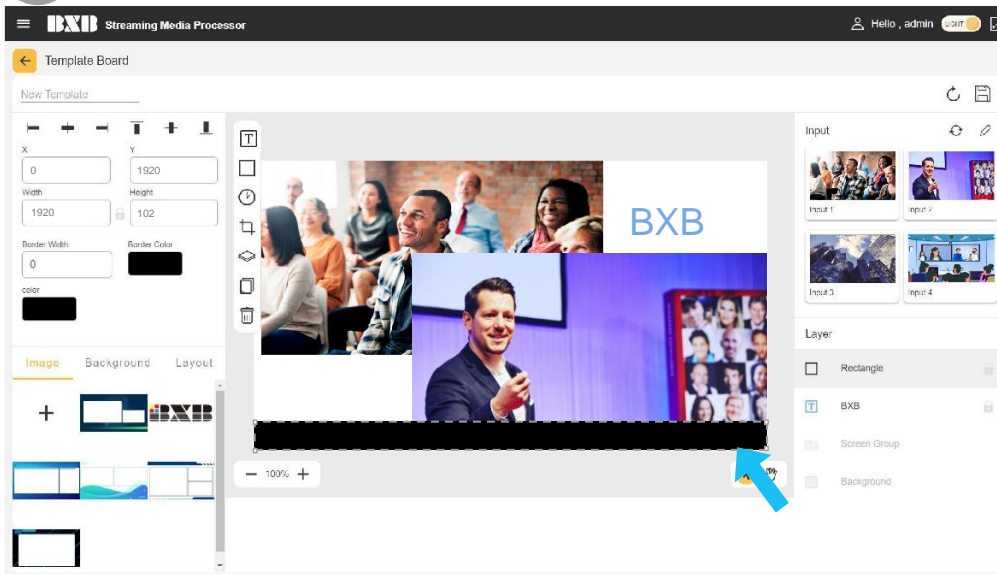
Add a rectangular block on the layout for editing.

20



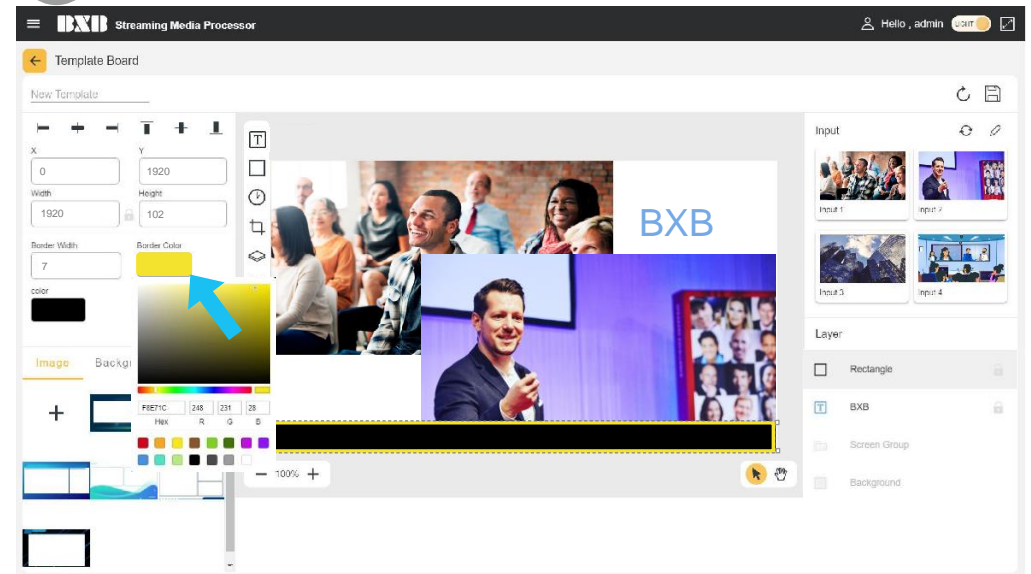
Drag the block to required position.

21



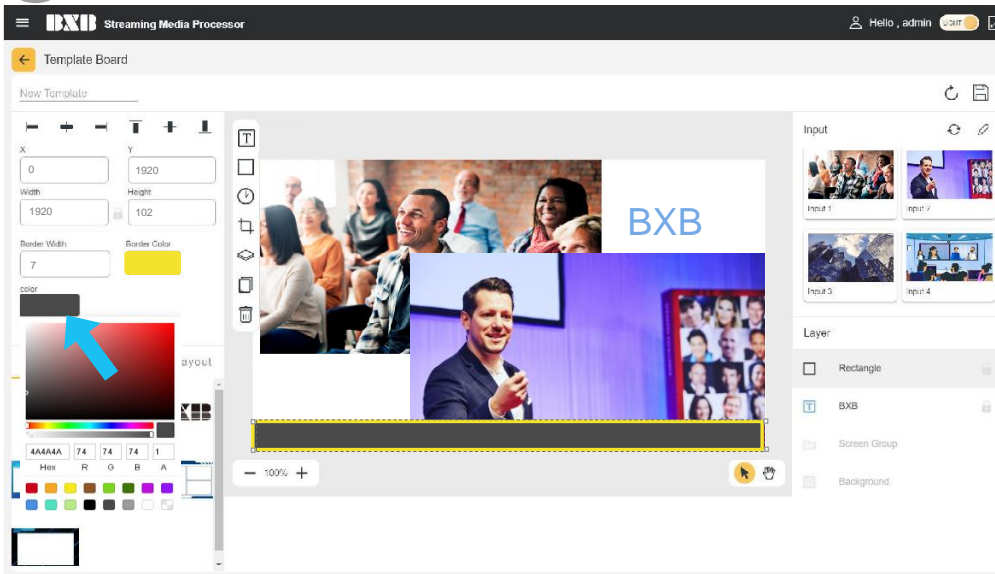
Click the frame of the block and drag it to zoom in / out.

22



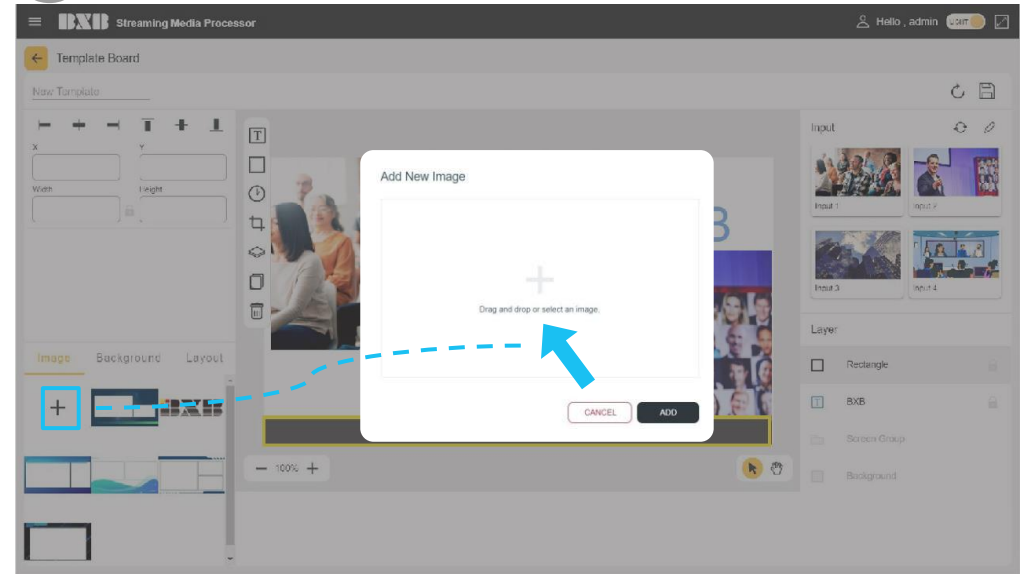
Edit the border color and border width of the block.

23



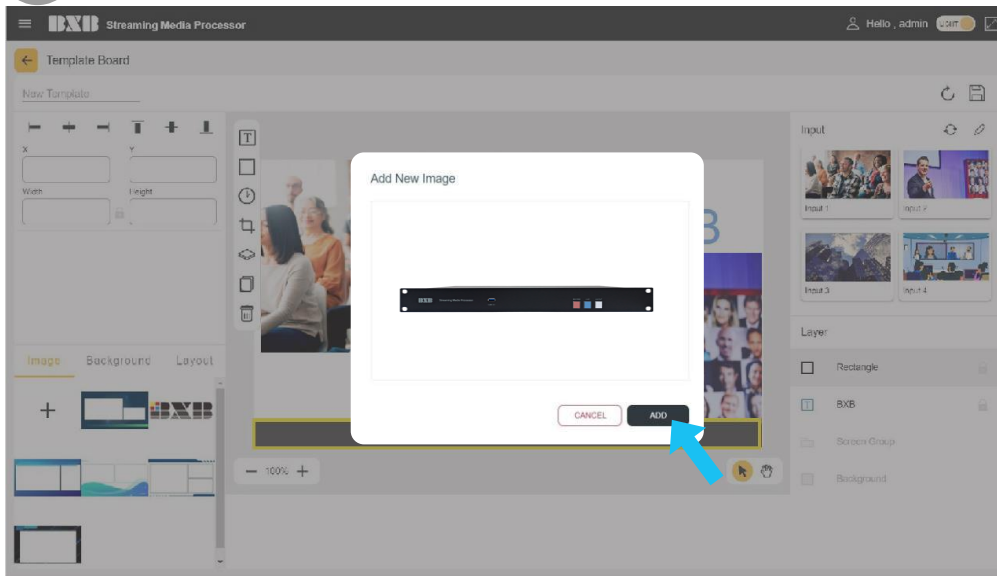
Select the block color.

24



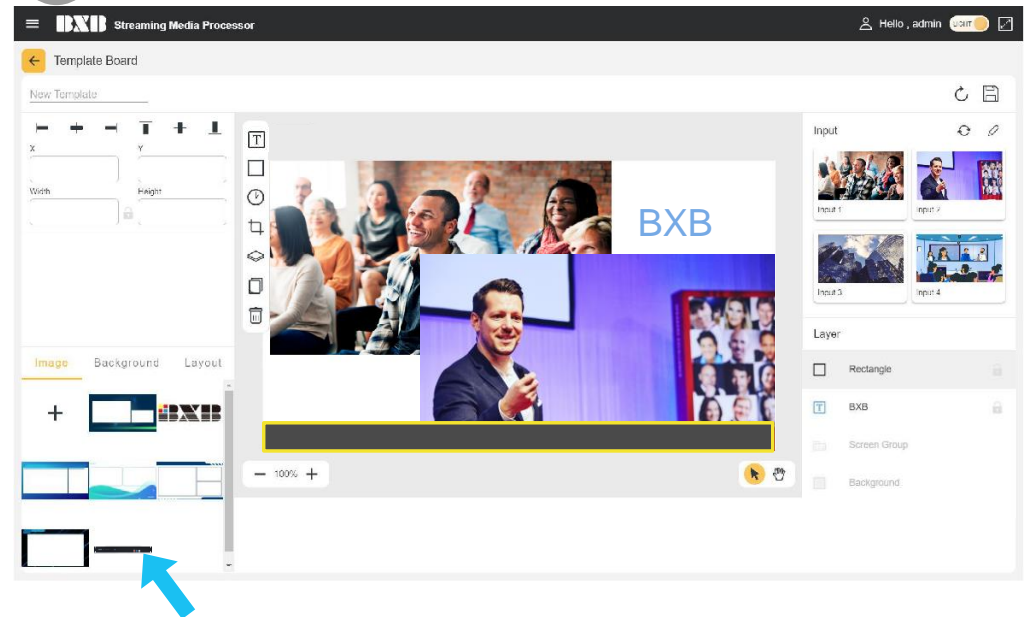
Click icon “+” under “Image” to add a new image.

25



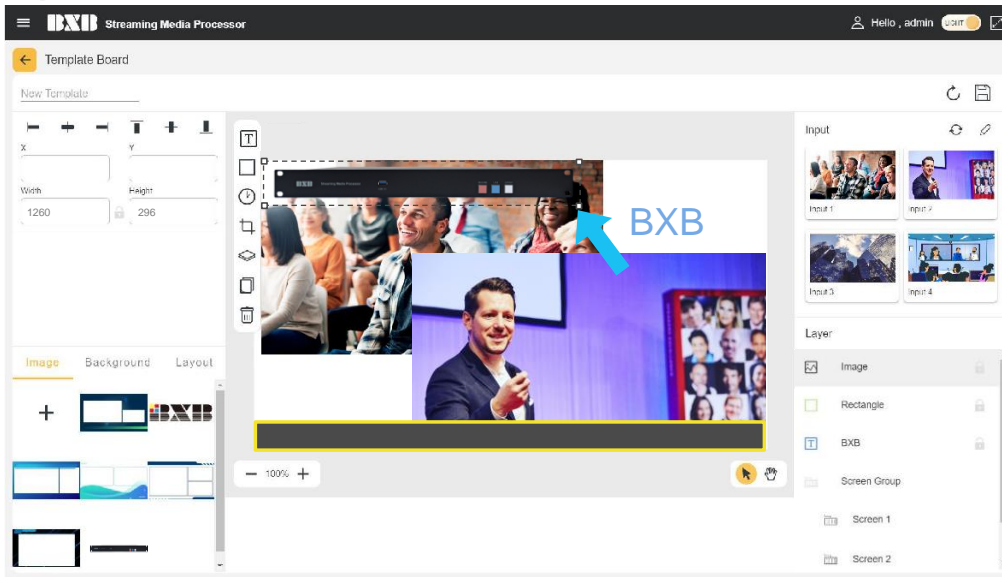
After selecting the local image, click “ADD” to upload it to HDR-731.

26

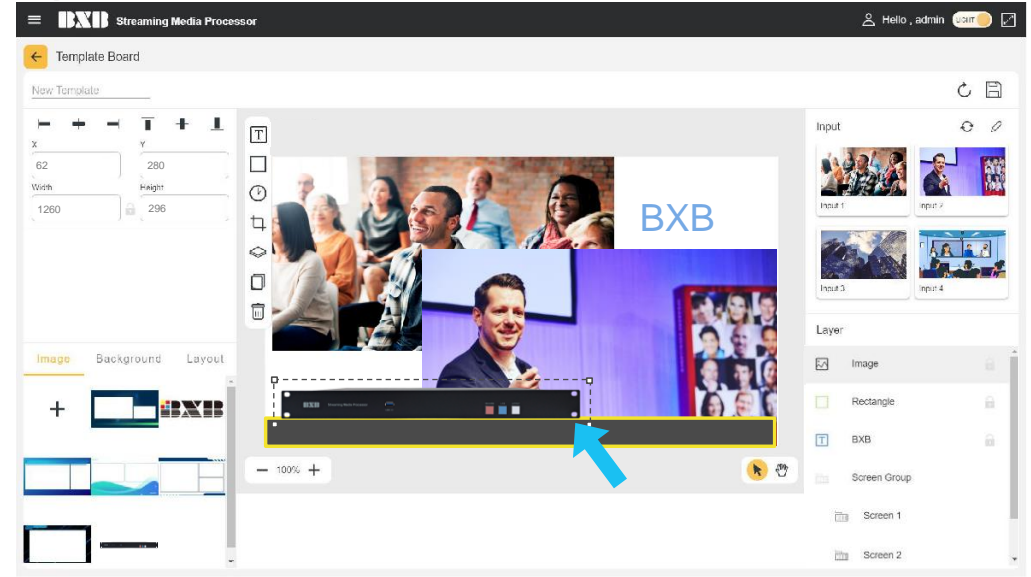


Click the image to add it on the layout for editing.

27



28

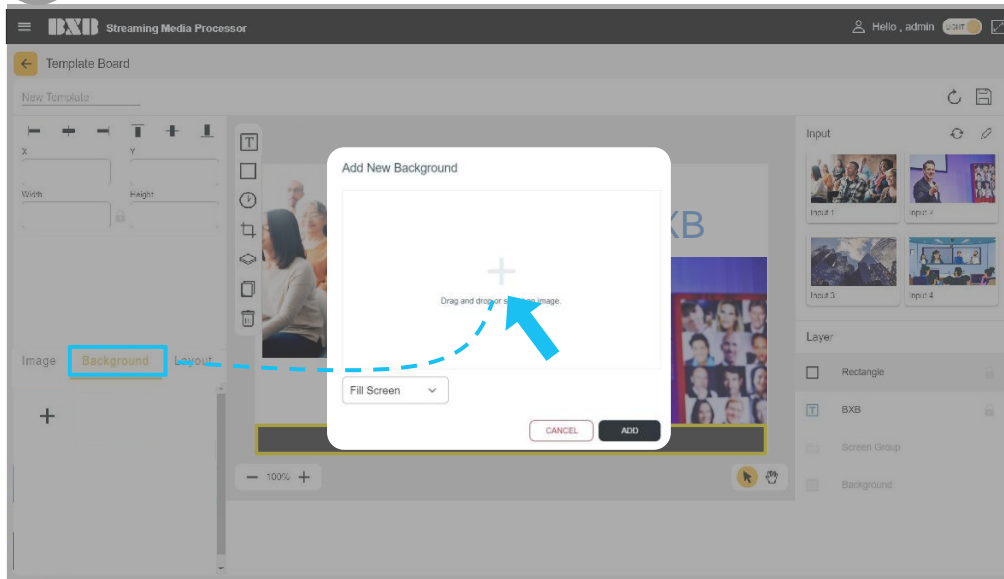


Click the frame of the image and drag it to zoom in / out.

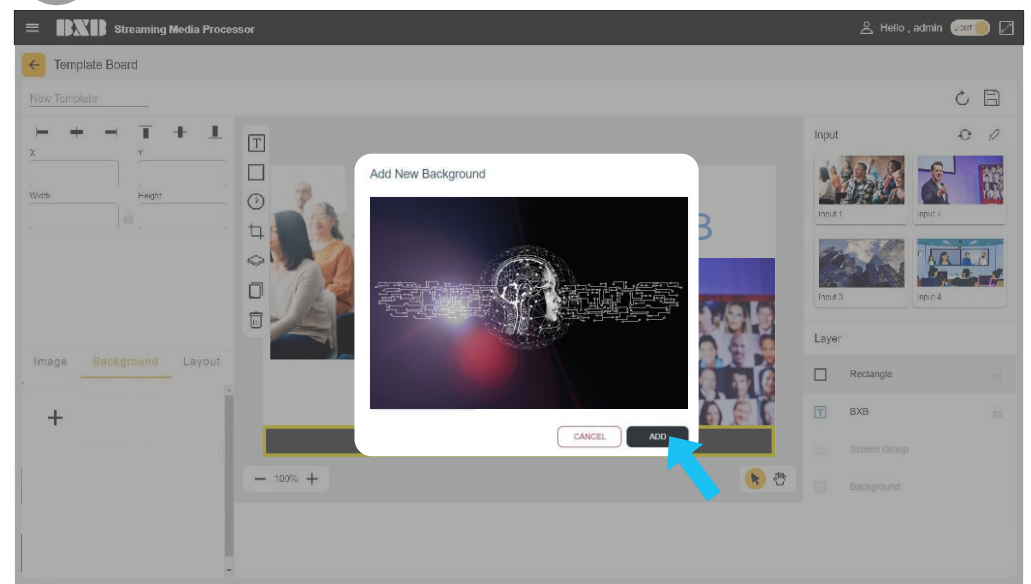
Drag the image to move its position on layout.



29



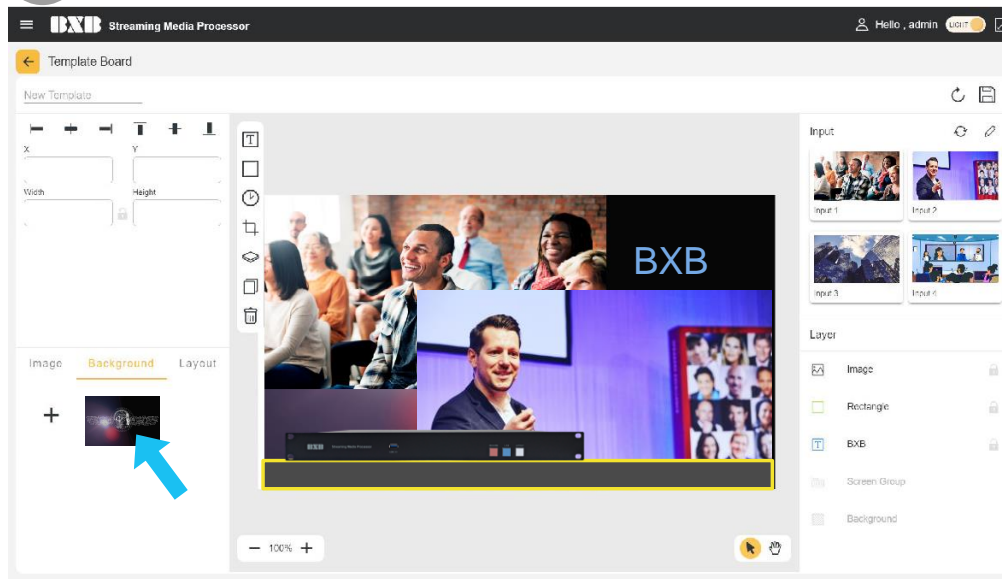
30



Select "Background" and then click icon "+" to add a background page.

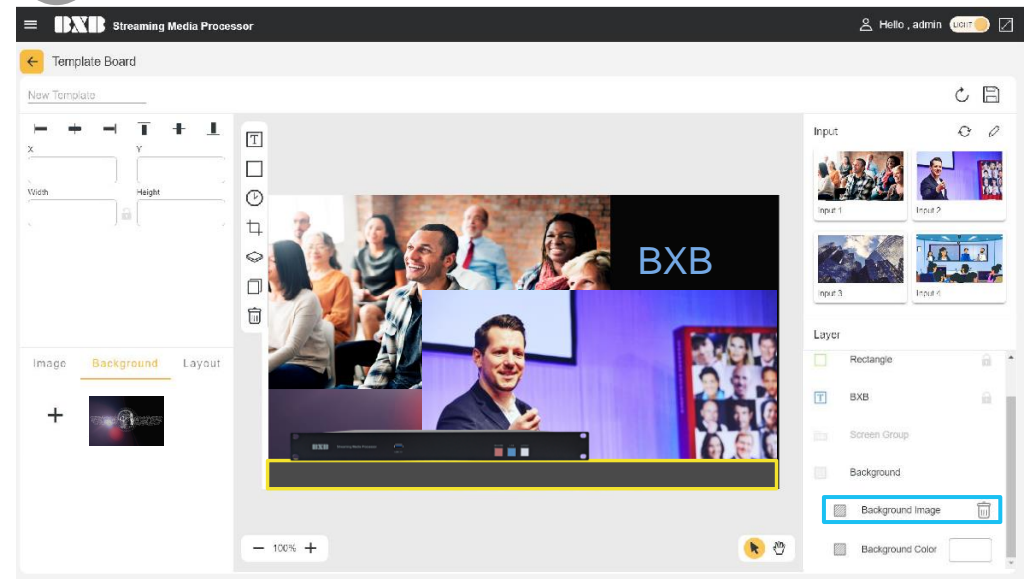
Select the background file to be added and click "ADD" to upload it to HDR-731.

31



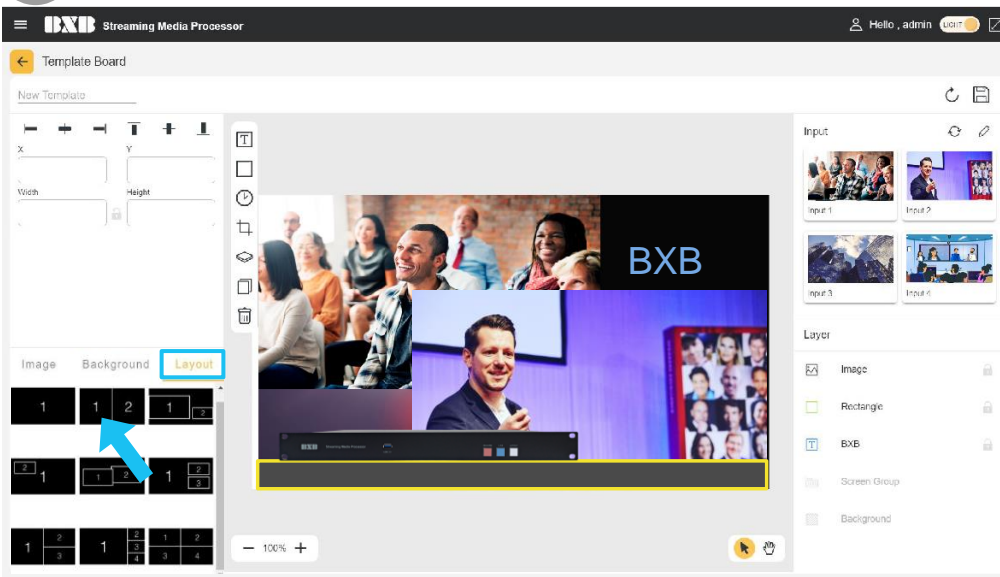
Click the background image to apply it to layout.

32



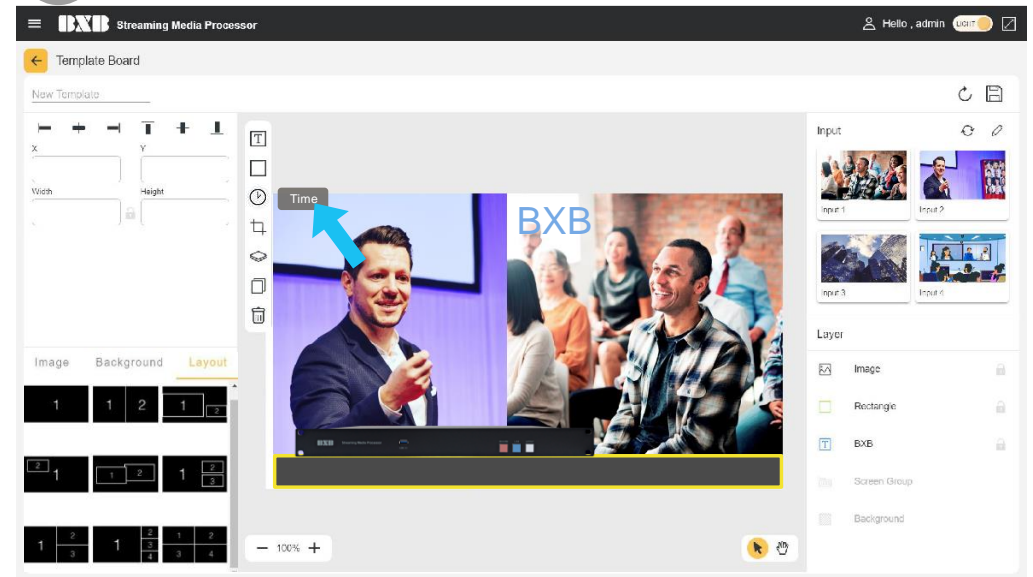
If it is not necessary to display the applied background, just click "Background" under "Layer" to delete the background image.

33



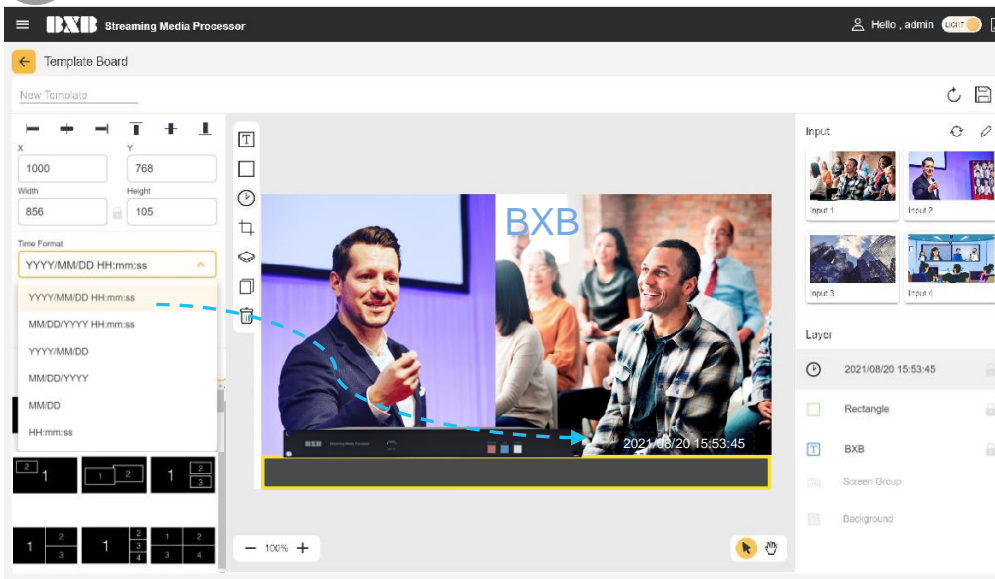
Select a layout from the nine templates built in “Layout” for editing content.

34



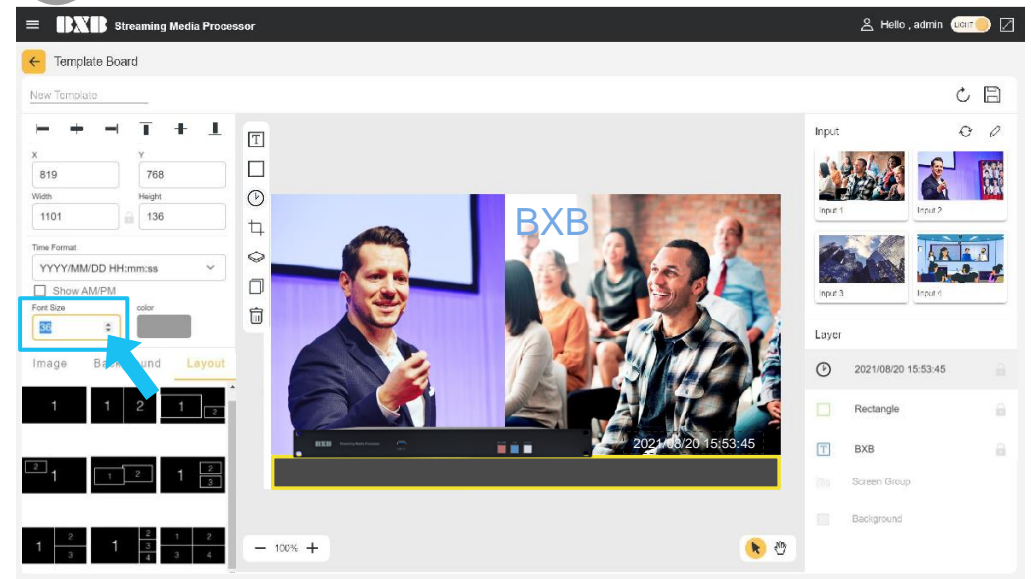
Click “Time” to add date / time display. The present system time can be displayed on the output PGM screen.

35



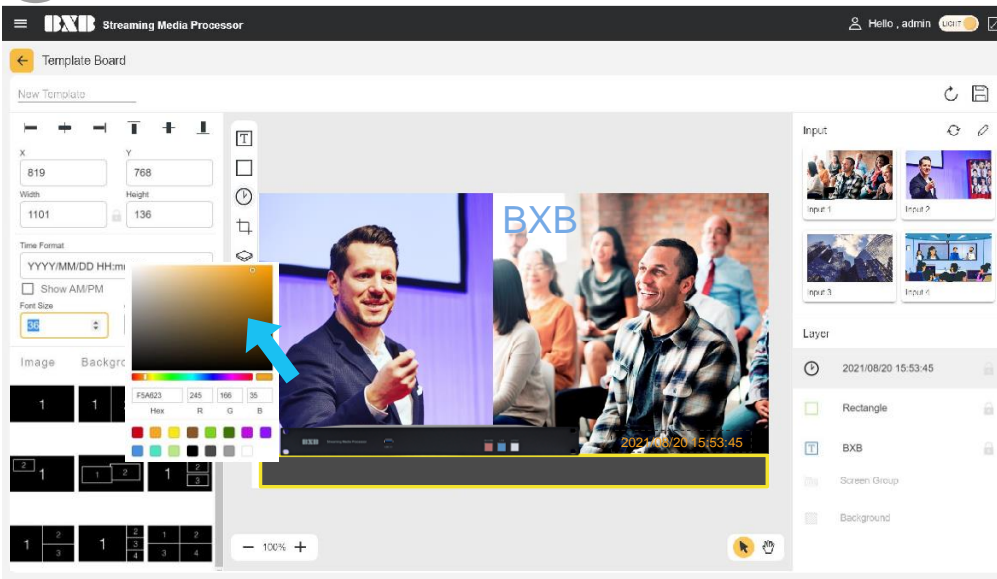
There are multiple display formats of date / time combination built in HDR-731. Click the required mode for editing.

36



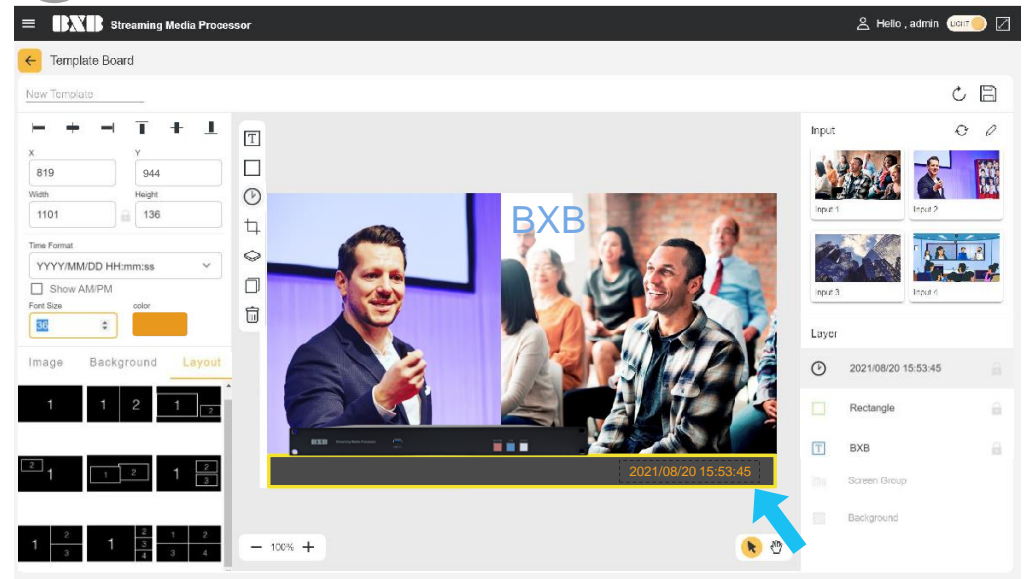
Enter the value to adjust the font size of date / time display.

37



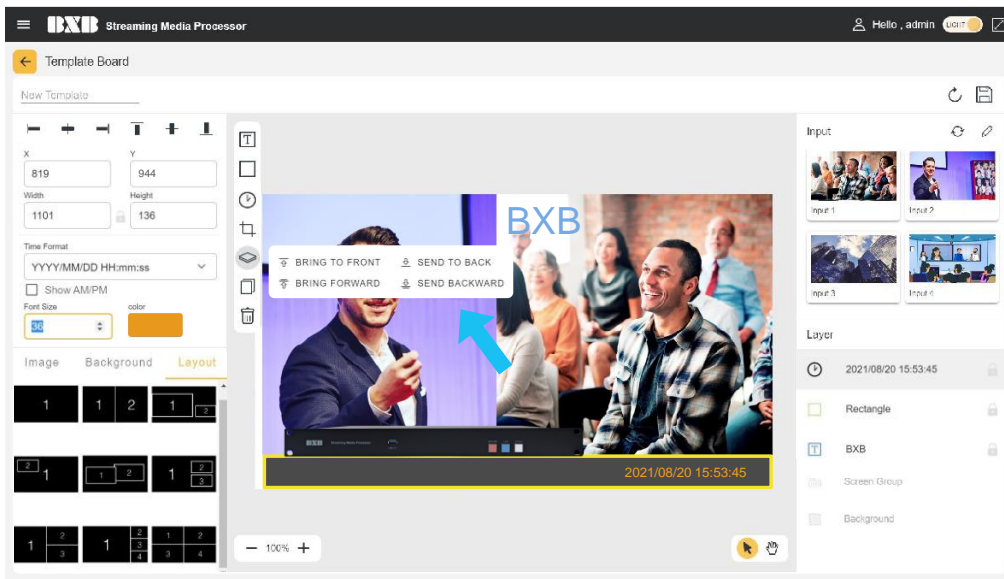
Select the color to change the display color of date / time.

38



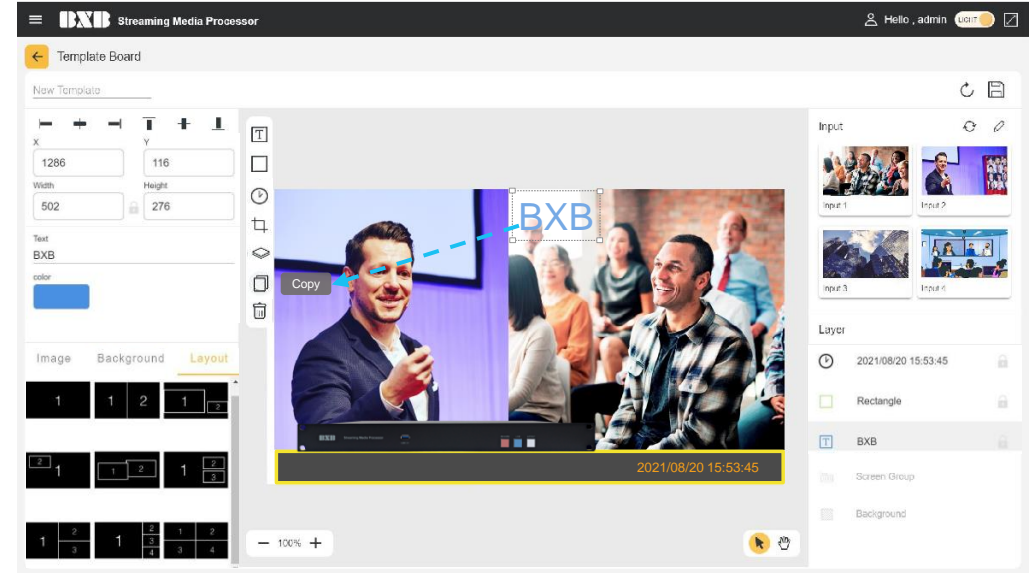
Drag and move the display position.

39



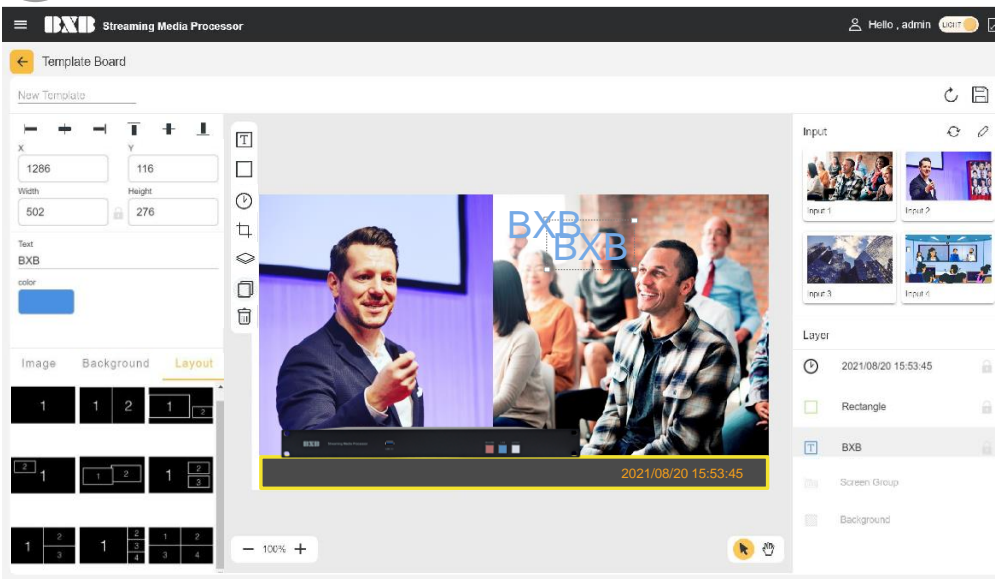
Change the display level overlapped of the selected object.

40

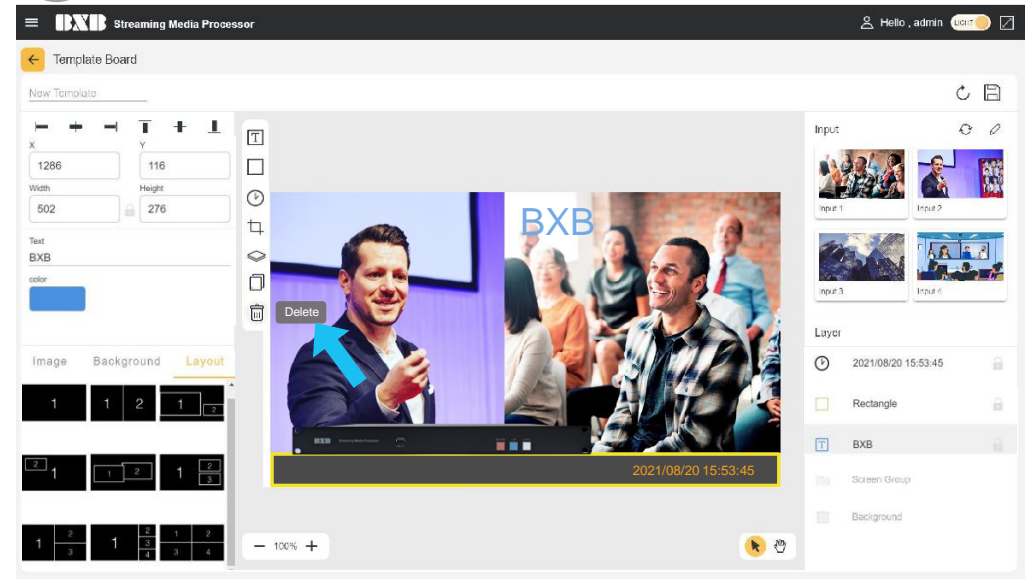


After selecting the object on layout, click "Copy" to copy that object.

41



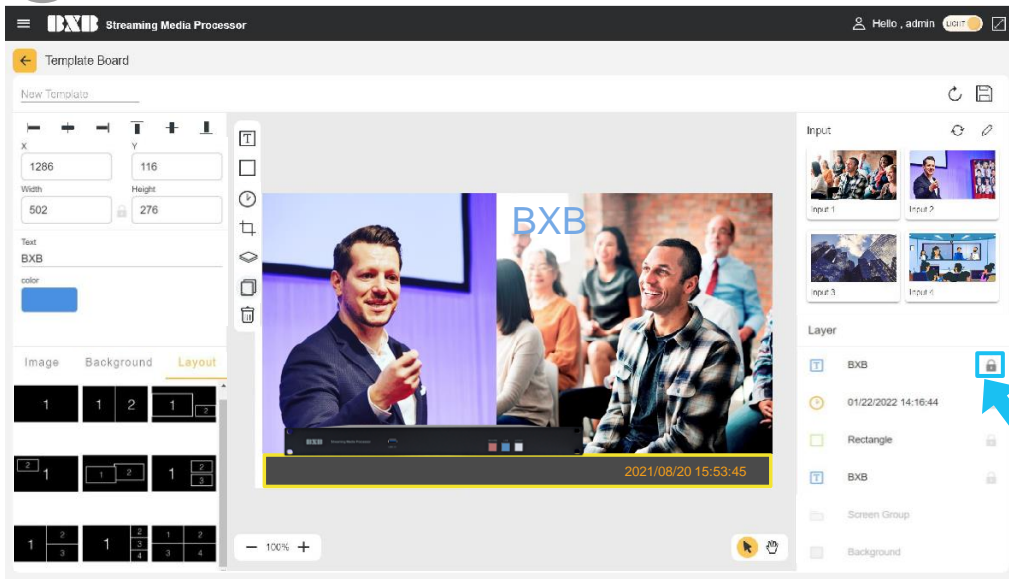
42



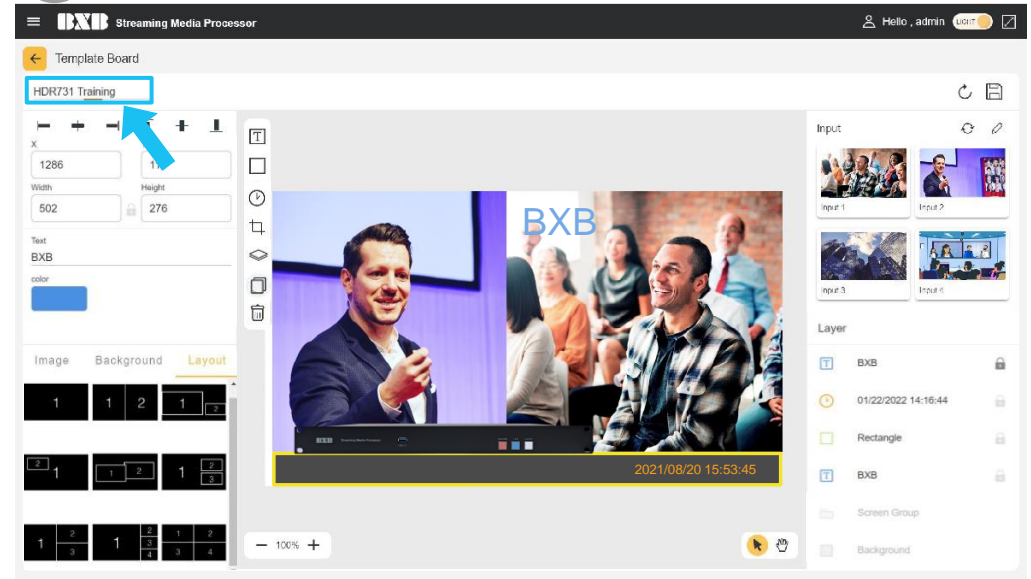
The copied object is repeatedly displayed on the editing screen.

After selecting the object, click "Delete" to delete it from the editing screen.

43



44

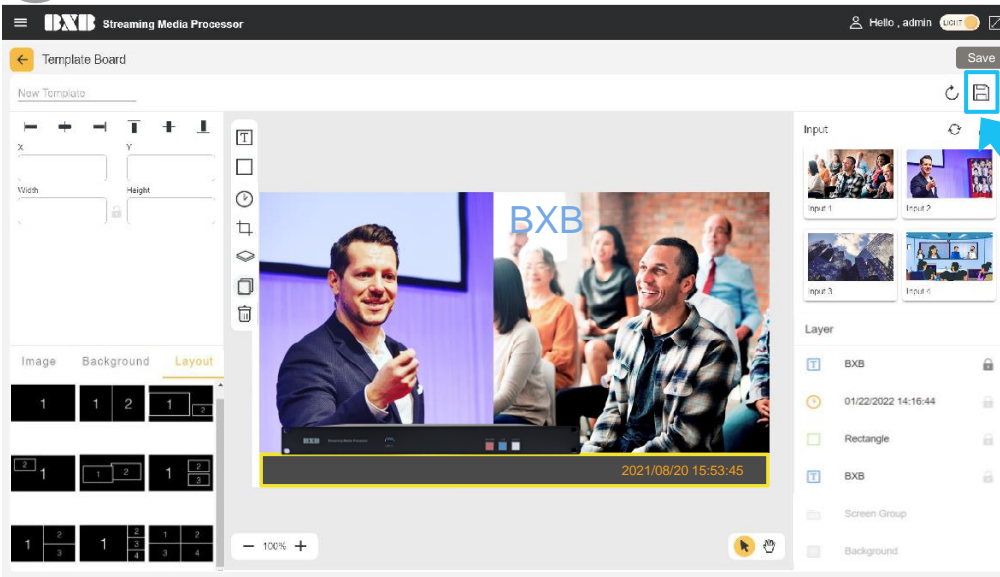


After selecting the object, click “Lock” icon in the layer list, that object can not be selected and edited anymore. To edit that object again, it is necessary to click the “Lock” icon again to unlock editing.

Enter the name of the layout for identification after saving it.



45

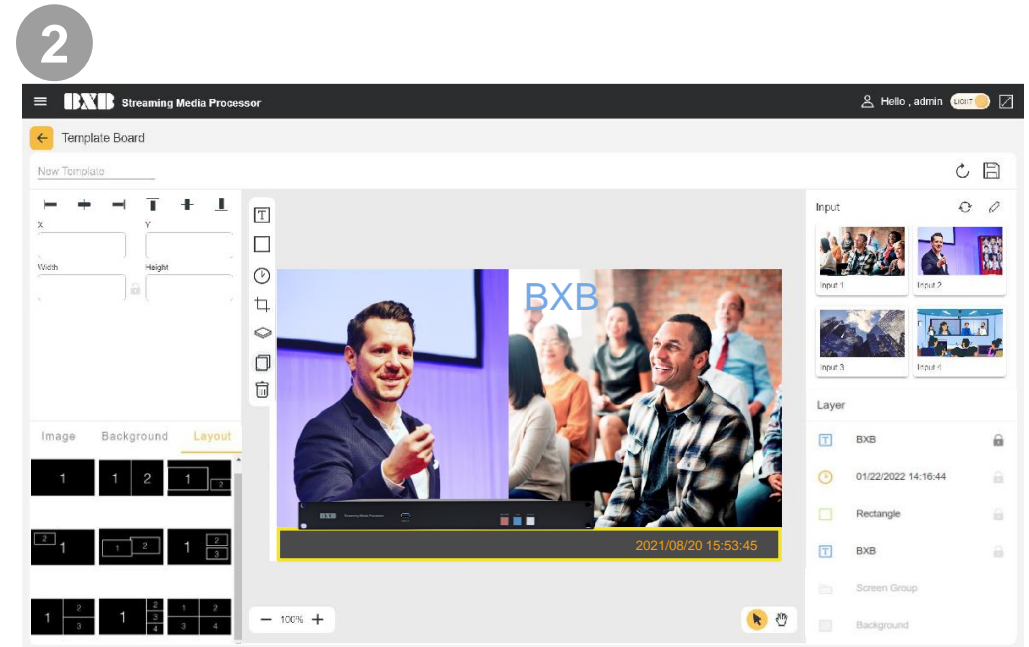
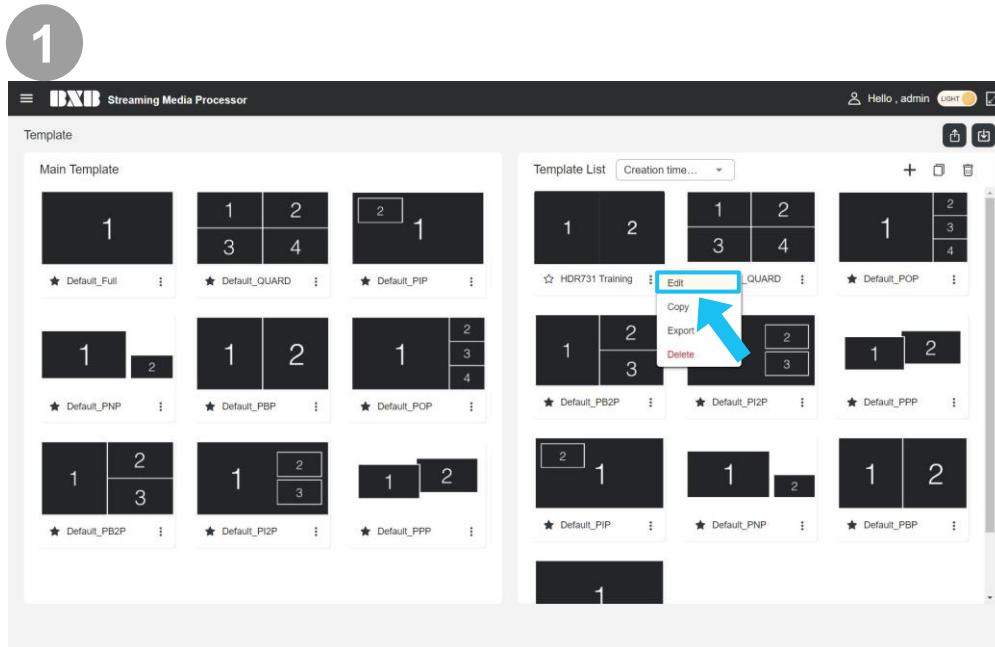


Click "Save" icon to complete this layout editing.

# Web GUI Interface

## Template\_Manage Template

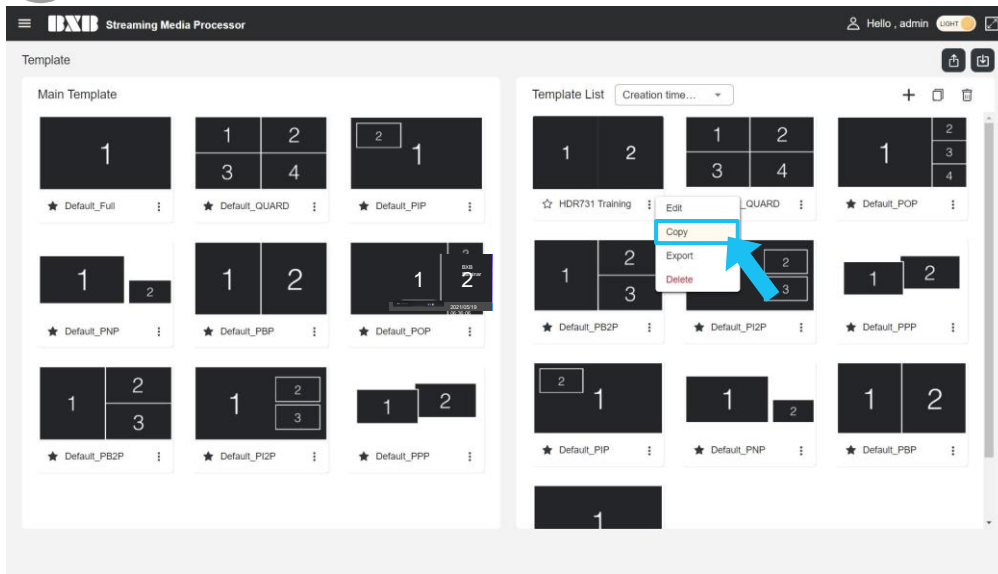
You can edit, copy, or delete the saved layout in Template List.



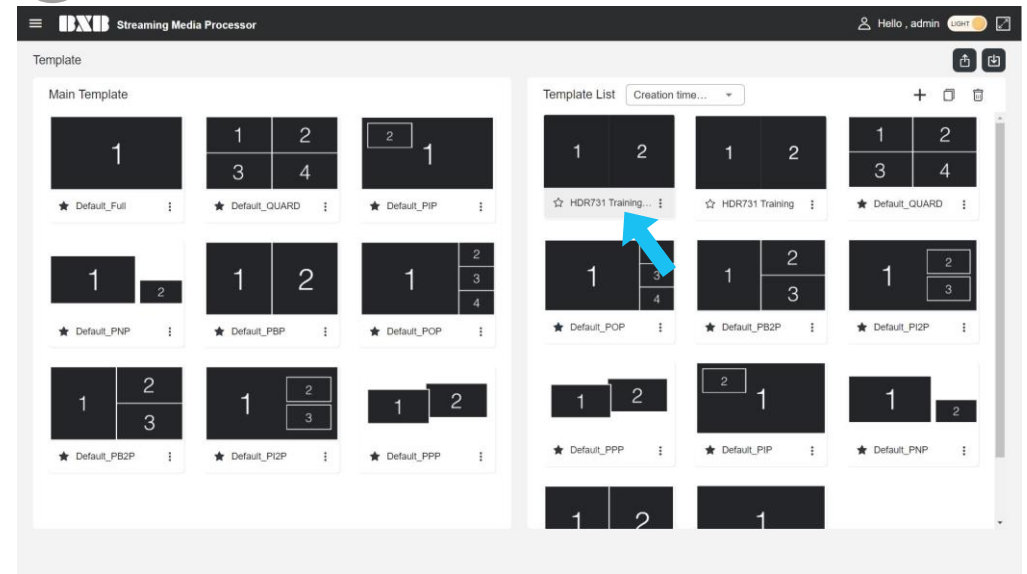
Click the required layout in Template List and then select “Edit” under function items.

That layout would be opened for editing and modification.

3



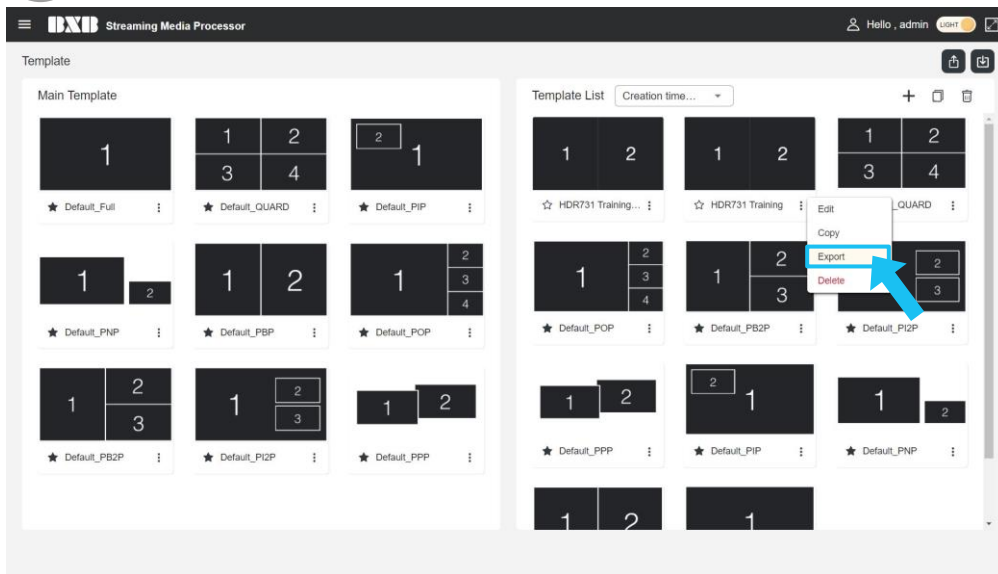
4



Select the required layout in Template List and then select “Copy” under function items.

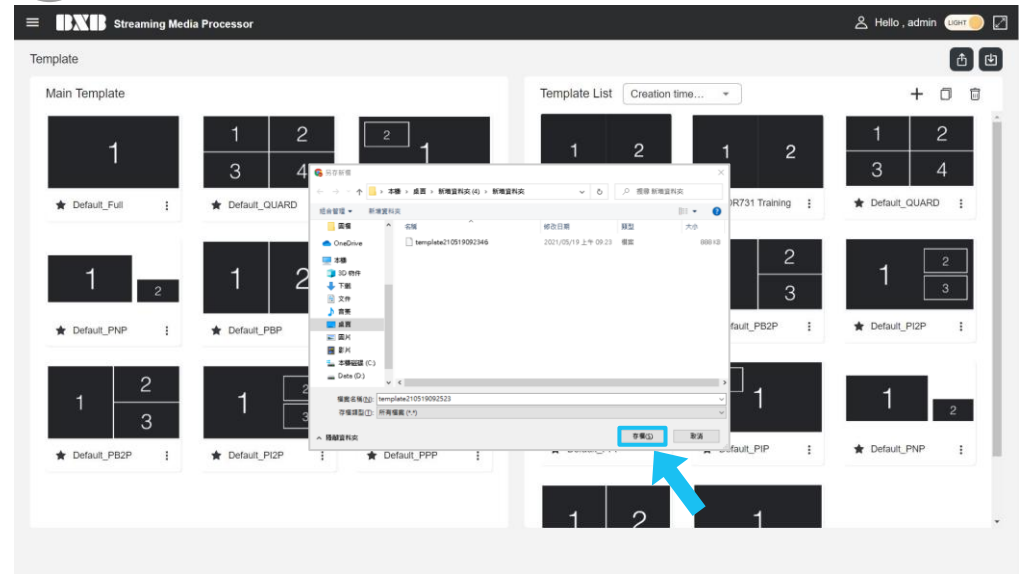
The layout would be copied as the basis for editing and modification.

5



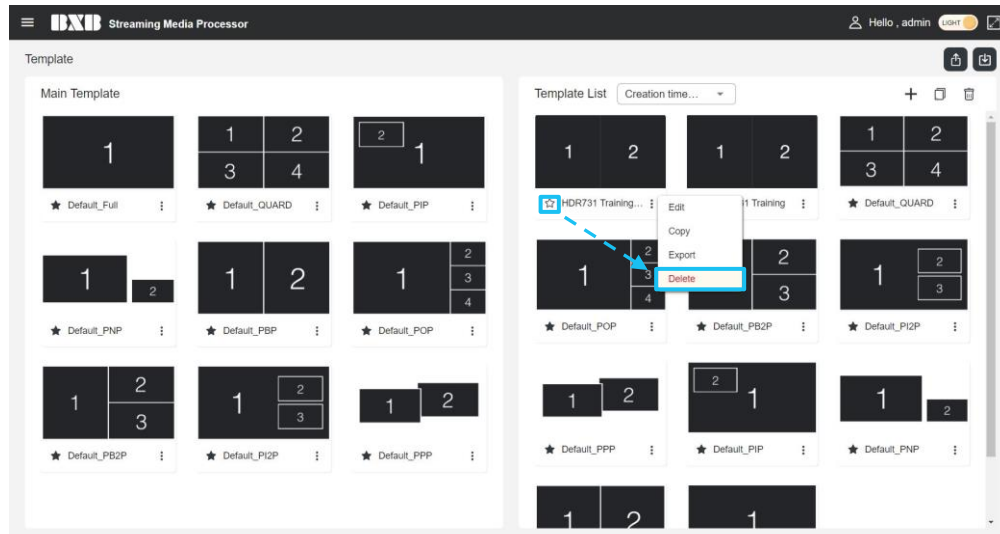
Select the required layout in Template List and then select “Export” under function items.

6

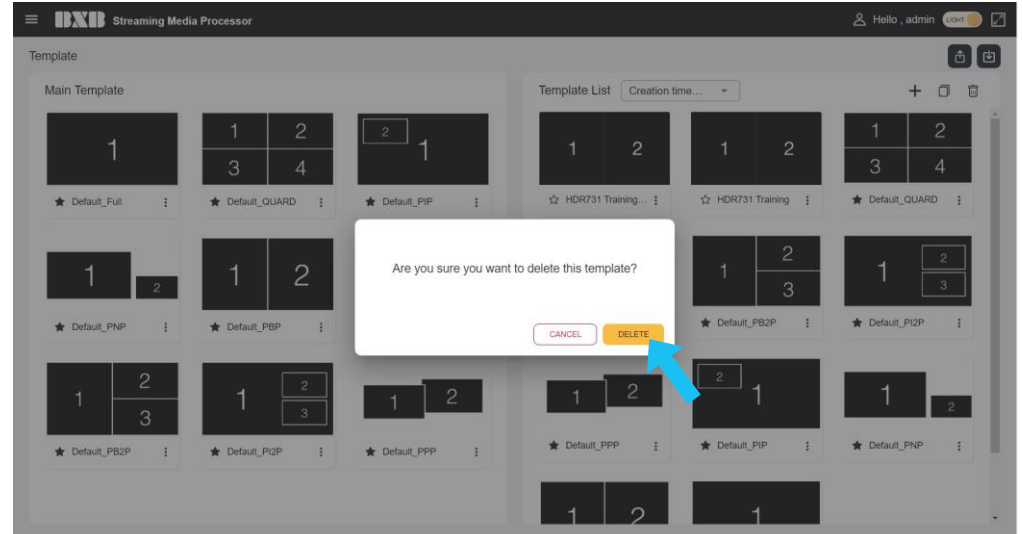


Select storage space sequentially to backup the configuration file of that layout.

7



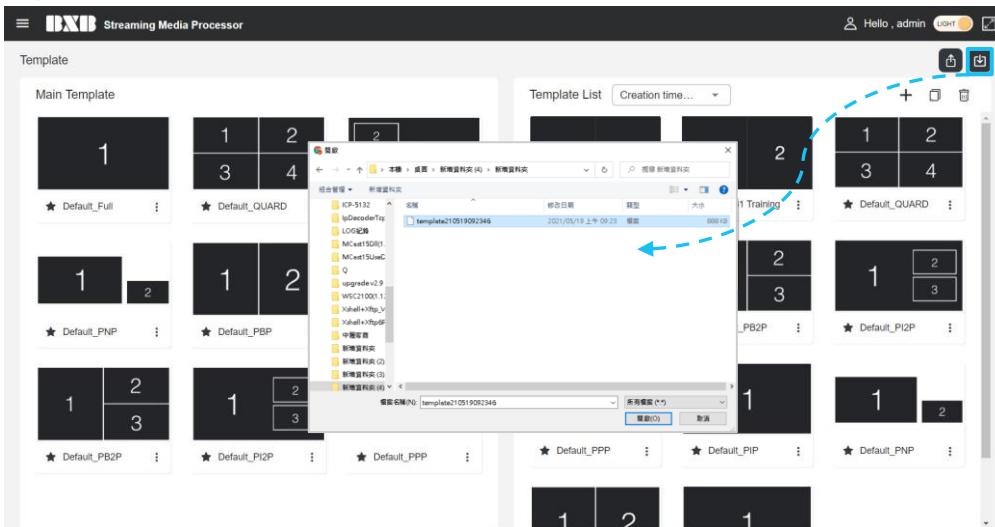
8



Click unapplied template (with white asterisk) in Template List and then select “Delete” under function items.

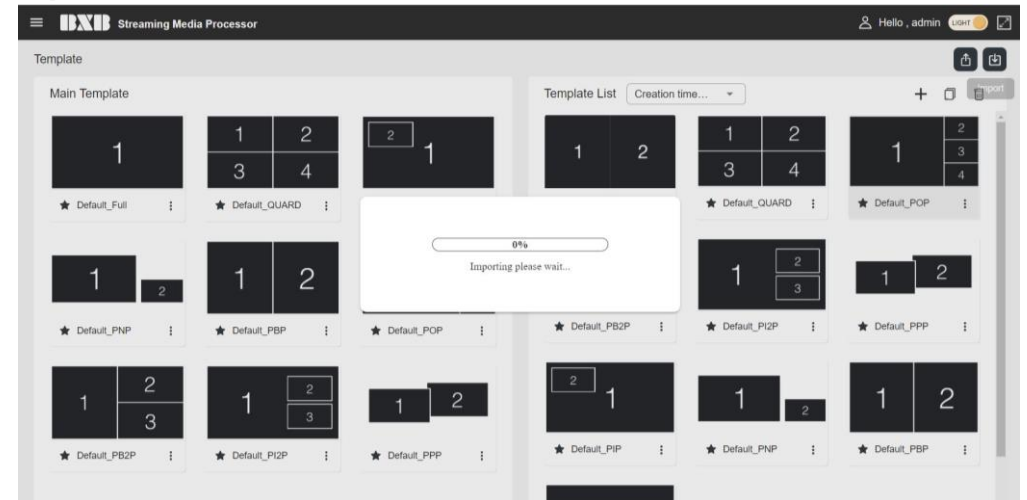
Click “DELETE” for confirmation to delete that layout in Template List.

9



Click "IMPORT" icon and then select the previously exported backup configuration file to import the layout.

10



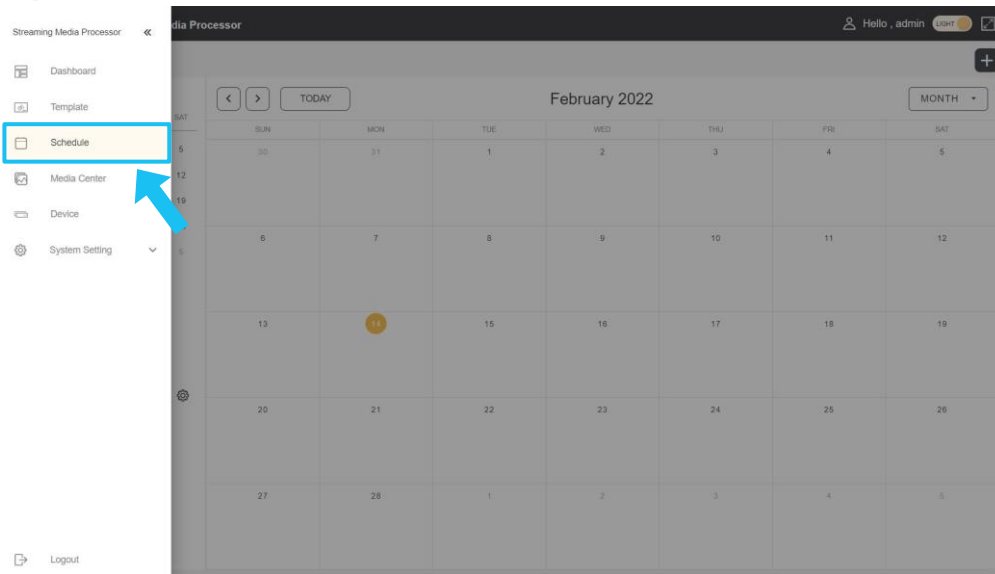
After importing the layout successfully, it will be displayed in Template List.

# Web GUI Interface

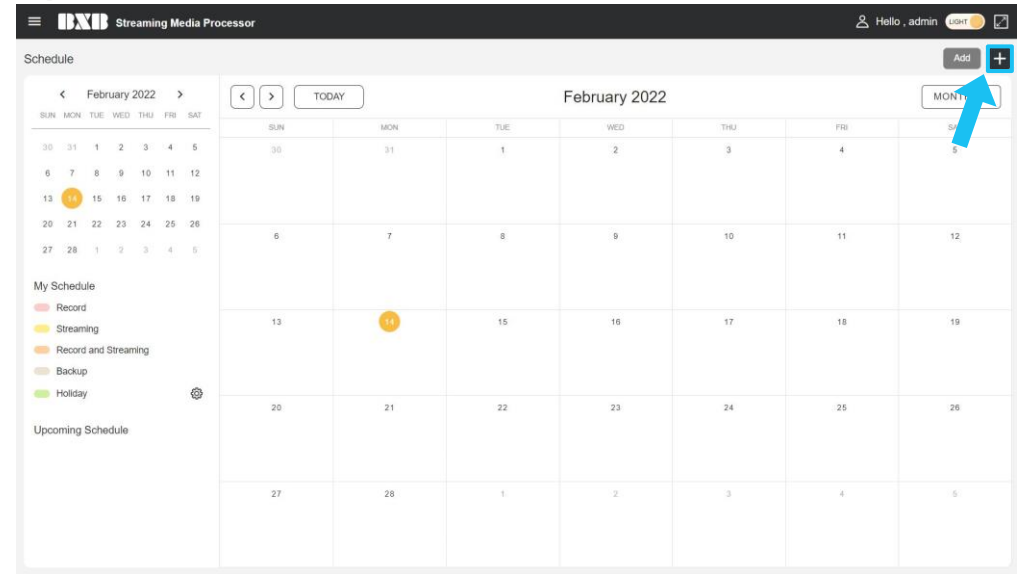
## Schedule\_Reserve Weekly Cycle Schedule

You can perform recording, streaming or backup through pre-defined date and time.

1



2



Select "Schedule" to enter the page.

Click "+" icon to add a work schedule.

3

The screenshot shows the 'Add Schedule' dialog box in the Streaming Media Processor GUI. The 'Name' field is highlighted with a blue arrow and contains the text 'streaming & recording'. The 'Repeat' dropdown menu is set to 'Not Repeat'. The dialog box also includes fields for 'Date' (YYYY-MM-DD) and 'Time' (HH:MM), and buttons for 'CANCEL' and 'SAVE'.

4

The screenshot shows the 'Add Schedule' dialog box in the Streaming Media Processor GUI. The 'Repeat' dropdown menu is open, showing the options 'Not Repeat' and 'Weekly'. A blue arrow points to the 'Weekly' option. The dialog box also includes fields for 'Name', 'Date', and 'Time', and buttons for 'CANCEL' and 'SAVE'.

Enter text in “Name” to name that schedule.

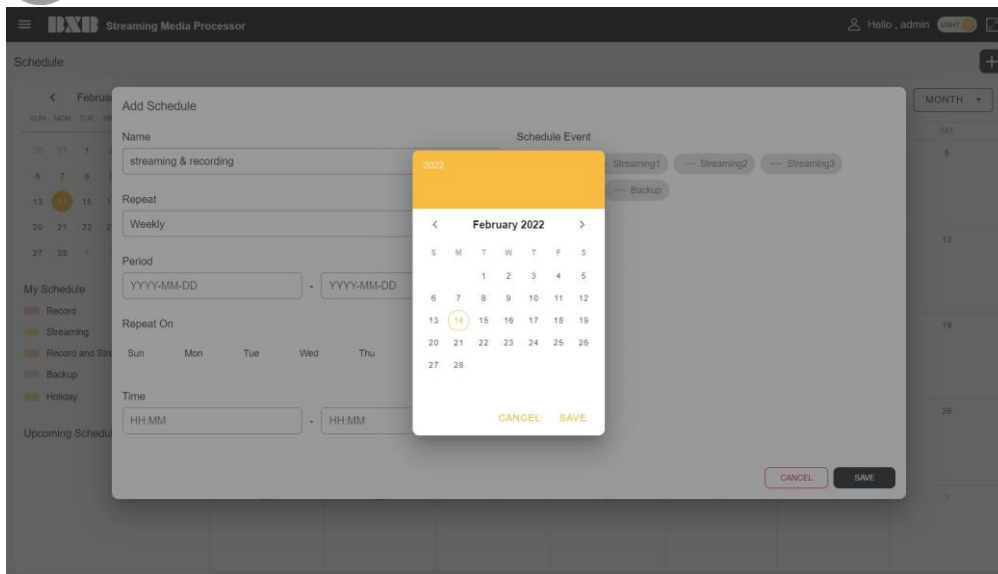
You can select “Not Repeat” or “Weekly” for the working mode. If you select “Weekly”, the system will reserve weekly cycled execution.



# Web GUI Interface

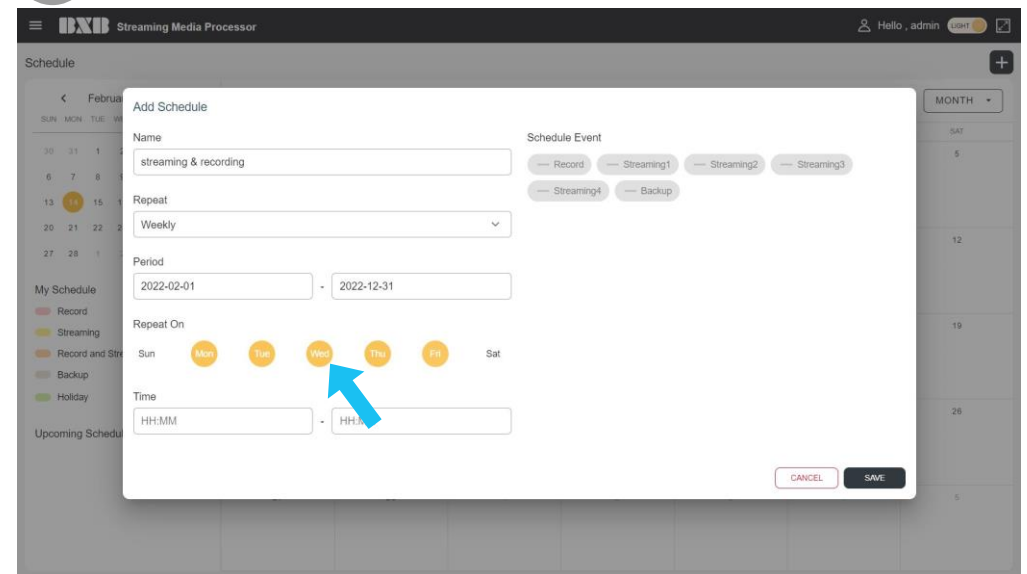
## Schedule\_Reserve Weekly Cycle Schedule

5



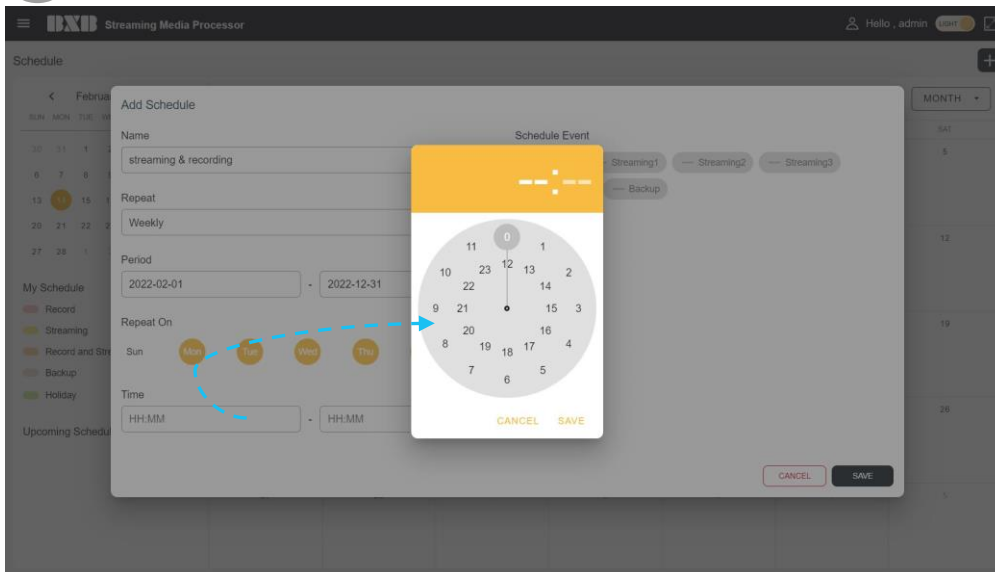
Select the date interval to reserve the execution period of that schedule.

6



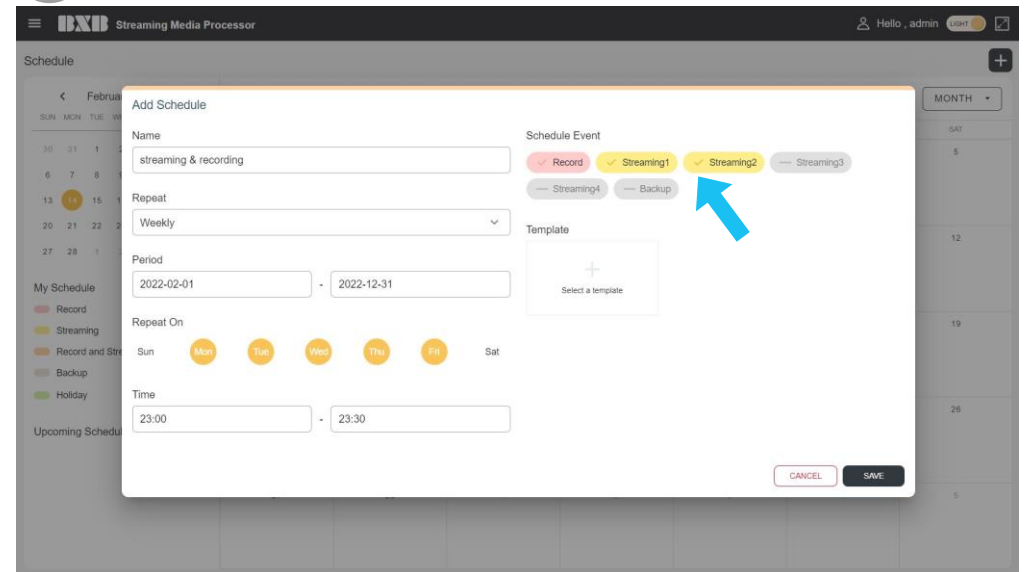
Select the weekly working day of the reserved schedule.

7



Define the start time and finish time of the schedule sequentially.

8

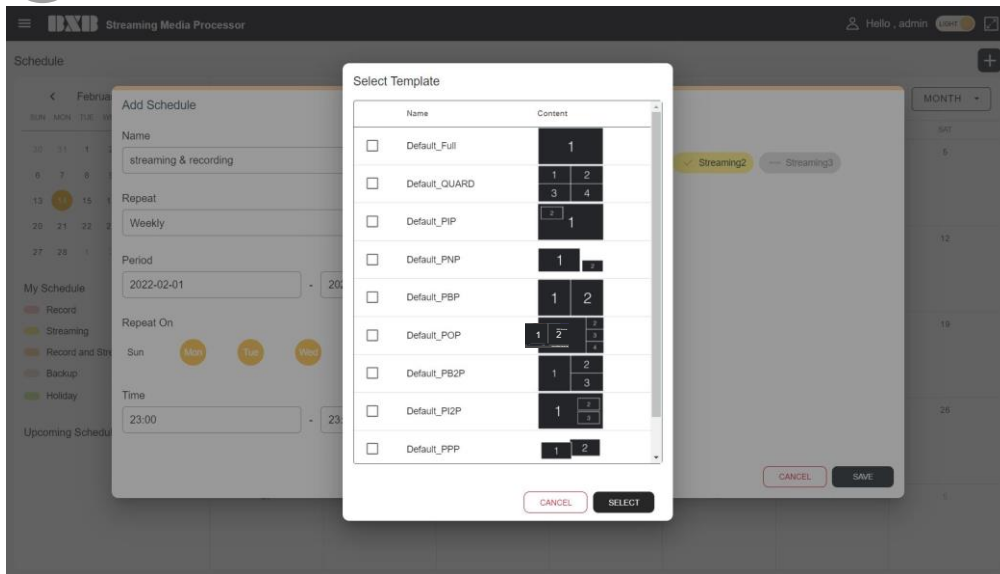


Select the action to be implemented during the reserved schedule. You can select recording, streaming or backup; if backup is selected, recording and streaming are not allowed to be reserved at the same time.

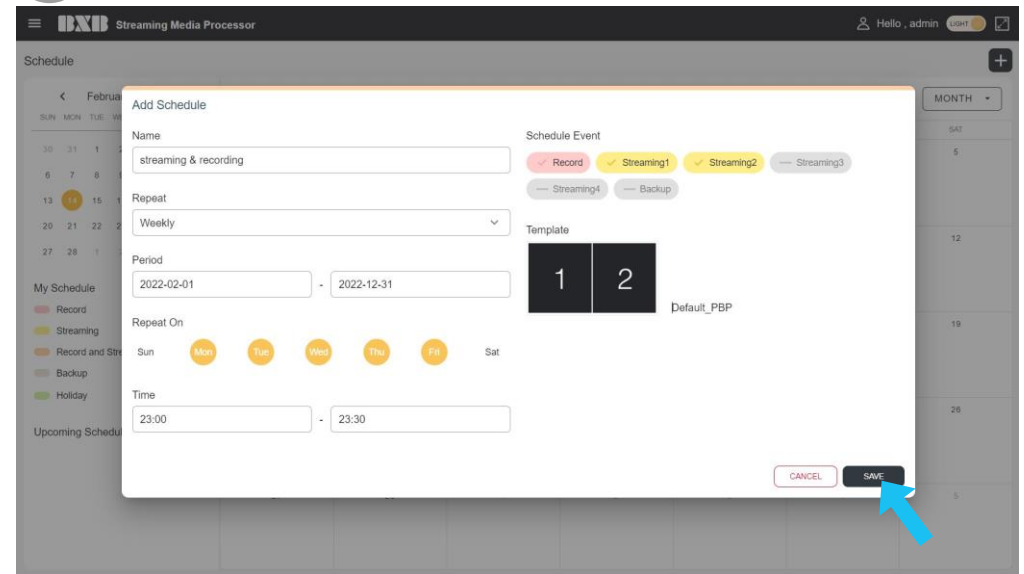
# Web GUI Interface

## Schedule\_Reserve Weekly Cycle Schedule

9



10



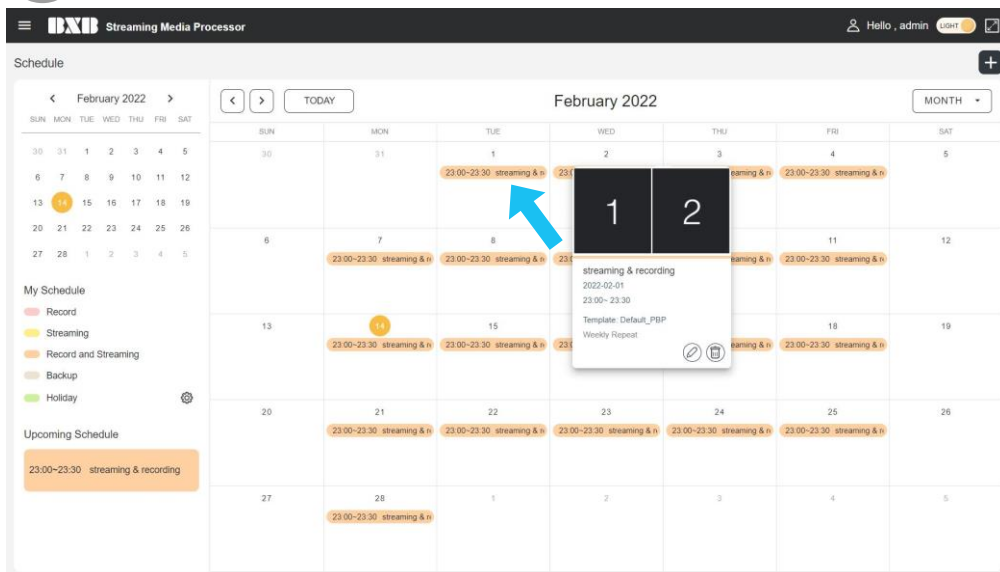
To reserve the recording or streaming in that schedule, you must select a template to be applied.

Click "SAVE" to complete this scheduling reservation.

# Web GUI Interface

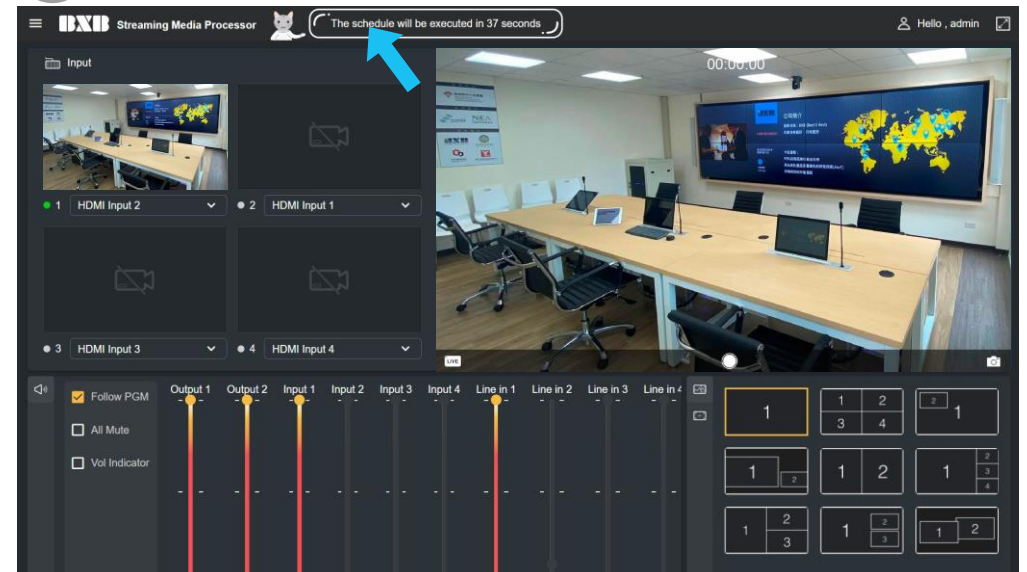
## Schedule\_Reserve Weekly Cycle Schedule

11



Click the schedule in calendar to see the reserved content.

12



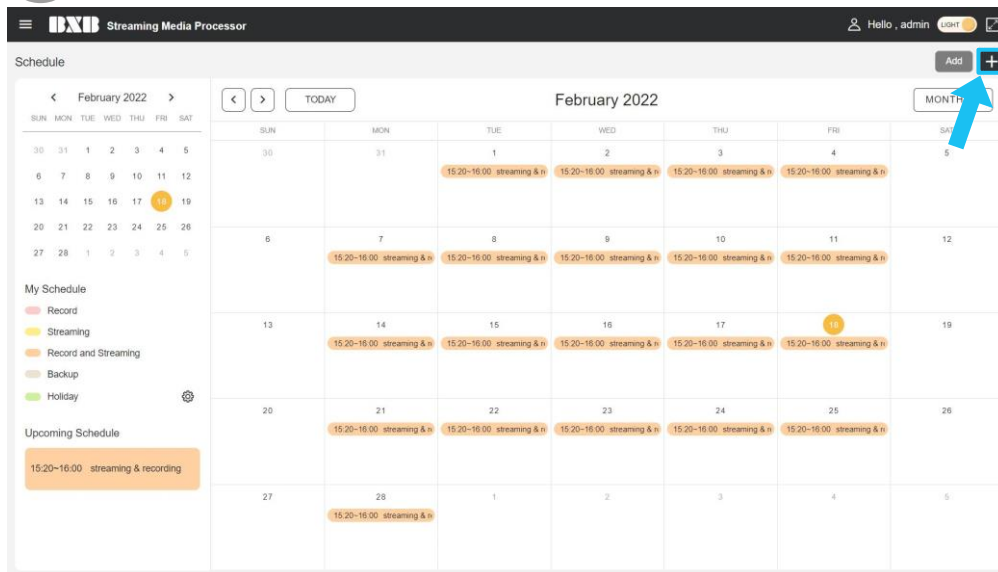
The reserved schedule will start implementing the task one minute ahead. HDR-731 will give an indication.

# Web GUI Interface

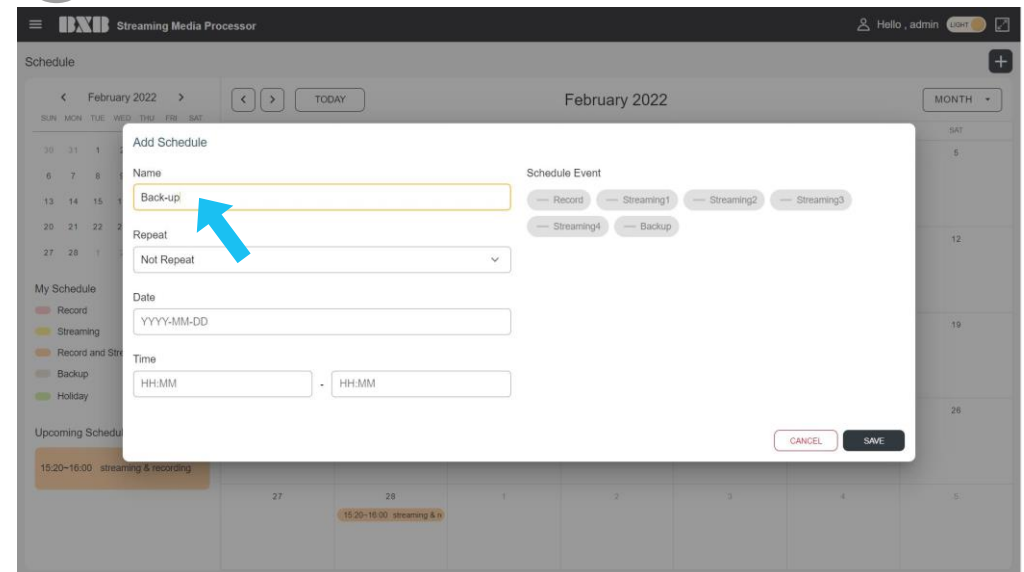
## Schedule\_Reserve Single-day Schedule

You can perform recording, streaming or backup through pre-defined date and time.

1



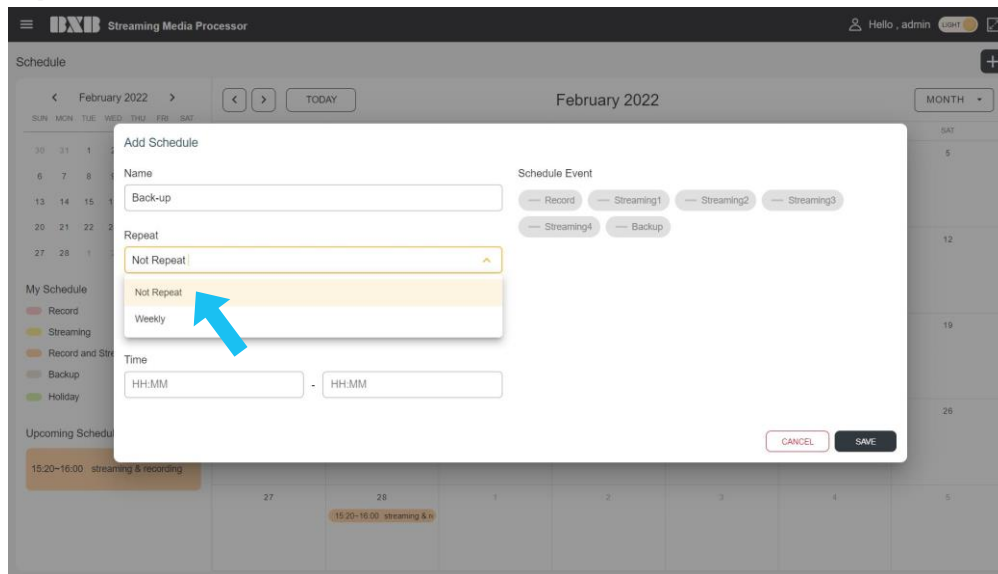
2



Click icon “+” to add a working schedule.

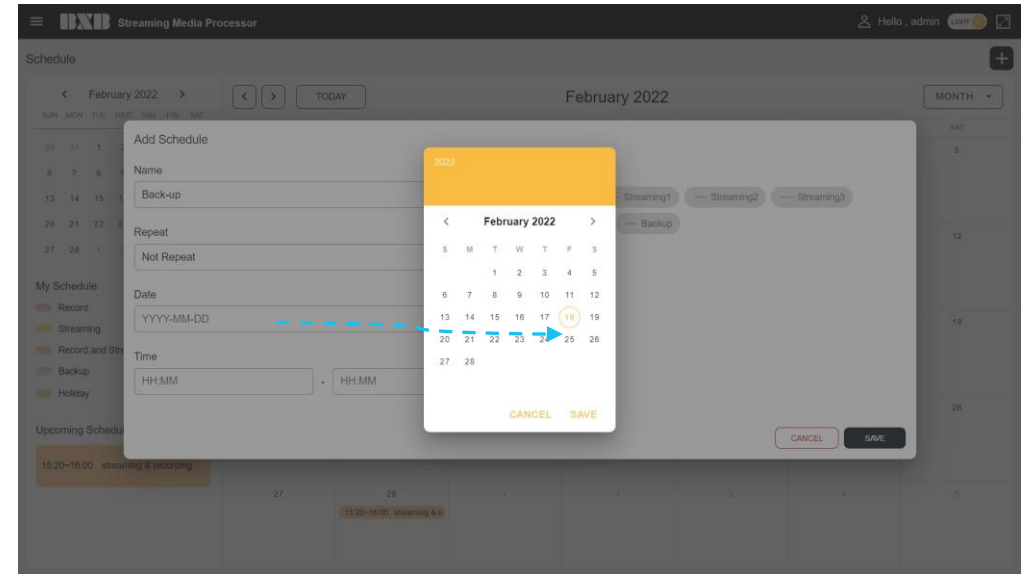
Enter text in “Name” to name that schedule.

3



Select "Not Repeat" mode to reserve a working schedule of specific date.

4

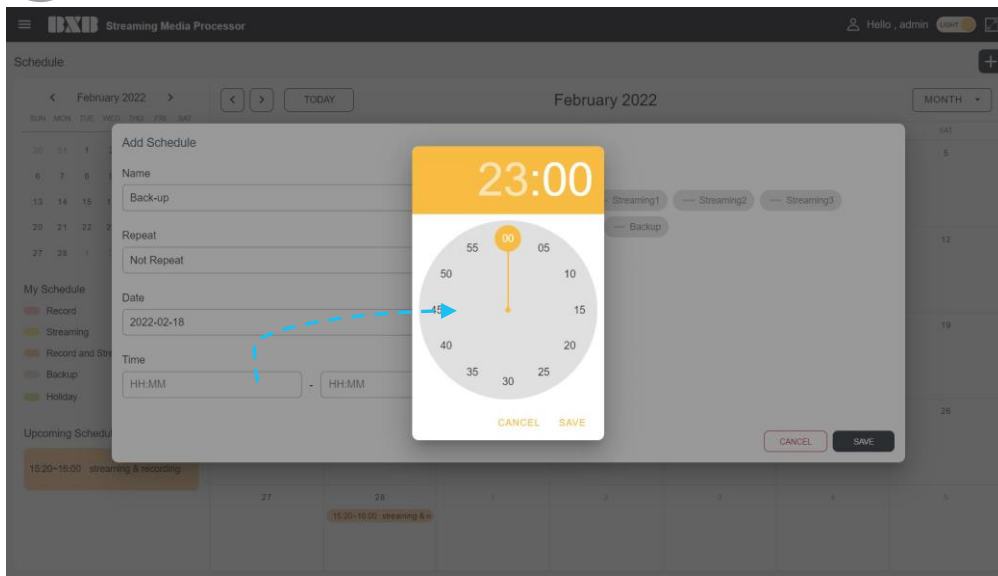


Select the date to reserve single-day schedule. That schedule will implement the reserved task on that day.

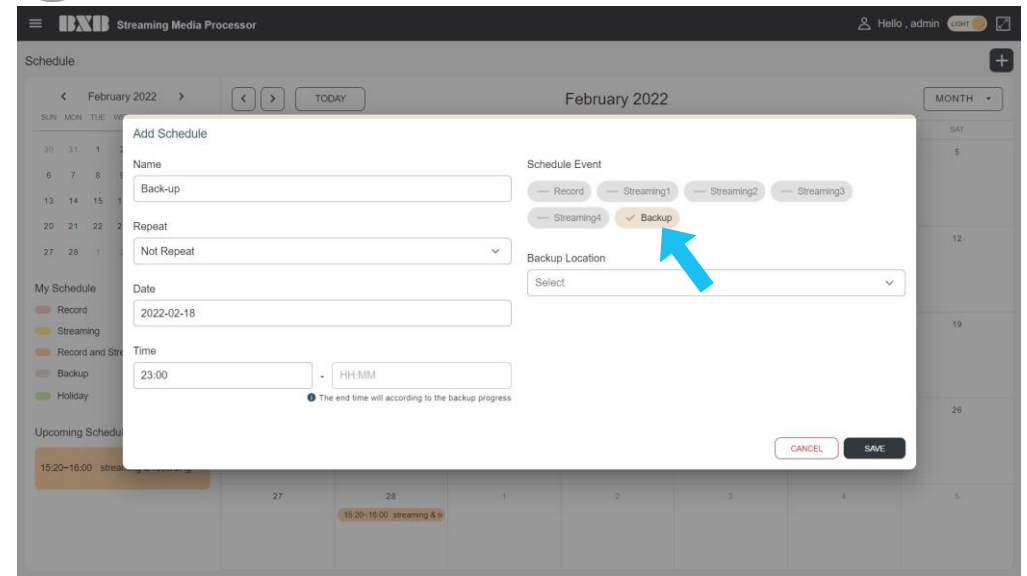
# Web GUI Interface

## Schedule\_Reserve Single-day Schedule

5



6



Select the start time and finish time of the task to be implemented.

Select the reserved task to be implemented. "Backup" is set for this example.

7

Streaming Media Processor

Schedule

February 2022

Back-up

Record Streaming1 Streaming2 Streaming3

Repeat Not Repeat

Backup Location

2022-02-18

23:00

usb-1

CANCEL SAVE

8

Streaming Media Processor

Schedule

February 2022

Back-up

Record Streaming1 Streaming2 Streaming3

Repeat Not Repeat

Backup Location

2022-02-18

23:00

usb-1

CANCEL SAVE

Select the storage location for backup. External storage space (USB) or remote storage space (NFS, FTP) are available for selection.

Click "SAVE" to complete schedule reservation.



9

The screenshot shows the 'Streaming Media Processor' interface. The calendar for February 2022 is displayed. A blue arrow points to a 'Back-up' schedule entry on Friday, February 18th, which is highlighted with a yellow circle. The interface includes a sidebar with navigation options and a main calendar grid.

10

The screenshot shows the 'Streaming Media Processor' interface. The calendar for February 2022 is displayed. A blue arrow points to a 'Time Conflict' warning on Friday, February 23rd, which is highlighted with a yellow circle. The interface includes a sidebar with navigation options and a main calendar grid.

Select the reserved schedule to modify / delete reservation content. If that schedule is “Weekly Cycle” mode, it will modify / delete the same reserved schedule on other dates as well.

If two schedules are configured at the same time and day, an exclamation mark will be shown to indicate time conflict. If it is not modified, the system will select one of the schedules for implementation.

# Web GUI Interface

## Schedule\_Holiday Setting

If the selected date is set as “Holiday”, the reserved tasks such as recording and streaming will not be implemented on that day.

1

The screenshot shows the 'Schedule' page for February 2022. The interface includes a navigation bar with 'Streaming Media Processor' and user information. The main area displays a calendar with tasks such as '15:20-16:00 streaming & n' and '23:00- Backup'. A legend on the left identifies task types: Record, Streaming, Record and Streaming, Backup, and Holiday. In the 'Upcoming Schedule' section, a blue arrow points to the 'Holiday Setting' button.

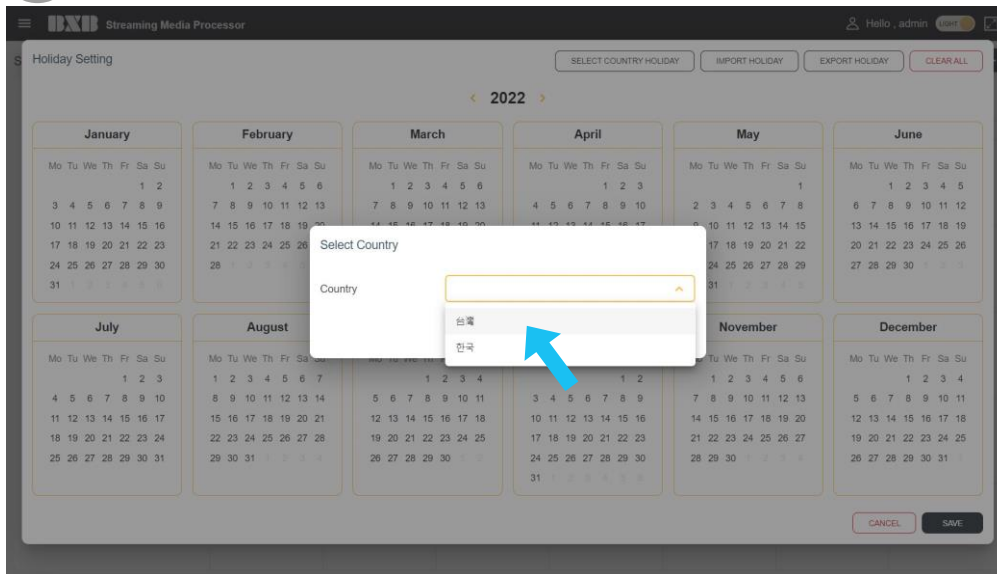
2

The screenshot shows the 'Holiday Setting' page for the year 2022. It features a grid of 12 monthly calendars. At the top, there are buttons for 'SELECT COUNTRY HOLIDAY', 'IMPORT HOLIDAY', 'EXPORT HOLIDAY', and 'CLEAR ALL'. A blue arrow points to the 'SELECT COUNTRY HOLIDAY' button. At the bottom, there are 'CANCEL' and 'SAVE' buttons.

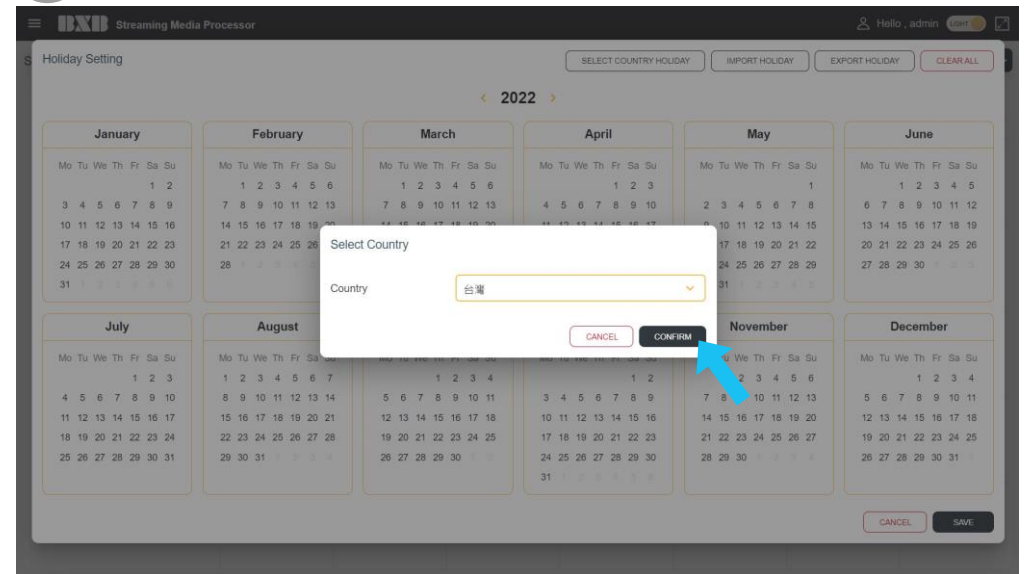
Click “Holiday Setting” to open the setting page.

Click “SELECT COUNTRY HOLIDAY” to apply holiday settings based on the cloud database.

3



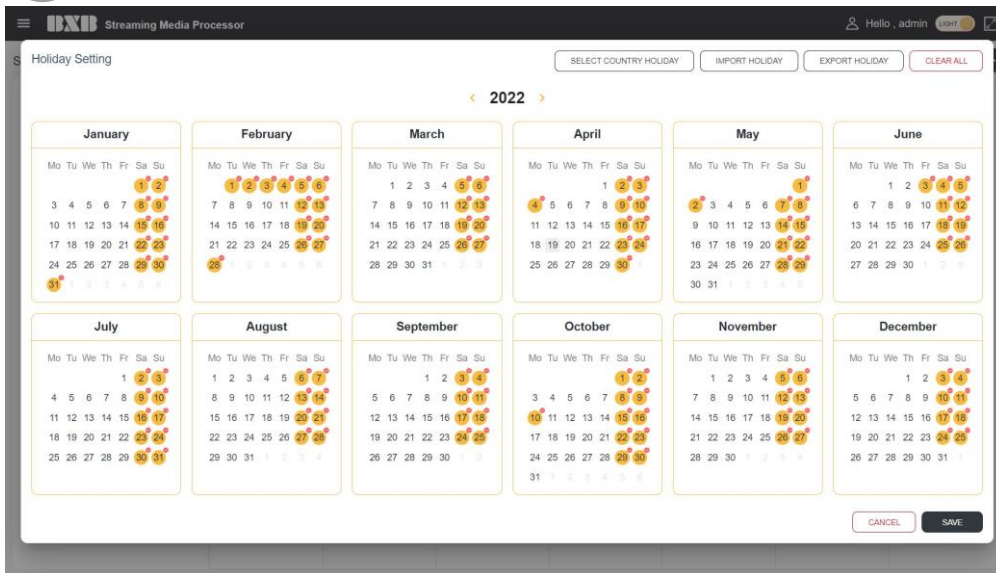
4



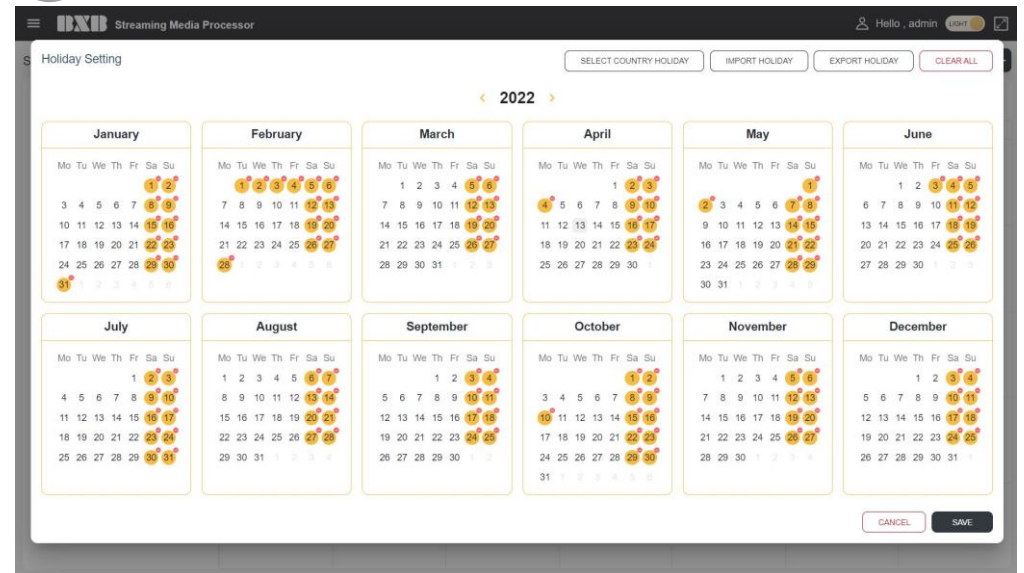
Select a country. Presently, BXB cloud database only supports “Taiwan” and “Korea”.

Click “CONFIRM” to apply the holiday information to HDR-731.

5



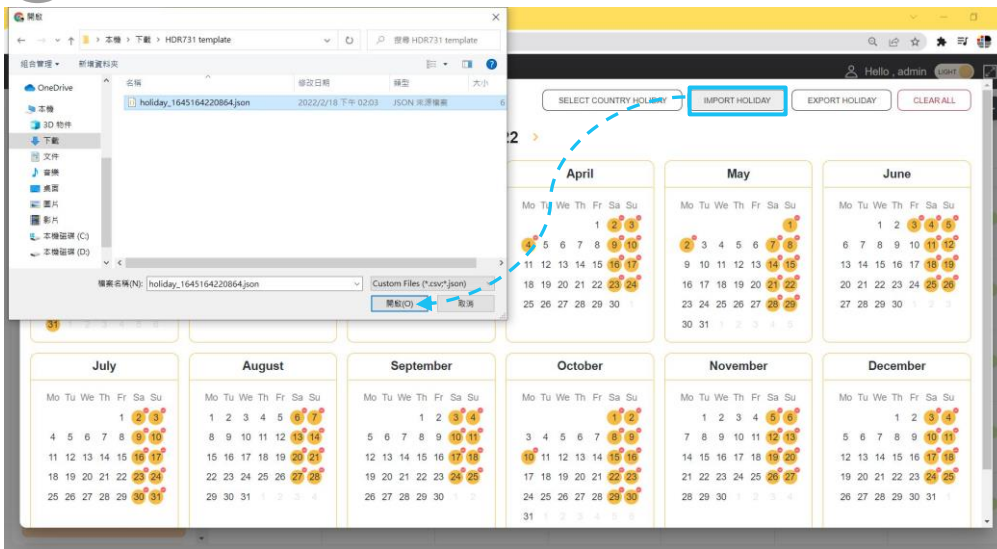
6



Multiselect the selected date (displayed in yellow color) on calendar to cancel the holiday setting.

Click the unselected date (displayed in white color) to add that date as holiday. "Recording" and "Streaming" will not be implemented on that date.

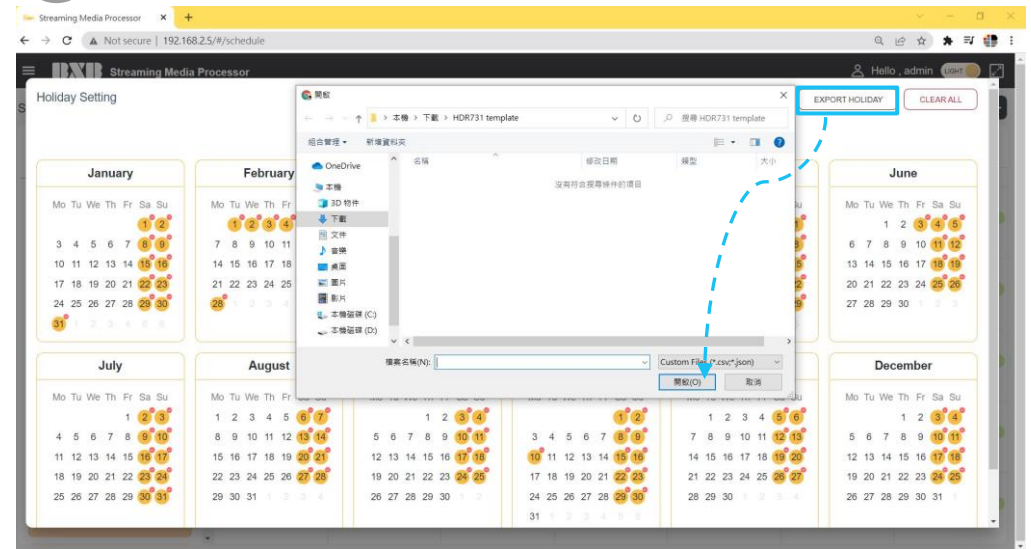
7



Click “IMPORT HOLIDAY” to select holiday configuration file and then import it to HDR-731 to apply holiday setting.

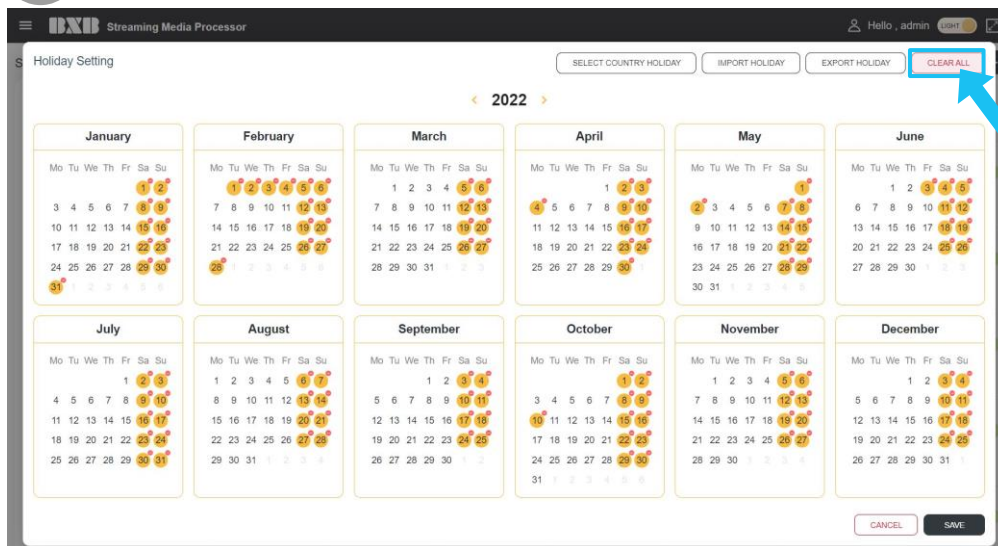
For editing the holiday configuration file, please refer to descriptions on [Page 153](#) of “Appendix - Holiday Setting”.

8

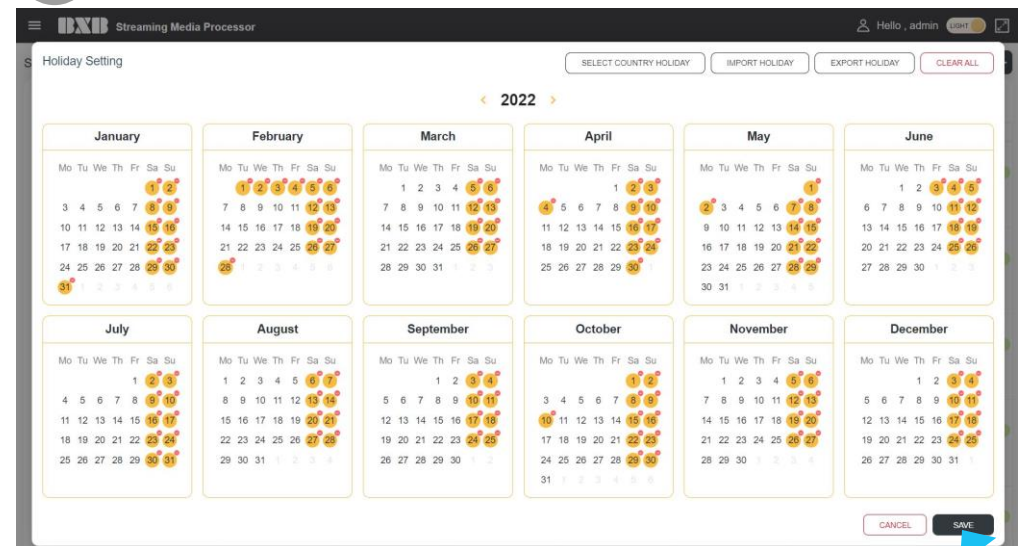


Click “EXPORT HOLIDAY” to save the holiday setting as configuration file for backup or provide it for other HDR-731 to import.

9



10



Click "CLEAR ALL" to clear holiday setting on all dates.

Click "SAVE" to complete holiday setting.

11

Schedule

February 2022

SUN MON TUE WED THU FRI SAT

30 31 1 2 3 4 5

6 7 8 9 10 11 12

13 14 15 16 17 18 19

20 21 22 23 24 25 26

27 28 1 2 3 4 5

My Schedule

- Record
- Streaming
- Record and Streaming
- Backup
- Holiday

Upcoming Schedule

- 15:20-16:00 streaming & recording
- 23:00- Back-up

12

Schedule

February 2022

SUN MON TUE WED THU FRI SAT

30 31 1 2 3 4 5

6 7 8 9 10 11 12

13 14 15 16 17 18 19

20 21 22 23 24 25 26

27 28 1 2 3 4 5

My Schedule

- Record
- Streaming
- Record and Streaming
- Backup
- Holiday

Upcoming Schedule

- 15:20-16:00 streaming & recording
- 23:00- Back-up

After completing holiday setting, the related dates will be displayed as holidays.

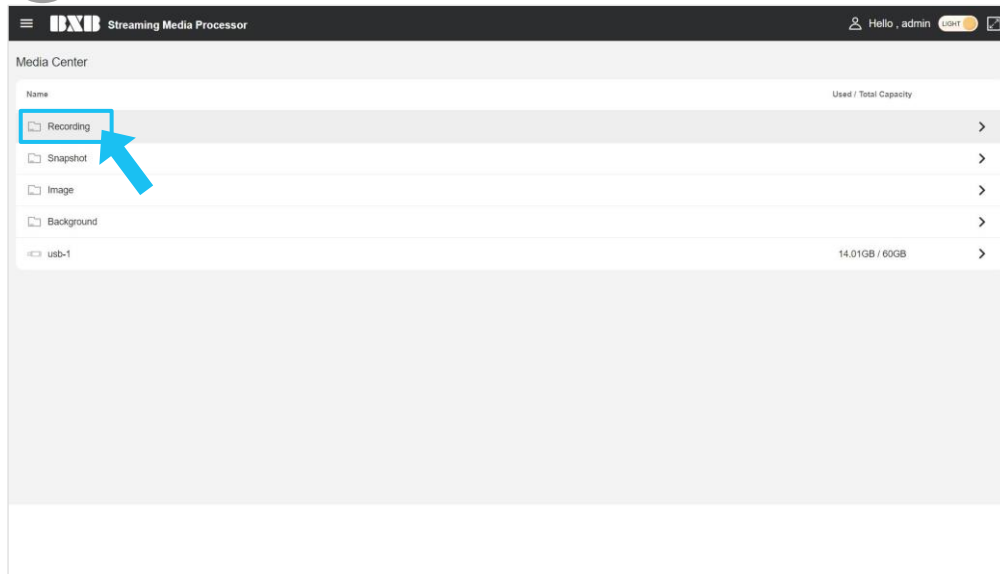
If that date is set as "Holiday", the reserved schedule of recording and streaming will not be implemented.

# Web GUI Interface

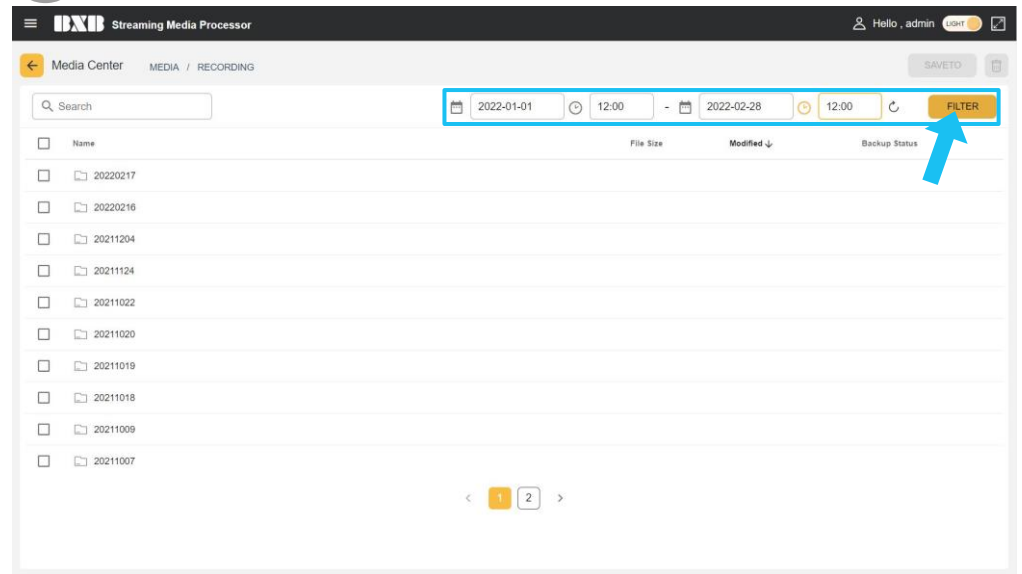
## Media Center\_Recording Folder

For HDR-731 recording function, when recording is over or reaches preset recording time period, the recording file will be created and saved in the internal storage space. You can view, save to USB/remote drive/local, or delete recording files in Recording folder.

1



2



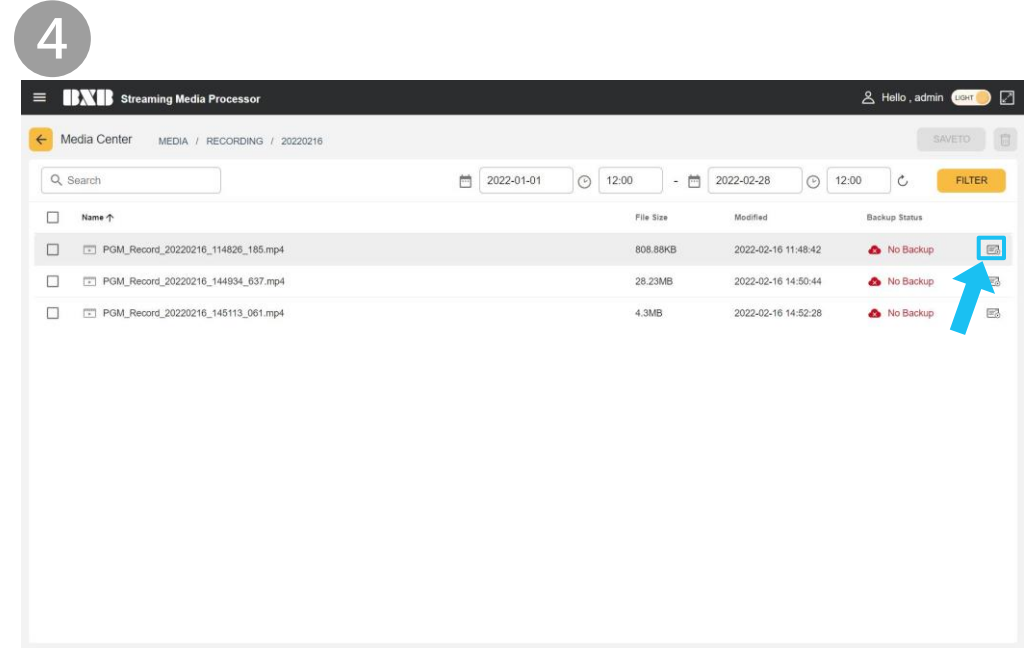
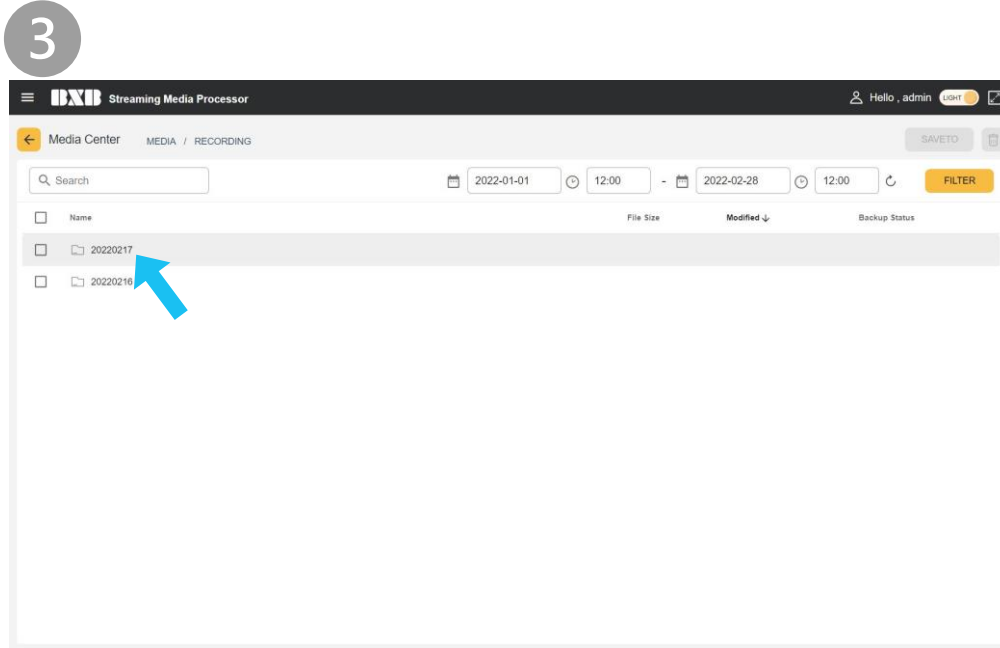
“Recording” folder is the storage space for recording files.

You can search the recording file based on date interval.



# Web GUI Interface

## Media Center\_Recording Folder



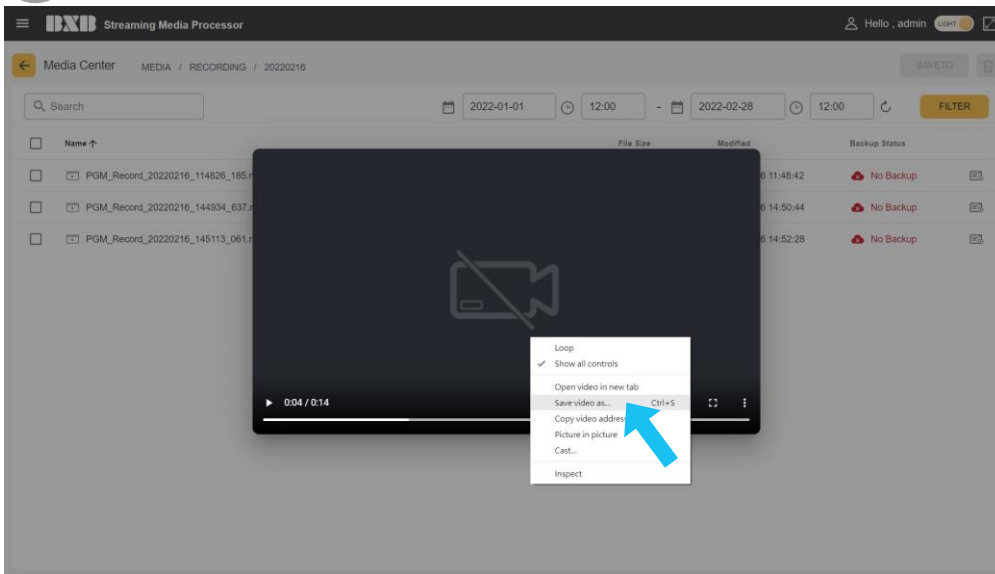
Click the folder name to enter the folder. The folder is named based on the creation date.

Click "Preview" icon of the selected file to open the browse window.

# Web GUI Interface

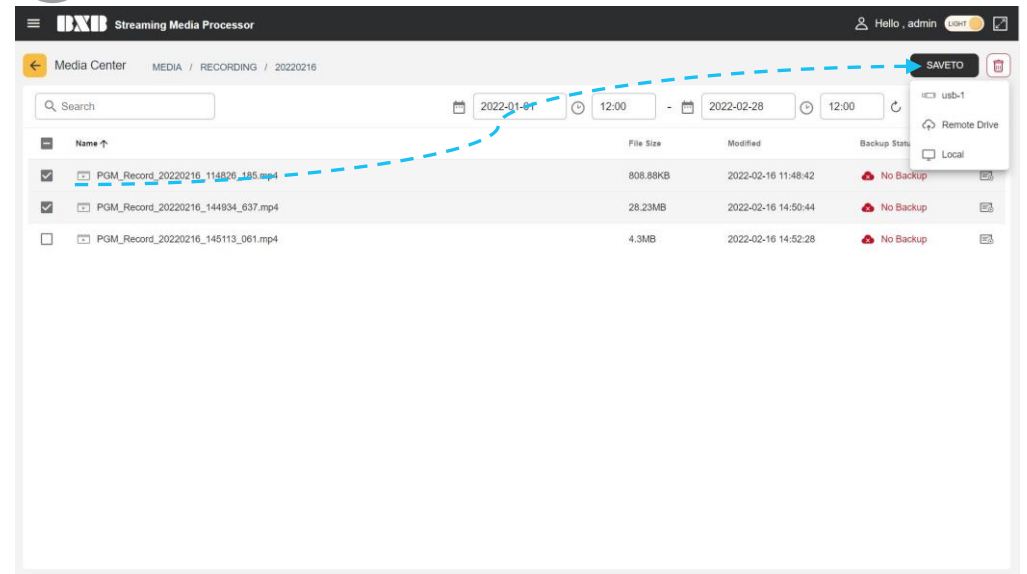
## Media Center\_Recording Folder

5



You can save the video or change to picture-in-picture display mode during file browsing.

6

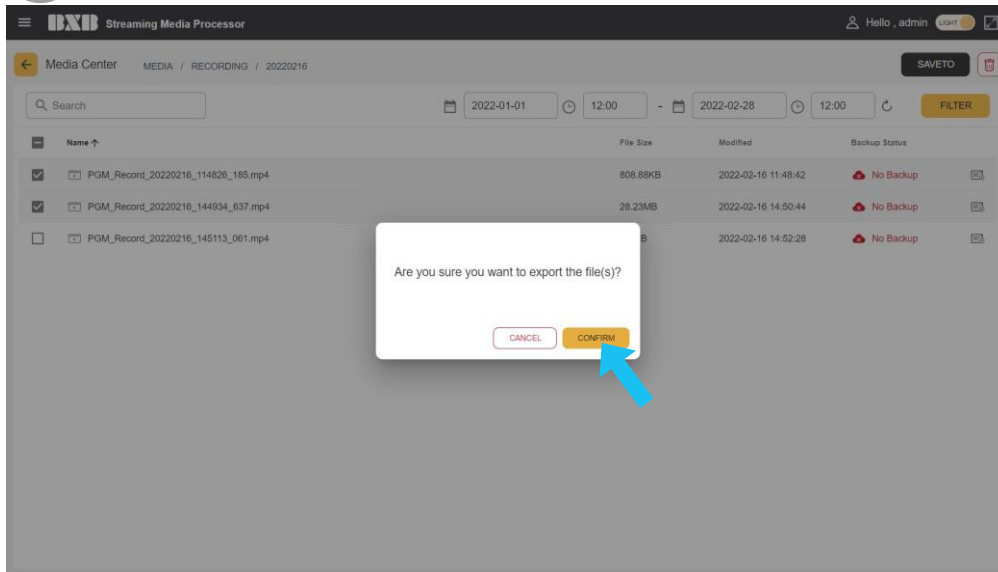


Multi-select files and click "SAVE TO" to save files to the selected storage space.

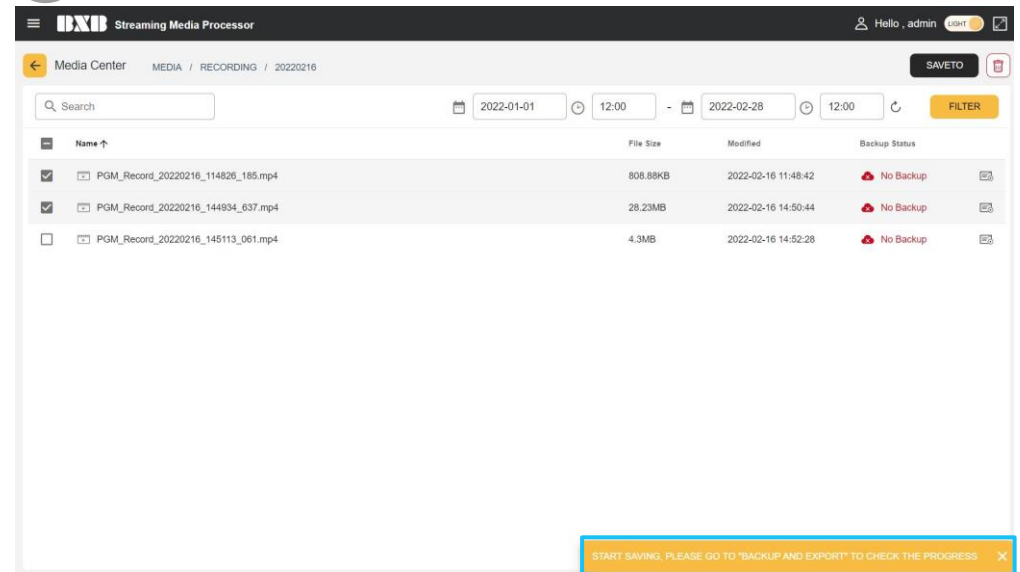
# Web GUI Interface

## Media Center\_Recording Folder

7



8



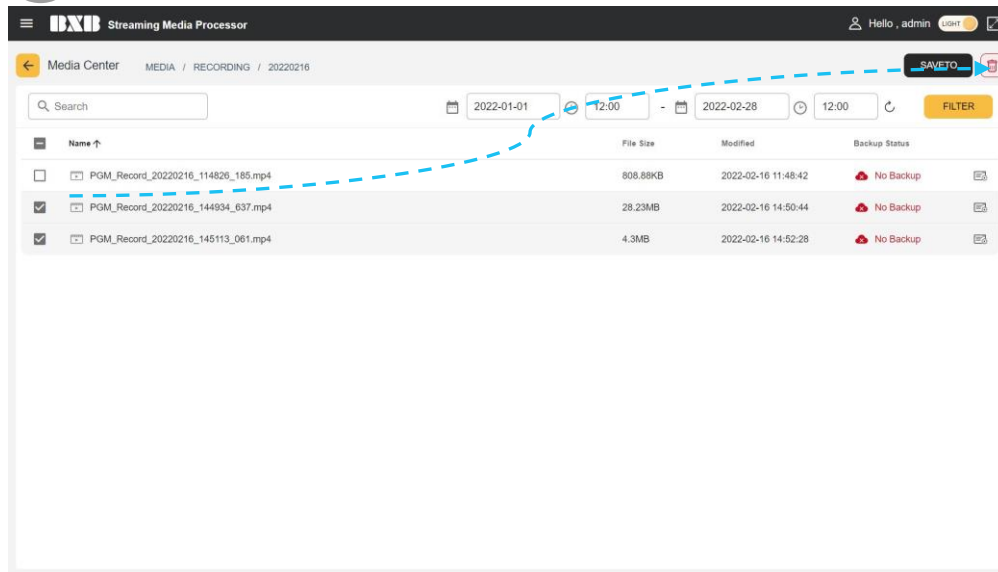
Click "CONFIRM" to allow saving files.

Select the required storage space and then click "SAVE" to save files.

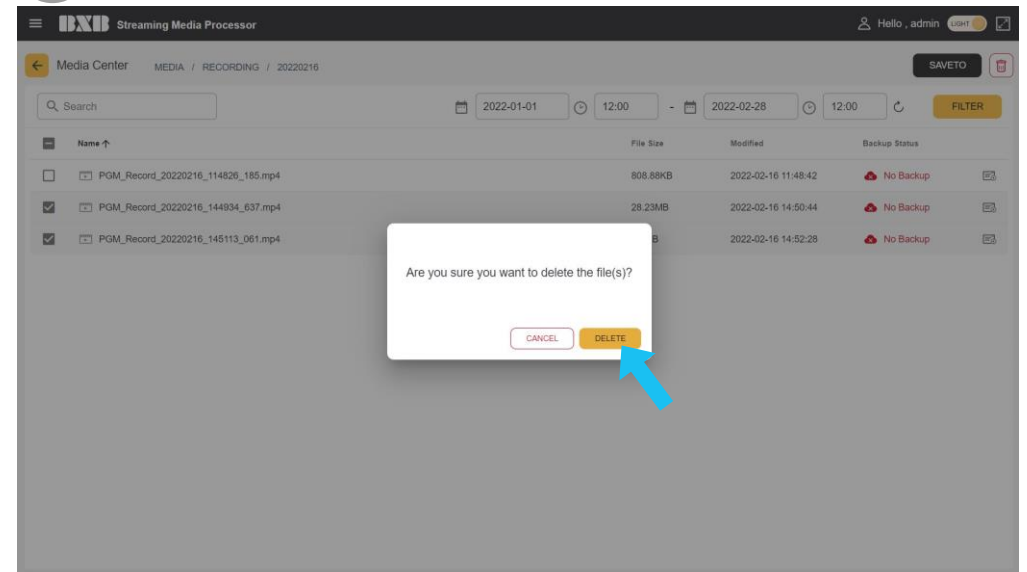
# Web GUI Interface

## Media Center\_Recording Folder

9



10



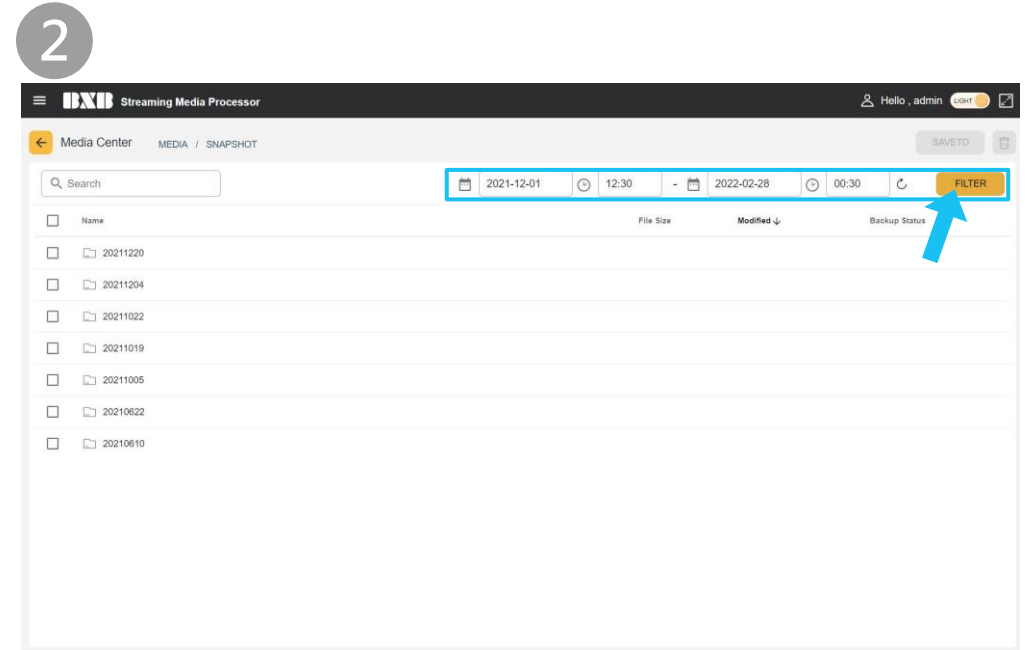
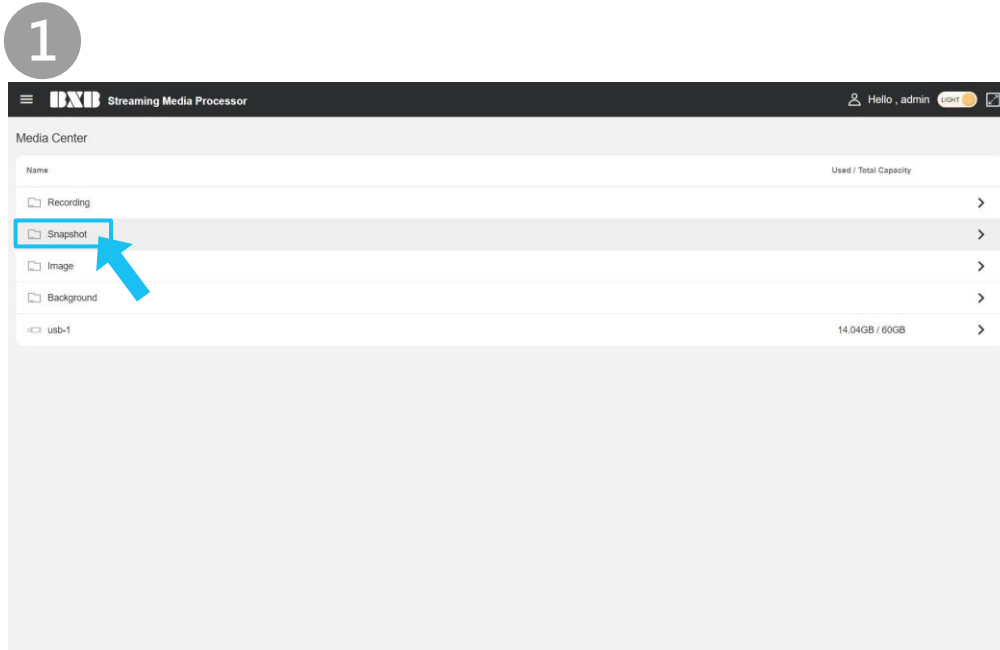
Multi-select files and click "Delete" icon to delete files.

Click "DELETE", the selected files will be deleted from that storage space.

# Web GUI Interface

## Media Center\_Snapshot Folder

When clicking “Snapshot” function to capture screen, the snapshot file will be saved in the snapshot folder of the internal storage space. You can view, save or delete the files.

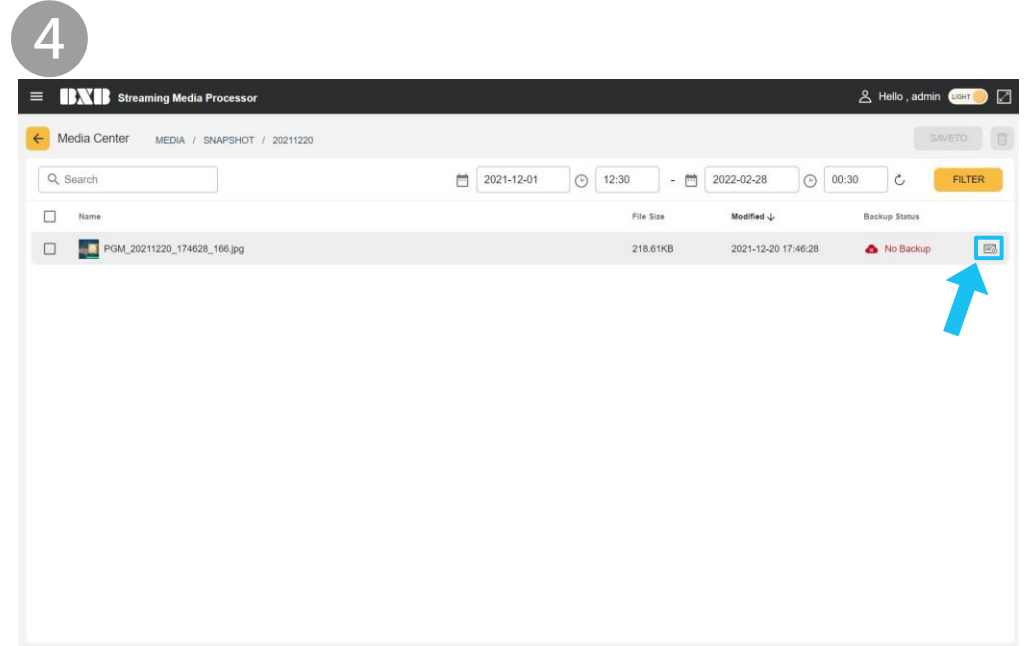
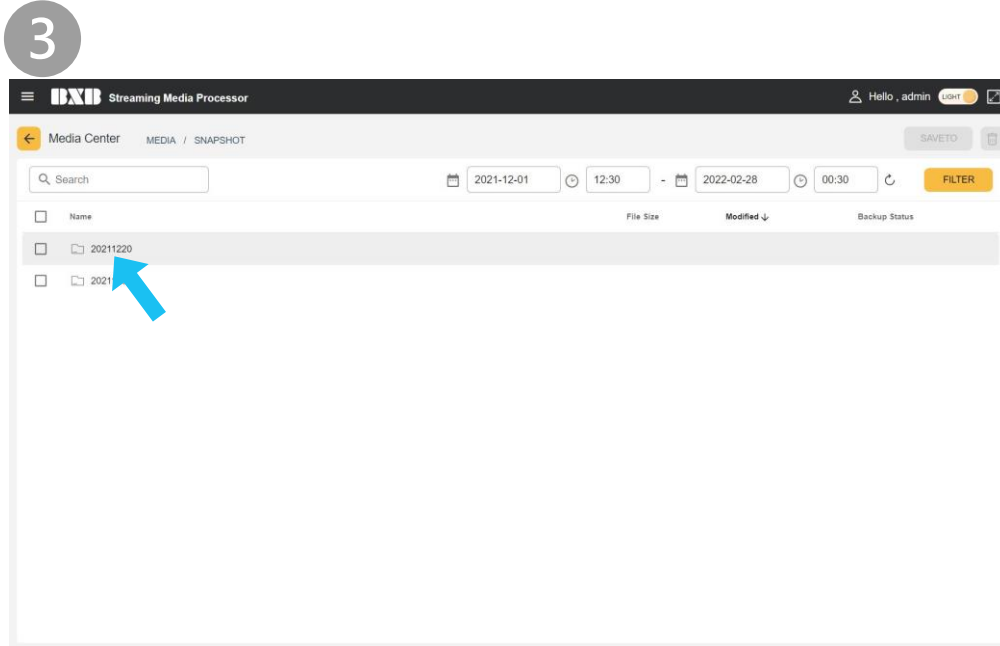


“Snapshot” folder is the storage space of snapshot files.

You can search the file based on date interval.

# Web GUI Interface

## Media Center\_Snapshot Folder



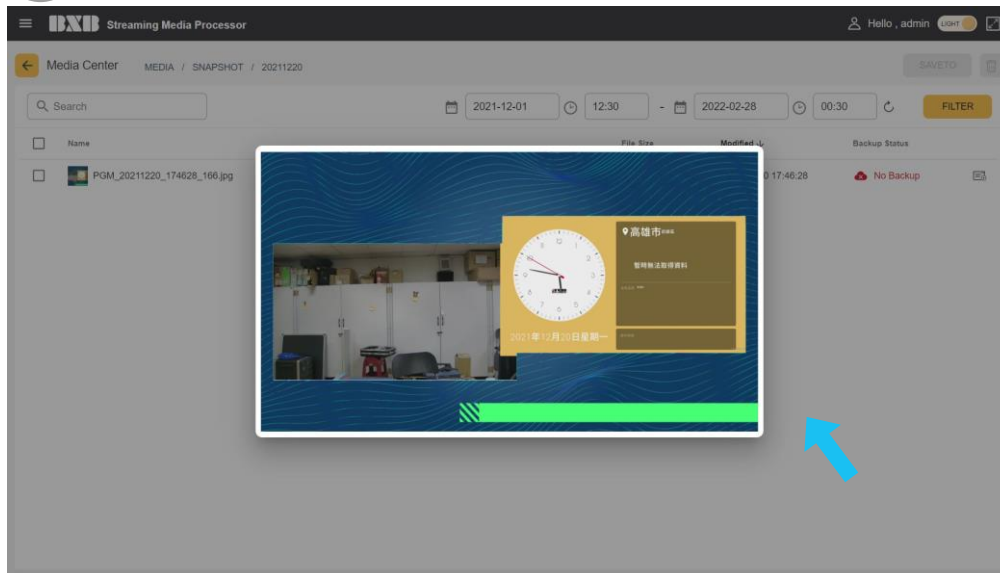
Click the folder name to enter the folder. The folder is named based on the creation date.

Click "Preview" icon to browse that snapshot file.

# Web GUI Interface

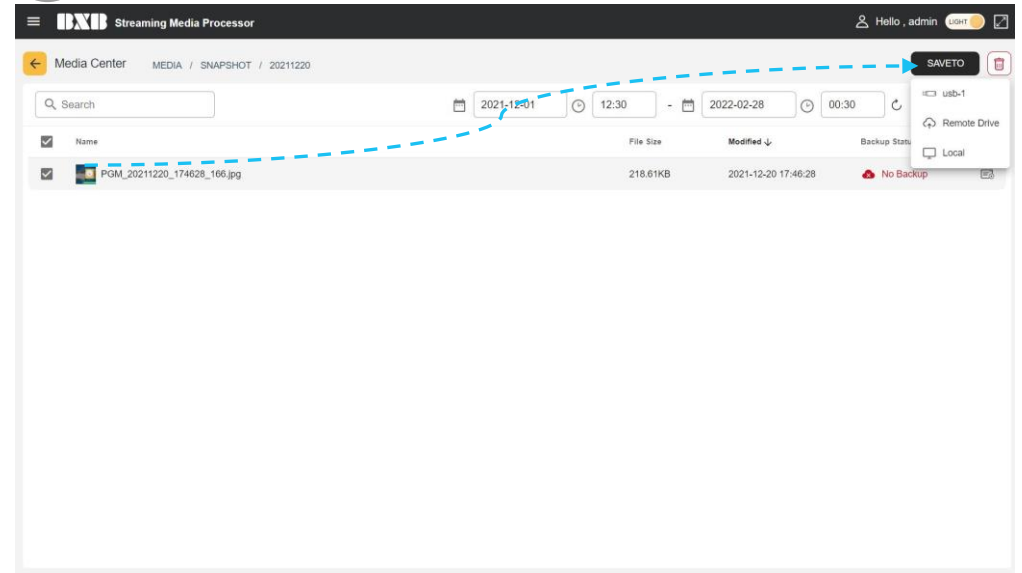
## Media Center\_Snapshot Folder

5



Click on any blank area to close the snapshot browse window.

6

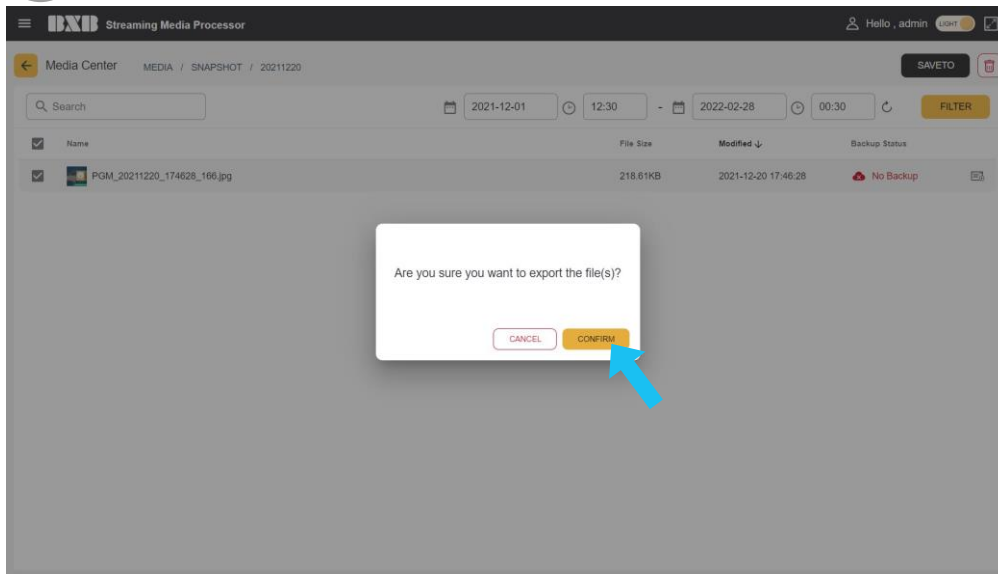


Select files and click "SAVE TO" to save files in the selected storage space.

# Web GUI Interface

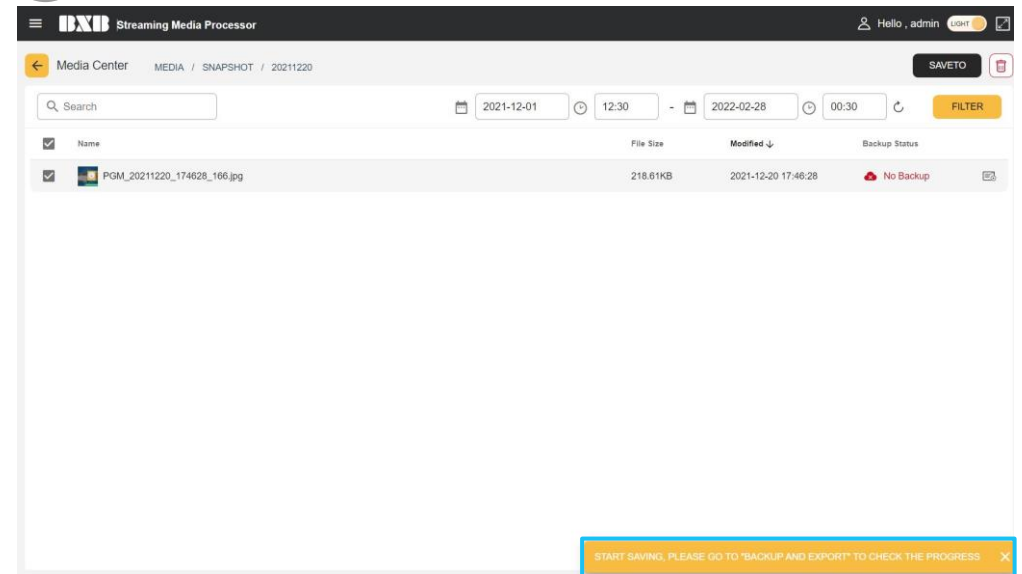
## Media Center\_Snapshot Folder

7



Click "CONFIRM" to allow saving file.

8



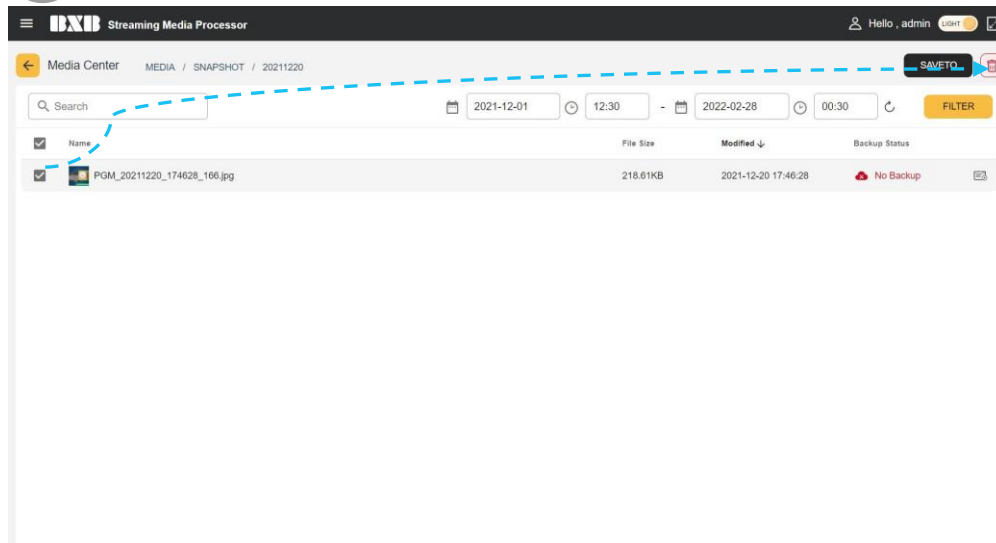
Select the required storage space and then click "SAVE" to save files.



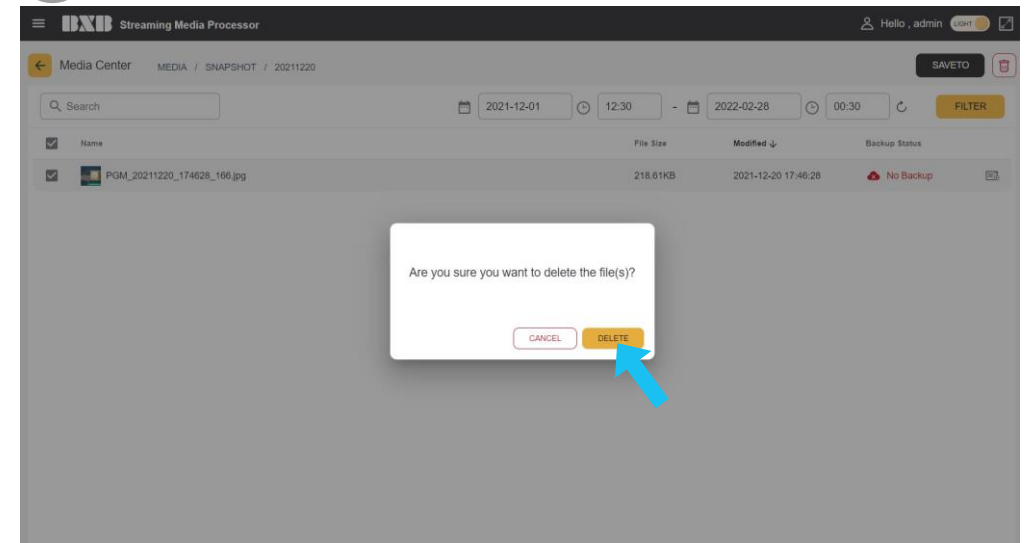
# Web GUI Interface

## Media Center\_Snapshot Folder

9



10



Multi-select files and click "Delete" icon to delete files.

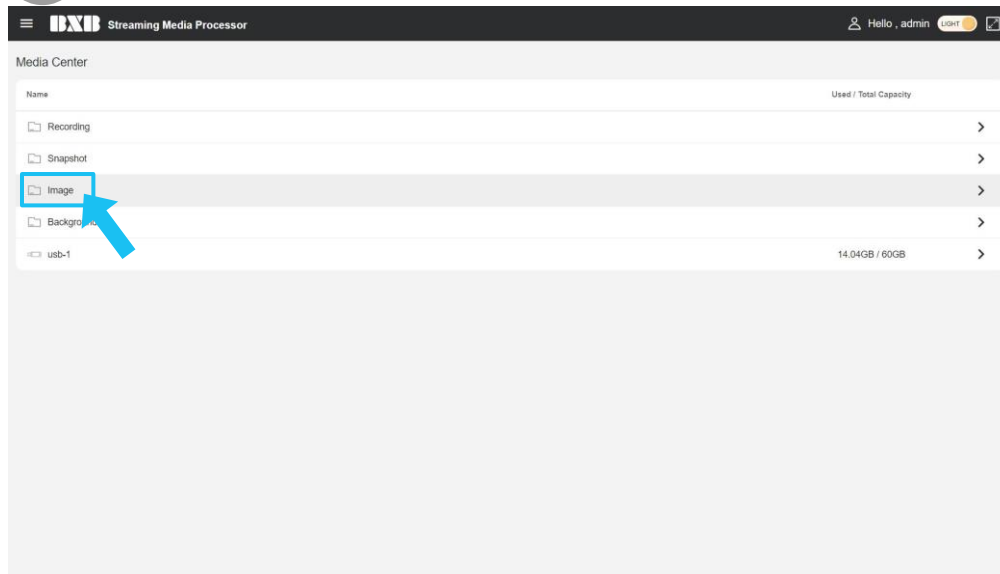
After clicking "DELETE", the selected files will be deleted.

# Web GUI Interface

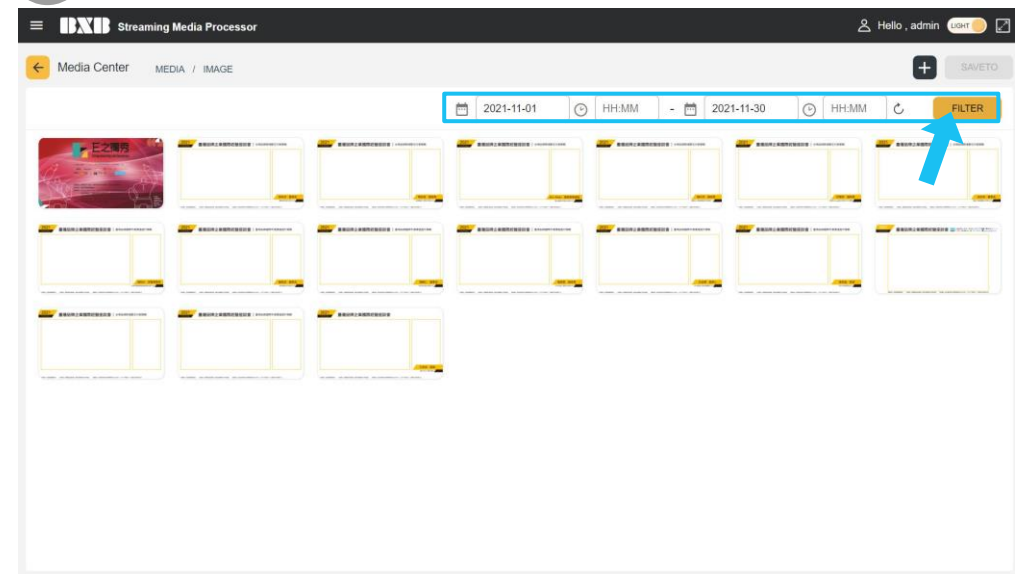
## Media Center\_Image Folder

HDR-731 “Image” folder is the storage space to save images of “Template”. You can add, view or delete image files in the folder.

1



2



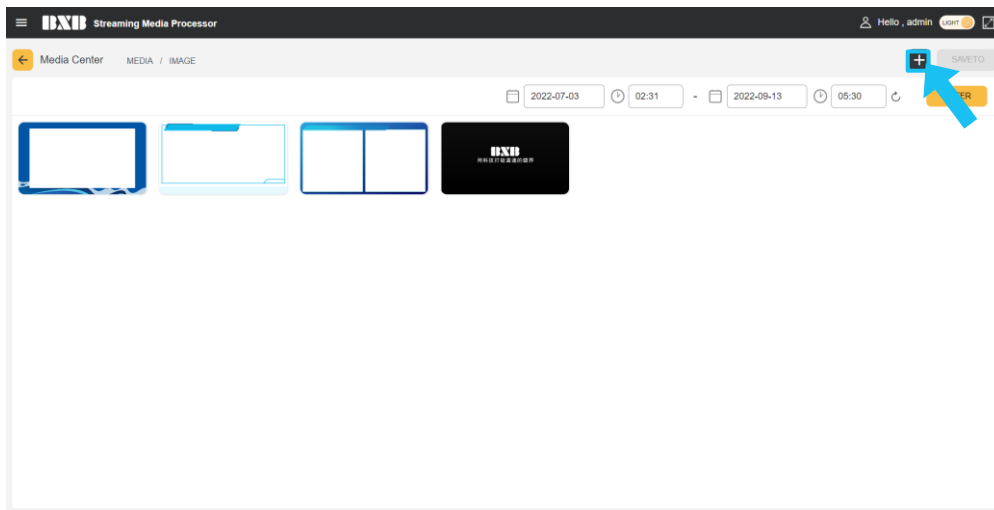
“Image” folder is the storage space for the image files of templates.

You can search the file based on date interval.

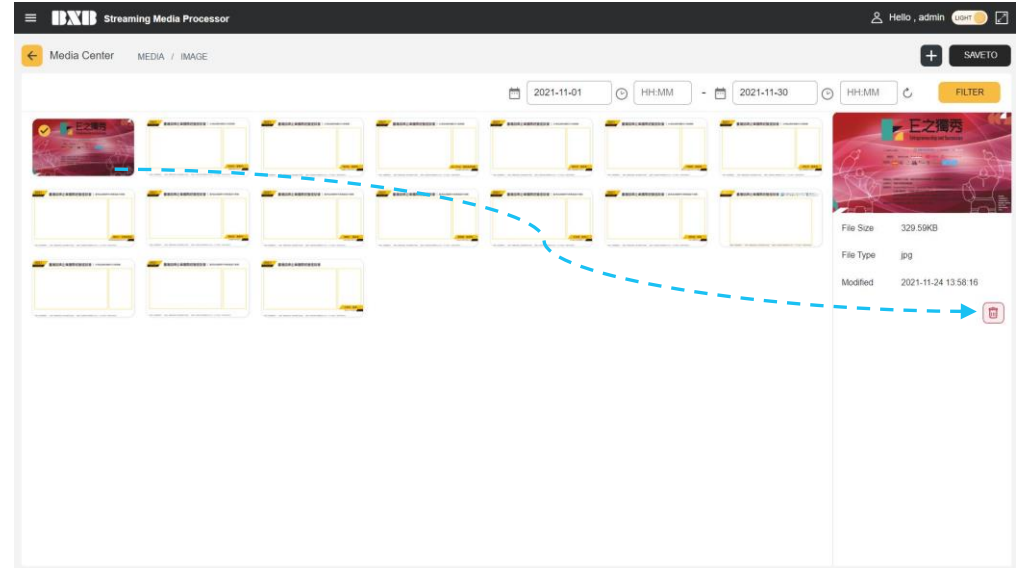
# Web GUI Interface

## Media Center\_Image Folder

3



4



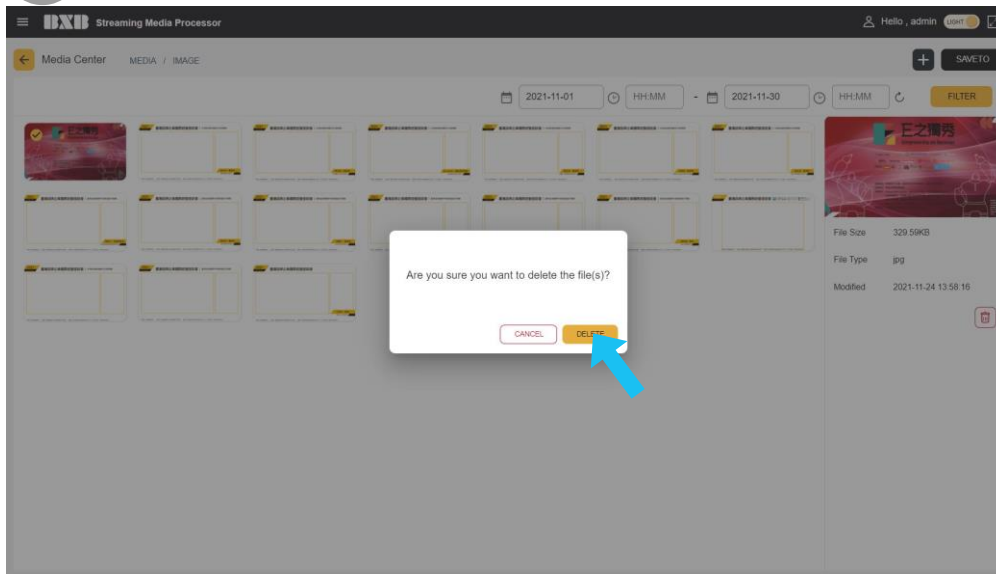
Click “ADD” to add an image file.

Select a file and then click “Delete” icon to delete the file.

# Web GUI Interface

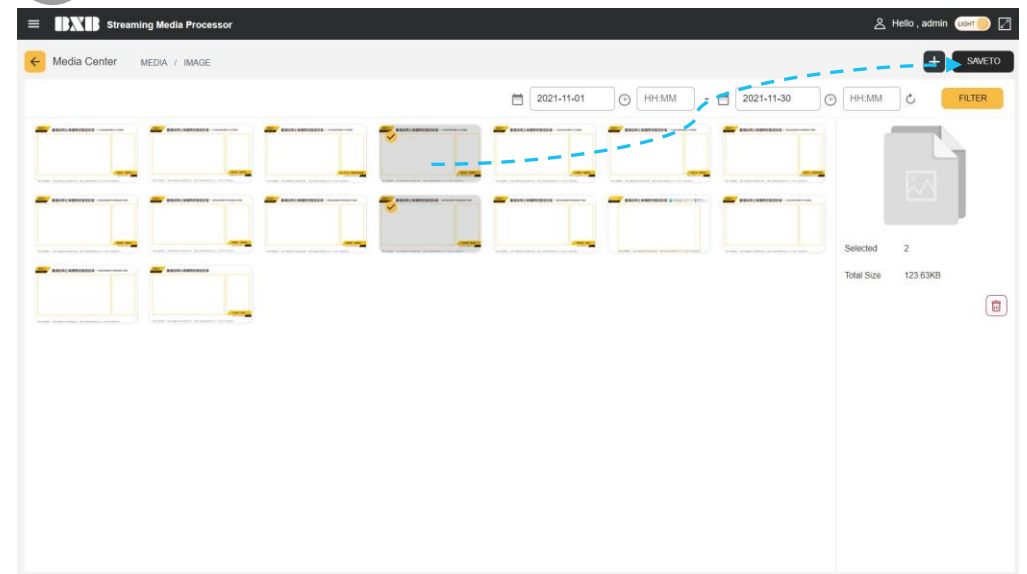
## Media Center\_Image Folder

5



Click “DELETE”, that file will be deleted.

6

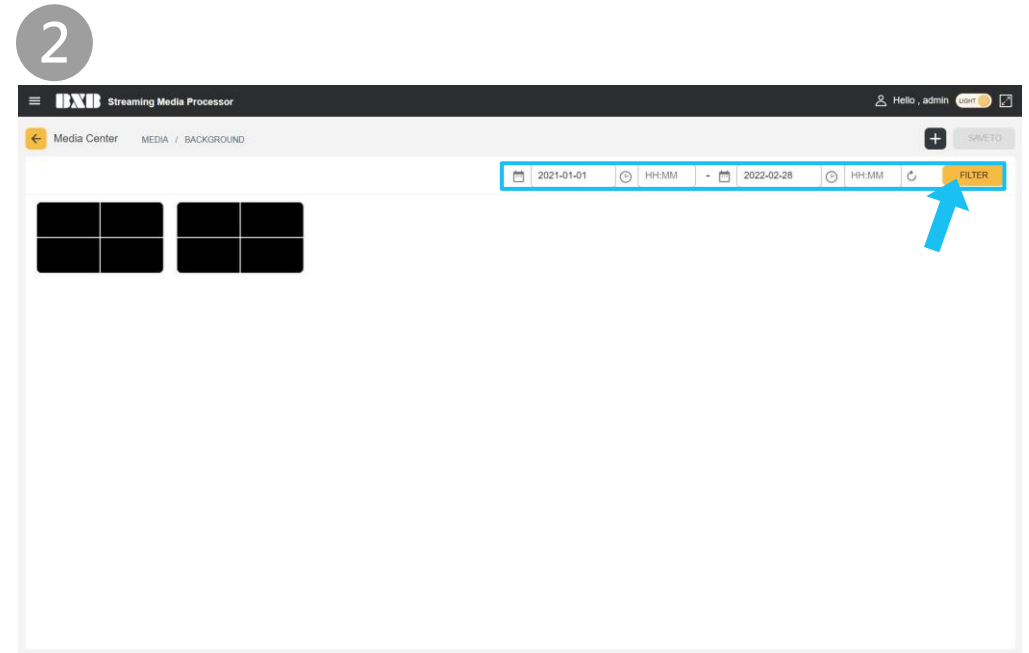
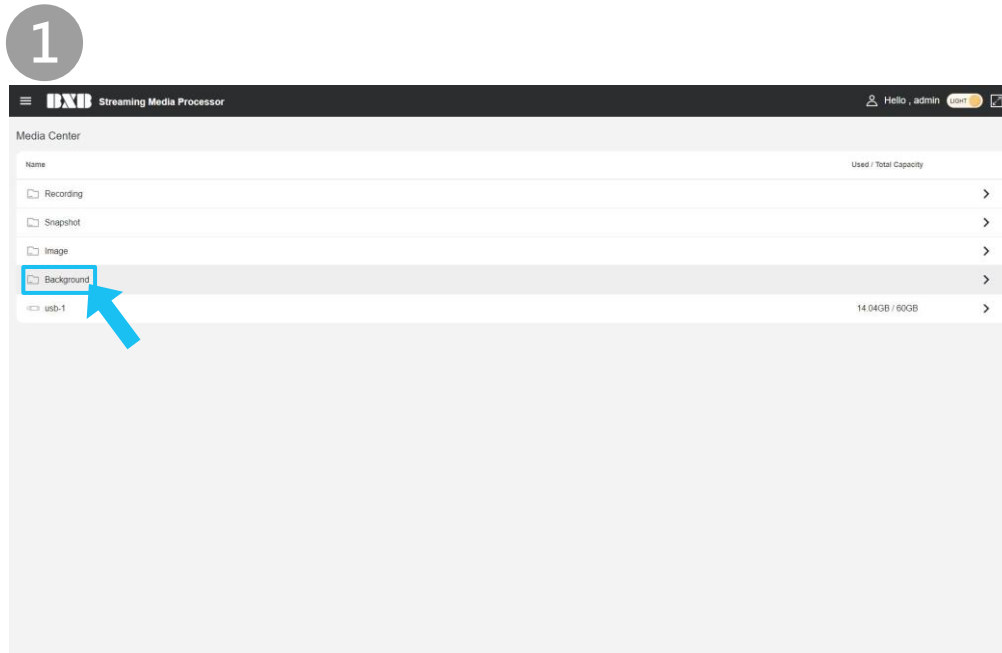


Press and hold the Shift-key on the keyboard to select multiple files. Click “SAVE TO” to save files to the selected storage space.

# Web GUI Interface

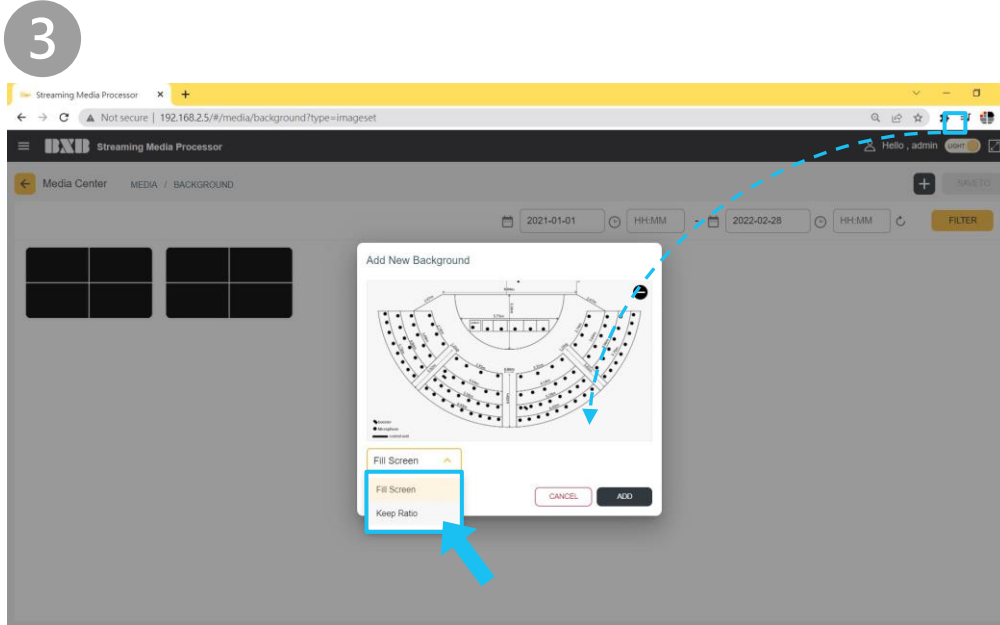
## Media Center\_Background Folder

HDR-731 “Background” folder is the storage space for background graphic files of “Template”. You can add, view or delete background image files in the folder.

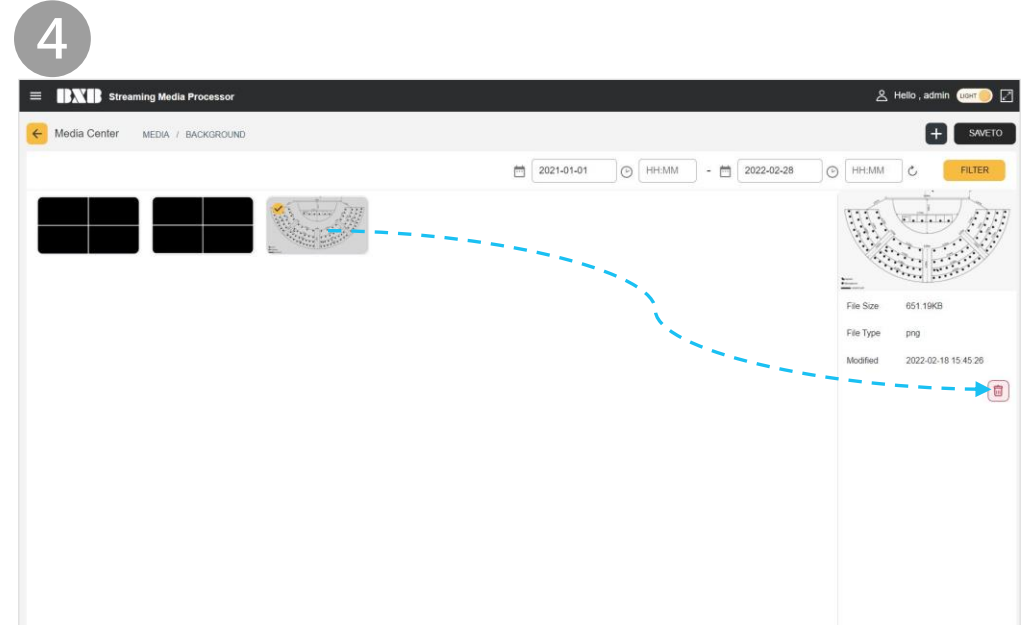


“Background” folder is the storage space for the background graphic files of template.

You can search the file based on date interval.

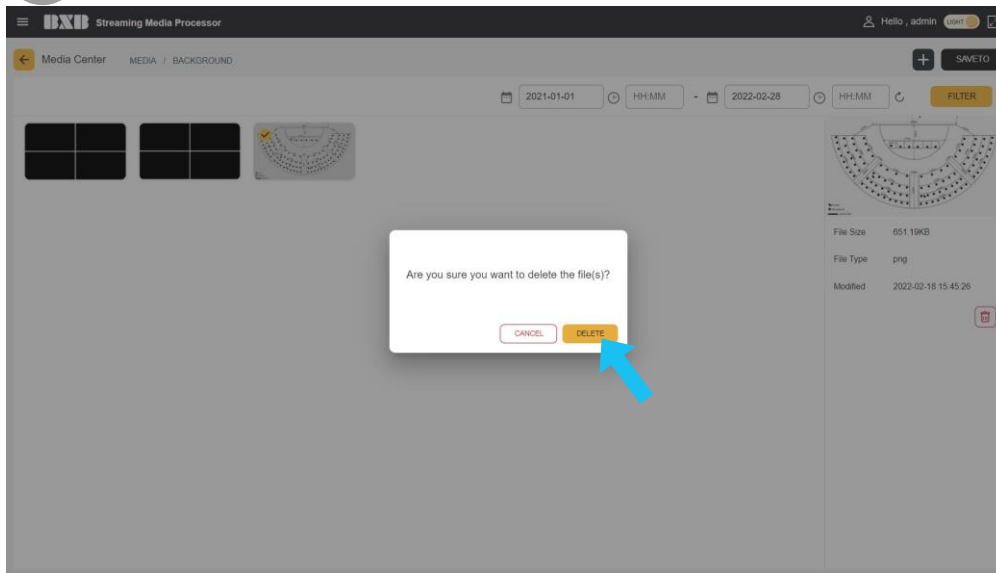


Click “Add” icon to select the required background graphic file. For adding a background, “Fill Screen” or “Keep Ratio” can be set beforehand as the display mode.



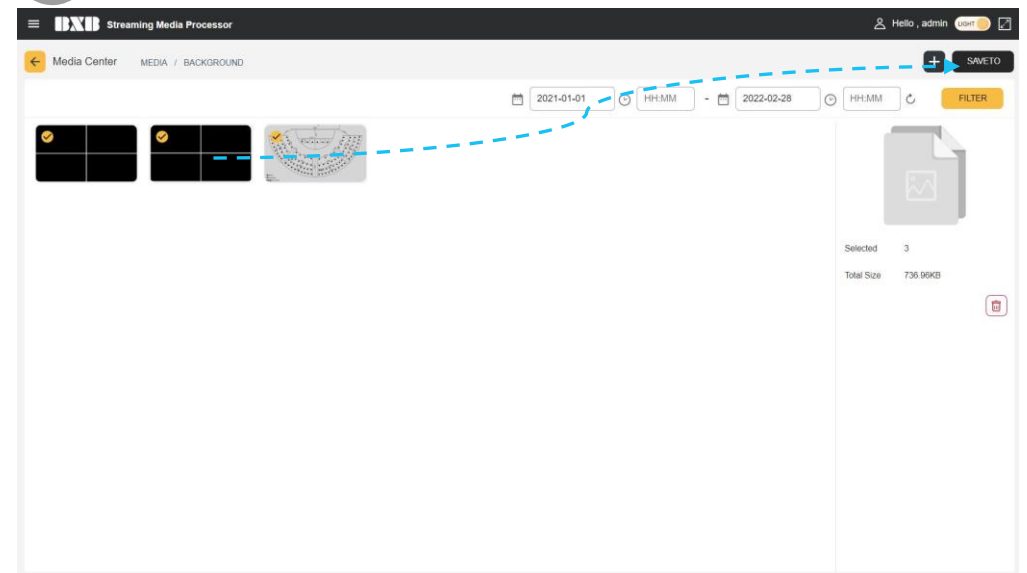
After selecting files, click “Delete” icon to delete the selected files from the folder.

5



Click "DELETE", that file will be deleted.

6



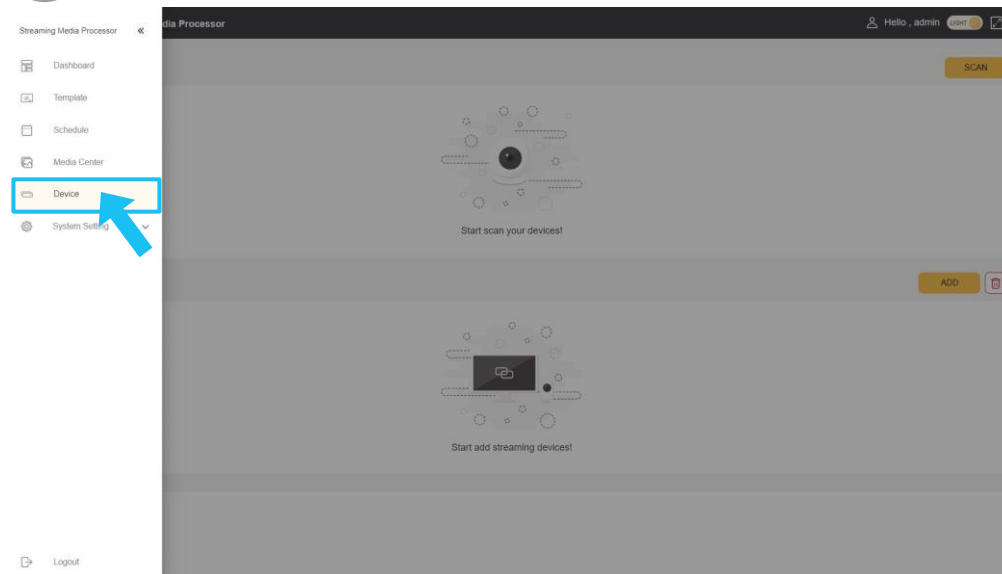
Press and hold the Shift-key of keyboard to select multiple files. Click "Save To" to save files in the selected storage space.

# Web GUI Interface

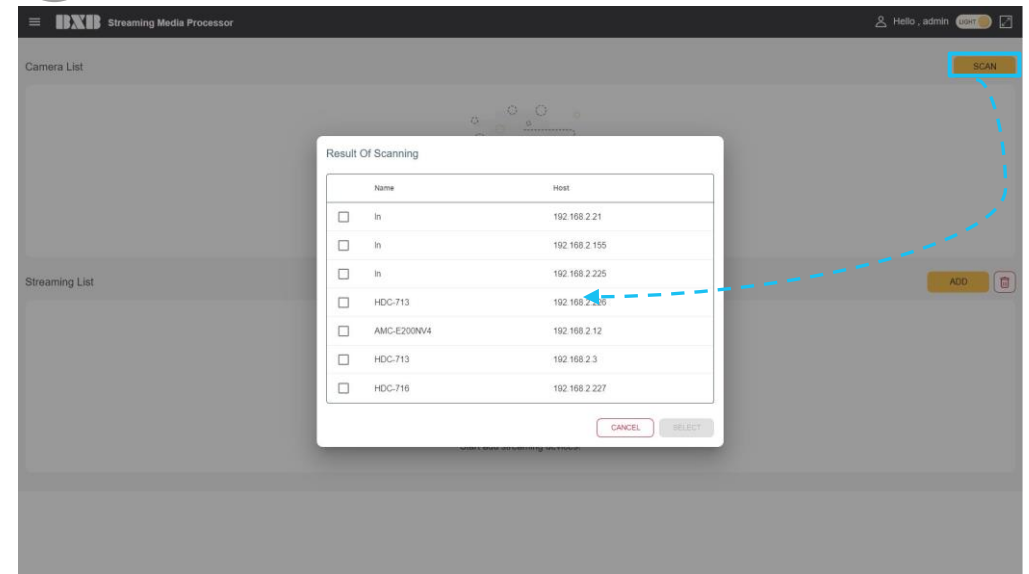
## Device\_Add Camera

You can define related information of camera and streaming equipment in LAN as the signal sources for recording and live-streaming. “Add Camera” function can scan all BXB IP cameras of the same network and apply them as the video sources.

1



2



Click “Device” to enter the setting page.

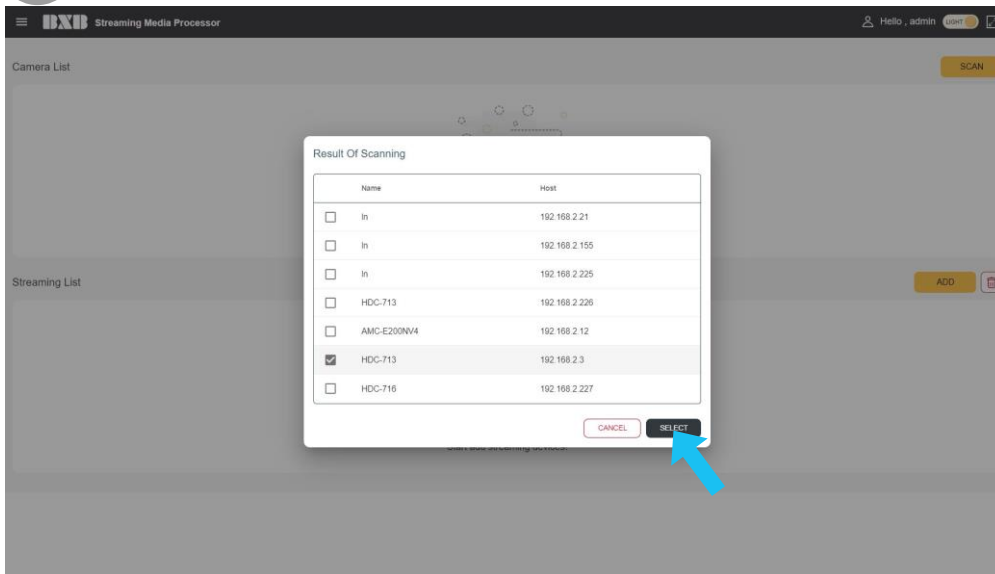
Click “SCAN” to detect all BXB cameras in LAN. Check the required camera to be set.



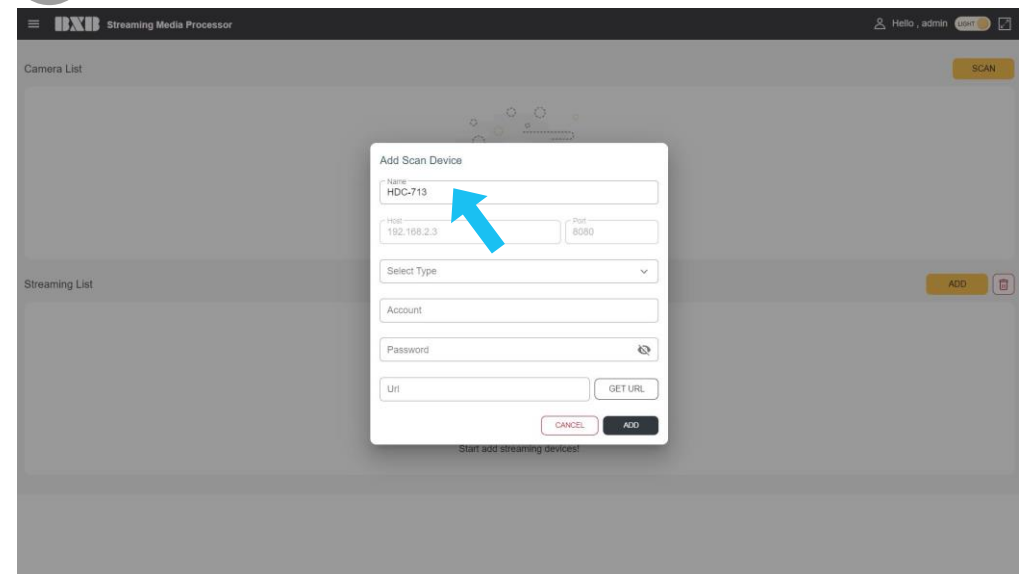
# Web GUI Interface

## Device\_Add Camera

3



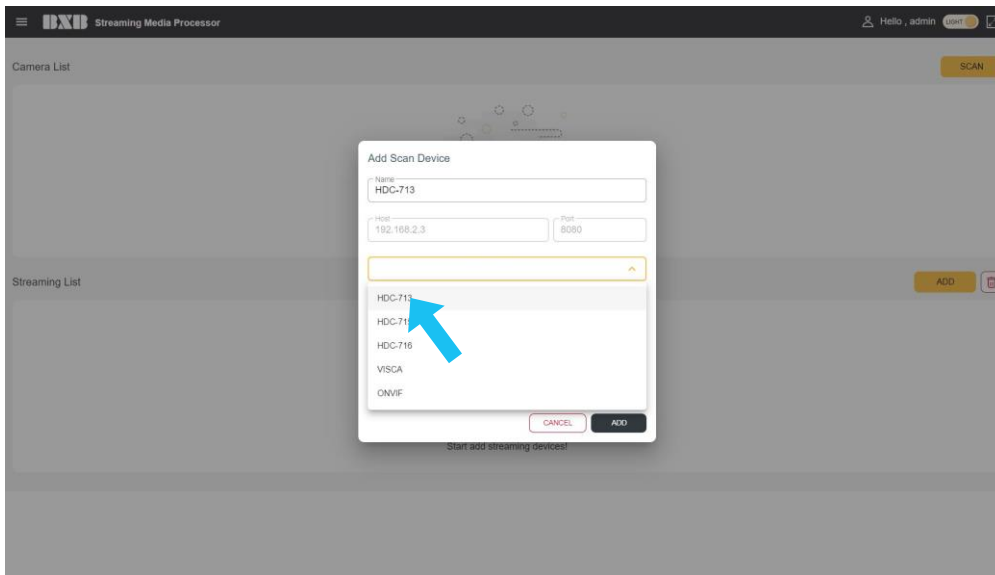
4



Click "SELECT" to enter the setting page.

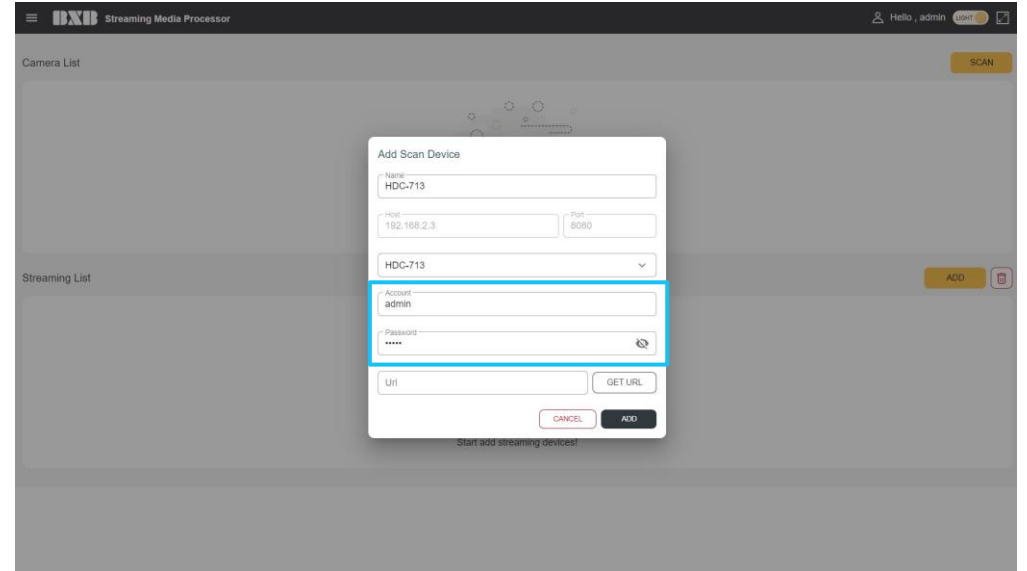
Enter the display name of that camera.

5



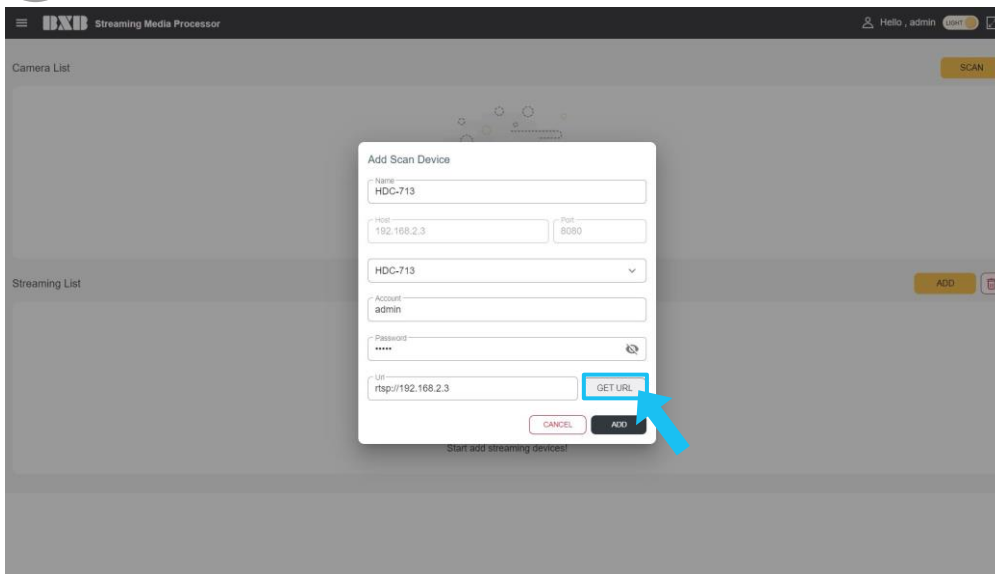
Select the corresponding camera model name.

6

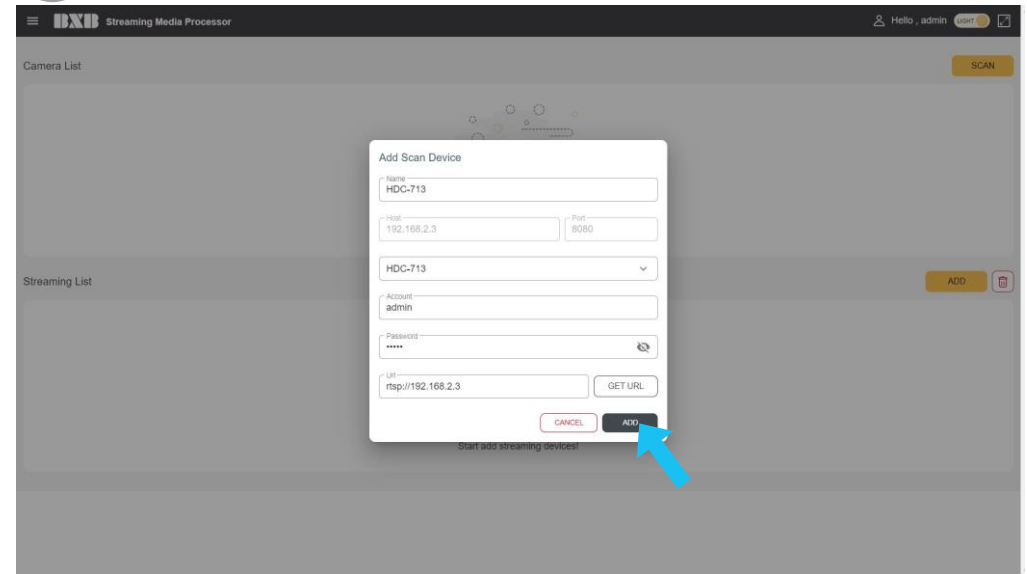


Enter the ID and password to log in.

7



8



Click “GET URL” to test the communication and get the related information. If the information cannot be got, please check if ID & password are valid and if the camera status is normal.

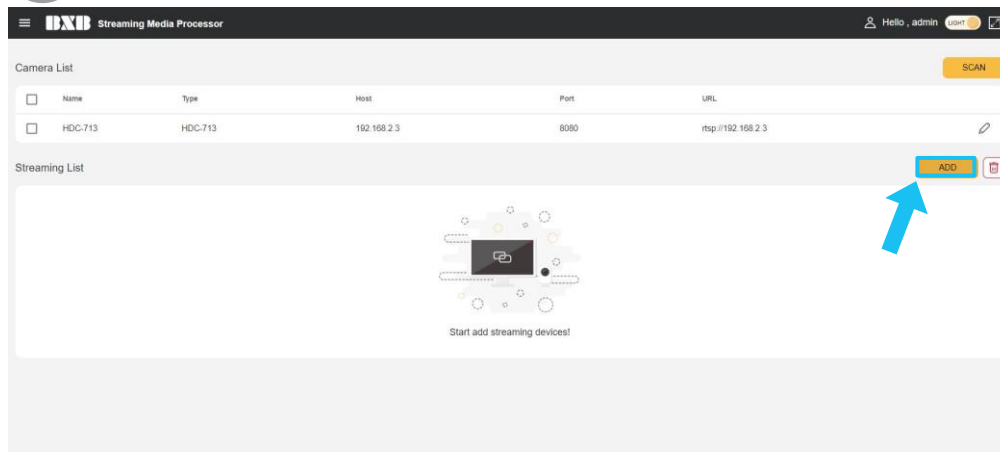
Click “ADD” to complete camera setting.

# Web GUI Interface

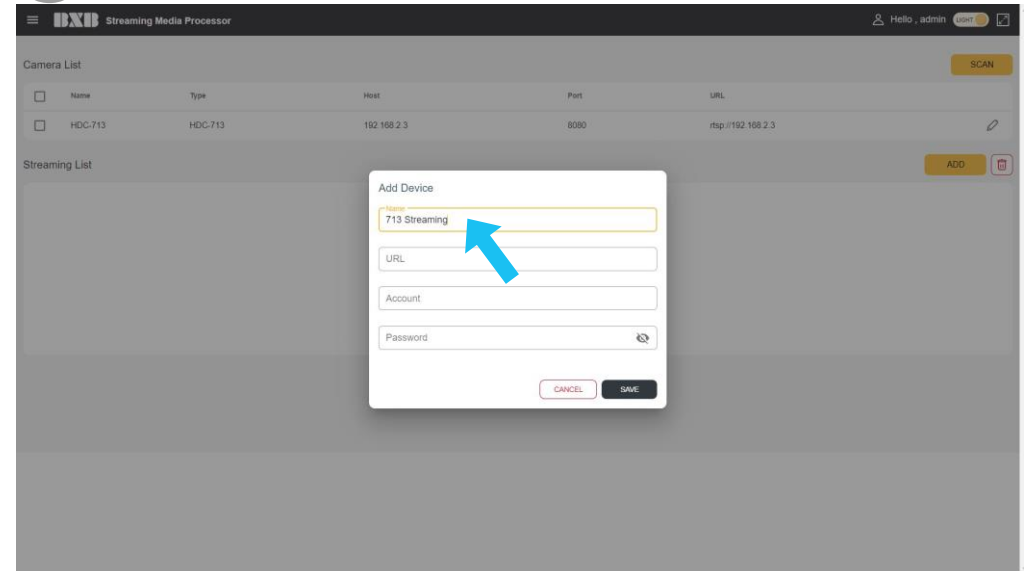
## Device\_Add Streaming Device

In addition to use BXB camera as the video source to perform live-streaming, you can also use camera of other brands via “Add Streaming Device”.

1



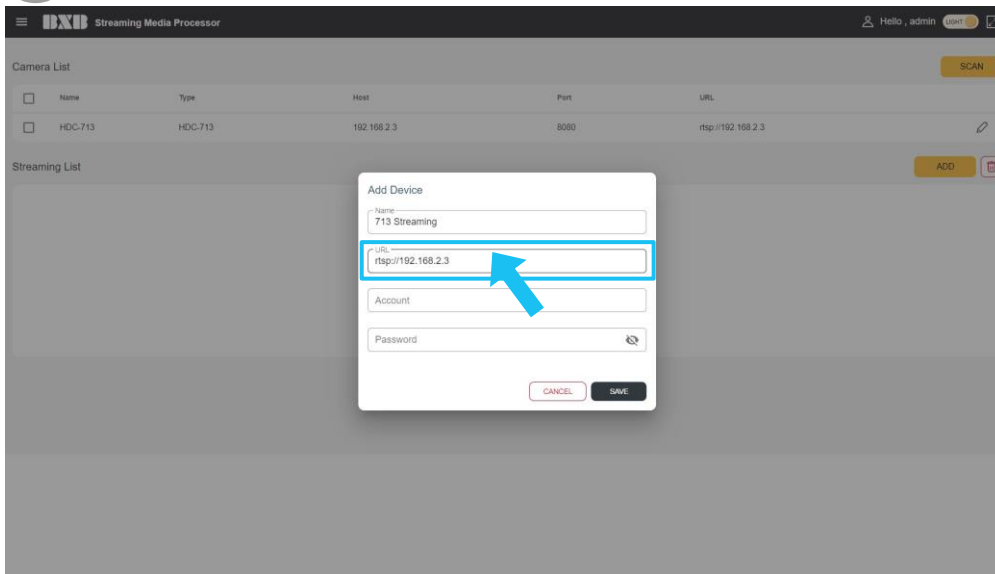
2



Click “ADD” to enter the page to add a device.

Enter the name of the streaming setting.

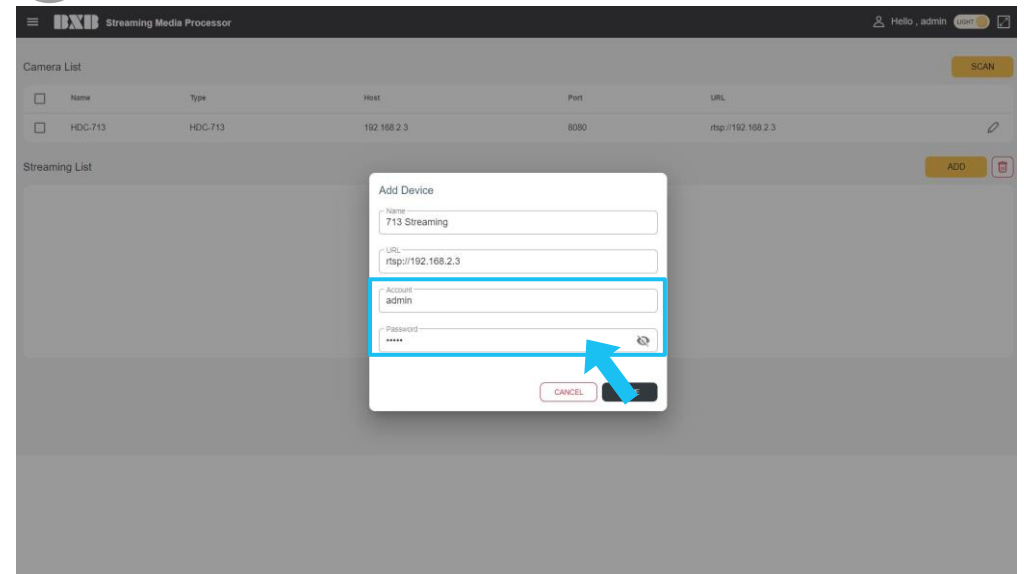
3



The screenshot shows the 'Streaming Media Processor' web interface. A modal dialog titled 'Add Device' is open. The 'Name' field contains '713 Streaming'. The 'URL' field contains 'rtsp://192.168.2.3' and is highlighted with a blue box and a blue arrow. The 'Account' and 'Password' fields are empty. The 'CANCEL' and 'SAVE' buttons are at the bottom.

Name	Type	Host	Port	URL
<input type="checkbox"/>	HDC-713	192.168.2.3	8080	rtsp://192.168.2.3

4



The screenshot shows the 'Streaming Media Processor' web interface. A modal dialog titled 'Add Device' is open. The 'Name' field contains '713 Streaming'. The 'URL' field contains 'rtsp://192.168.2.3'. The 'Account' field contains 'admin' and the 'Password' field contains '\*\*\*\*\*'. The 'Account' and 'Password' fields are highlighted with a blue box and a blue arrow. The 'CANCEL' and 'SAVE' buttons are at the bottom.

Name	Type	Host	Port	URL
<input type="checkbox"/>	HDC-713	192.168.2.3	8080	rtsp://192.168.2.3

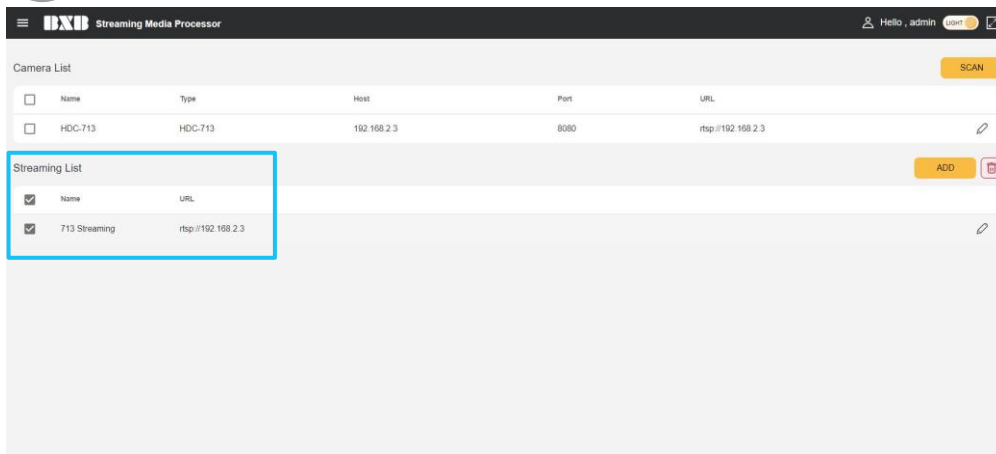
Enter the URL (IP address) of the streaming device.

Enter the ID & password to complete adding the device.

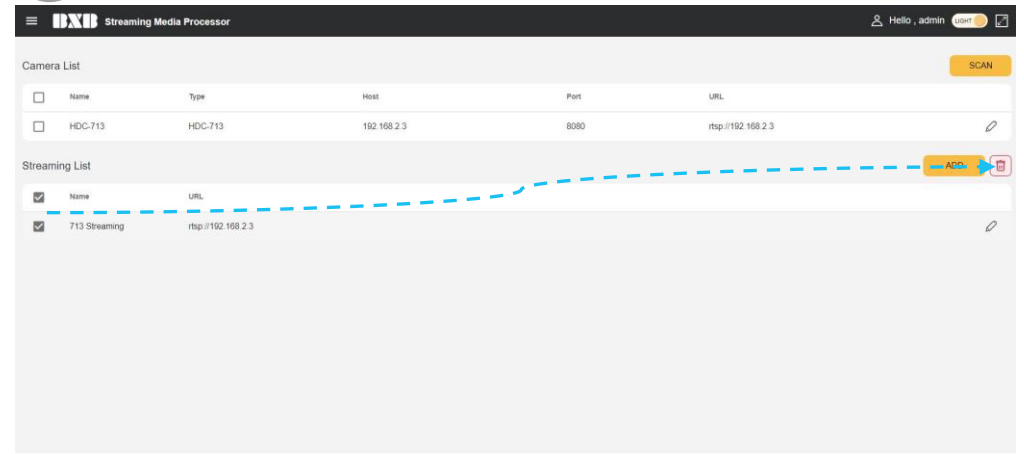
# Web GUI Interface

## Device\_Add Streaming Device

5



6



After completing adding, the device will be shown in the Streaming List which can be selected as the video source.

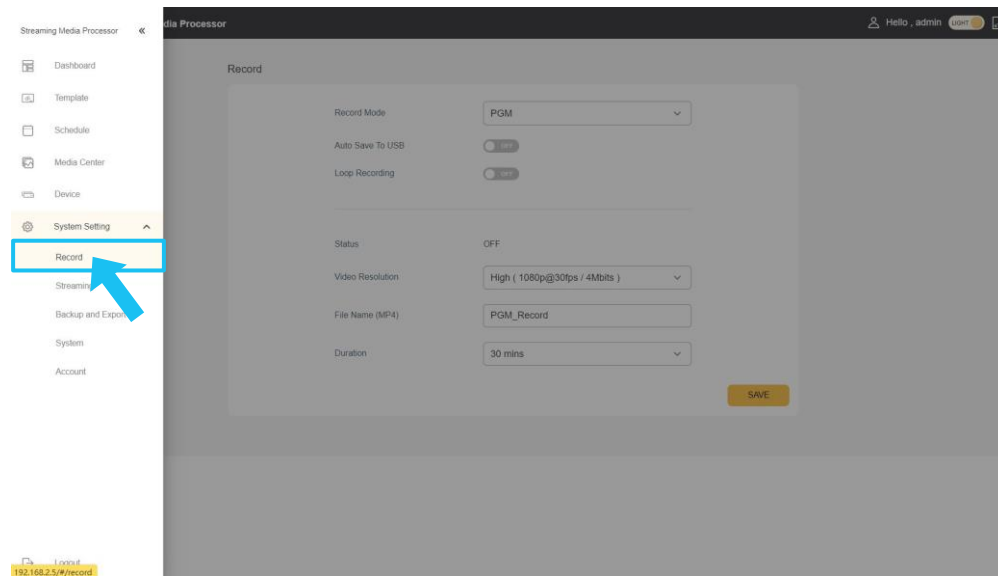
Select a device and click “Delete” icon to delete the device.

# Web GUI Interface

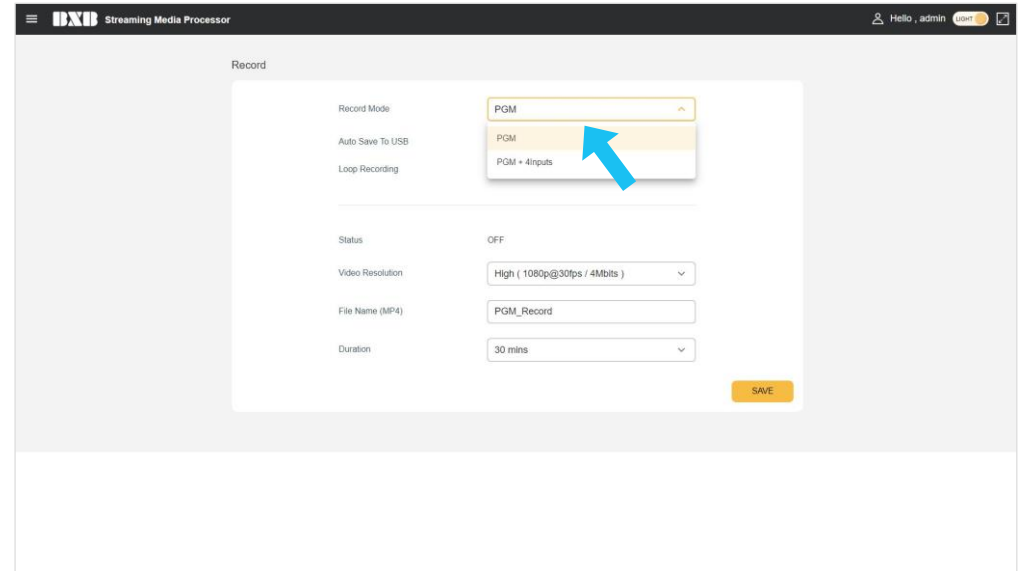
## System Setting\_Recording

You can configure the recording mode, recording resolution, and recording time length.

1



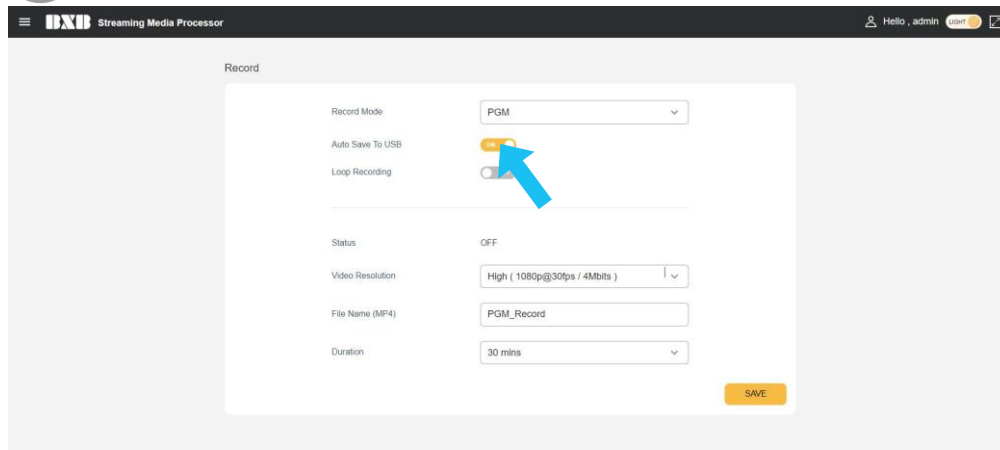
2



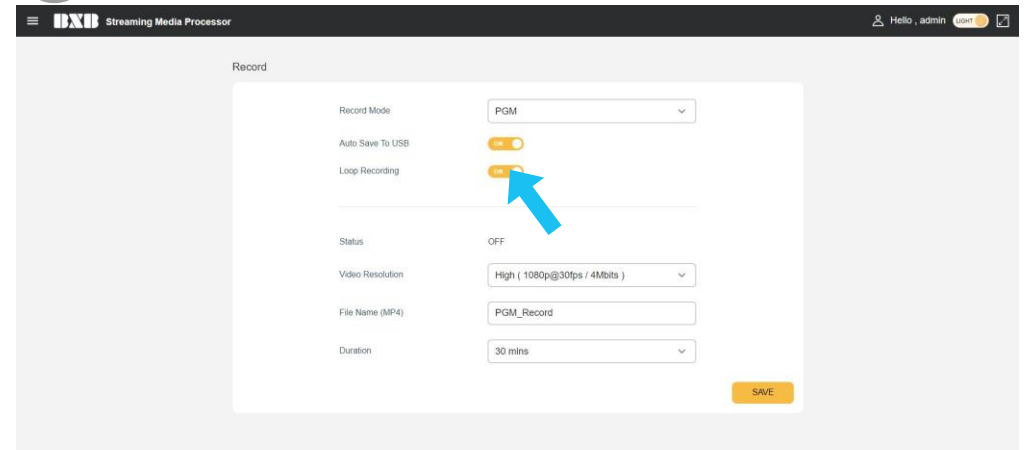
Click “Record” to enter the setting page.

Under “Record Mode”, there are “PGM” or “PGM+4 Inputs” available for selection. If the recording mode “PGM+4 Inputs” is selected, it will not be able to perform live-streaming simultaneously.

3



4



When “Auto Save To USB” is activated, the created recording files will be saved in the internal storage space of HDR-731 and the external USB 3.0 device.

※ Please use USB3.0 storage devices to avoid abnormal file saving.

When the storage space is under 20%, a yellow icon will show at the right upper corner of Dashboard for indication. If “Loop Recording” is activated, the oldest file will be deleted as a new recording file is created. If “Loop Recording” is not activated and the remaining recording space is left only 5%, it will be indicated with red icon and the recording will be disabled simultaneously.



5

Record

Record Mode: PGM

Auto Save To USB: ON

Loop Recording: ON

Status: OFF

Video Resolution: High ( 1080p@30fps / 4Mbps )

File Name (MP4): PGM\_Record

Duration: 30 mins

SAVE

6

Record

Record Mode: PGM

Auto Save To USB: ON

Loop Recording: ON

Status: OFF

Video Resolution: High ( 1080p@30fps / 4Mbps )

File Name (MP4): PGM\_Record

Duration: 30 mins

SAVE

“Status” indicates if recording is in progress at this moment. Status “ON” indicates that recording is in progress and the related settings cannot be changed at this moment; status “OFF” indicates there is no recording in progress and the related settings can be modified.

Define the recording resolution. The higher the resolution is, the larger storage space for saving the created recording file will be needed.

7

Streaming Media Processor Hello, admin

Record

Record Mode: PGM

Auto Save To USB: ON

Loop Recording: ON

Status: OFF

Video Resolution: Low ( 720p@30fps / 1Mbps )

File Name (MP4): PGM\_

Duration: 30 mins

SAVE

8

Streaming Media Processor Hello, admin

Record

Record Mode: PGM

Auto Save To USB: ON

Loop Recording: ON

Status: OFF

Video Resolution: Low ( 720p@30fps / 1Mbps )

File Name (MP4): PGM\_

Duration: 30 mins

SAVE

Name the created recording file.

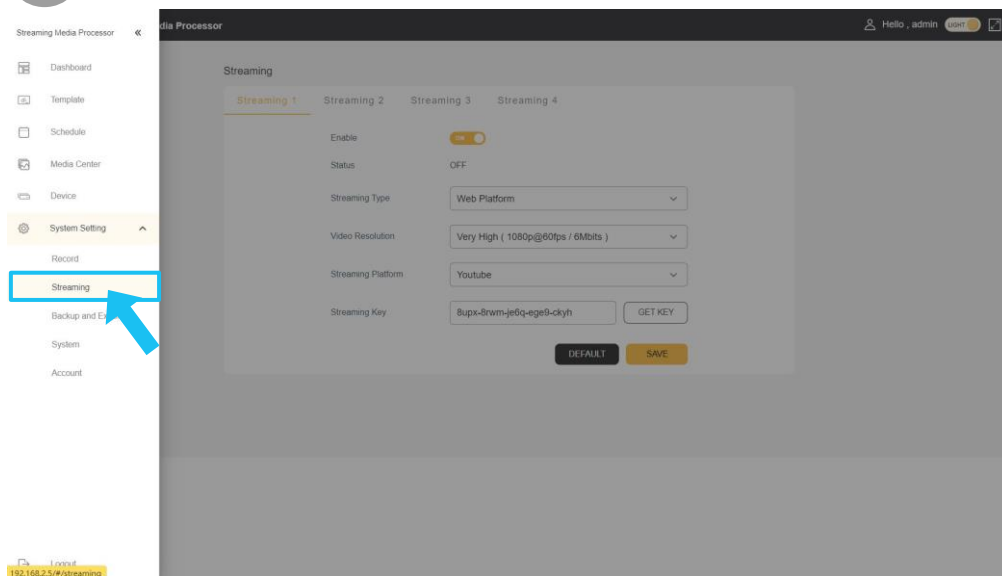
Configure the recording duration and save the setting.  
When the recording time reaches the limitation length, the recording file will be created automatically.

# Web GUI Interface

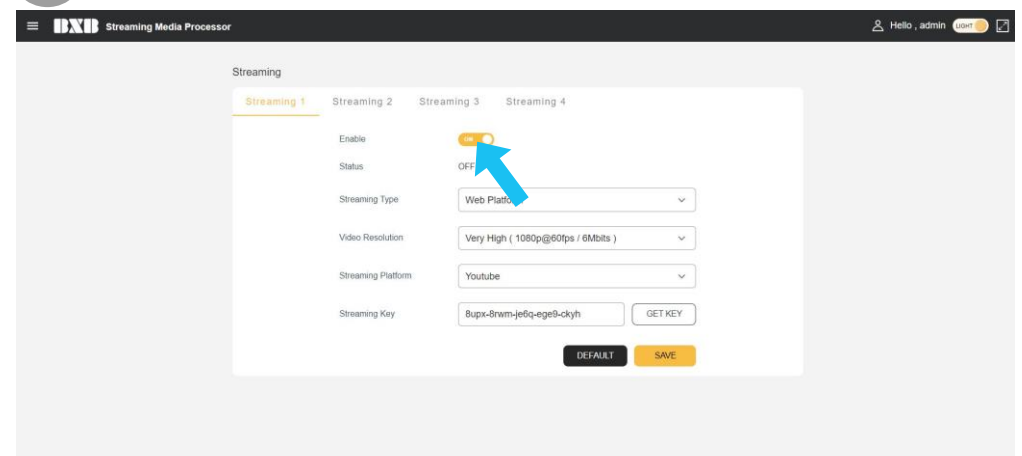
## System Setting\_Streaming\_HLS

You can set PGM streaming to the platforms such as Youtube, Facebook, etc. After HLS streaming mode is set, the streaming can be watched via Chrome and VLC player.

1



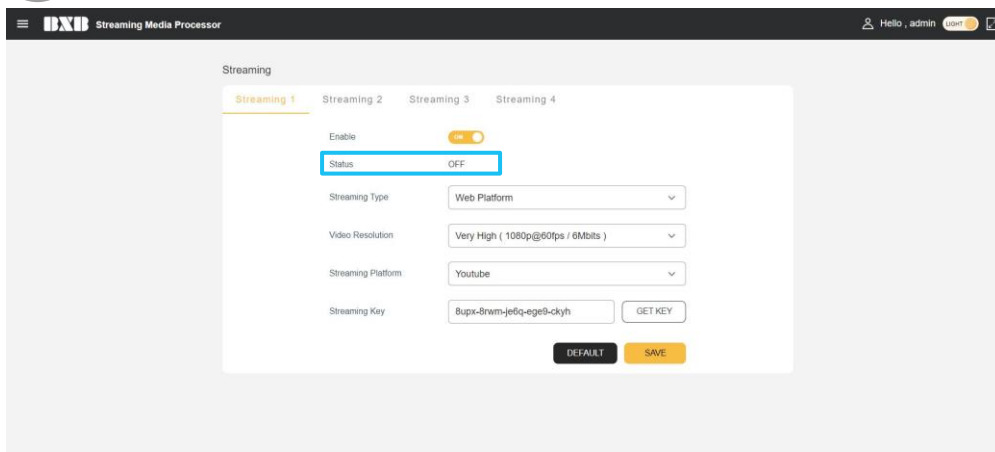
2



Click "Streaming" to enter the setting page.

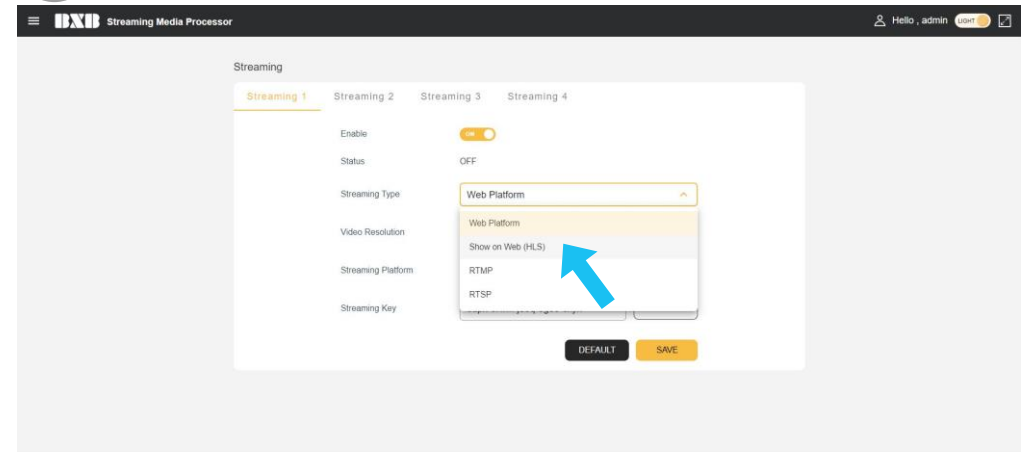
When you activate streaming and click "LIVE" icon on Dashboard, HDR-731 will start live-streaming.

3



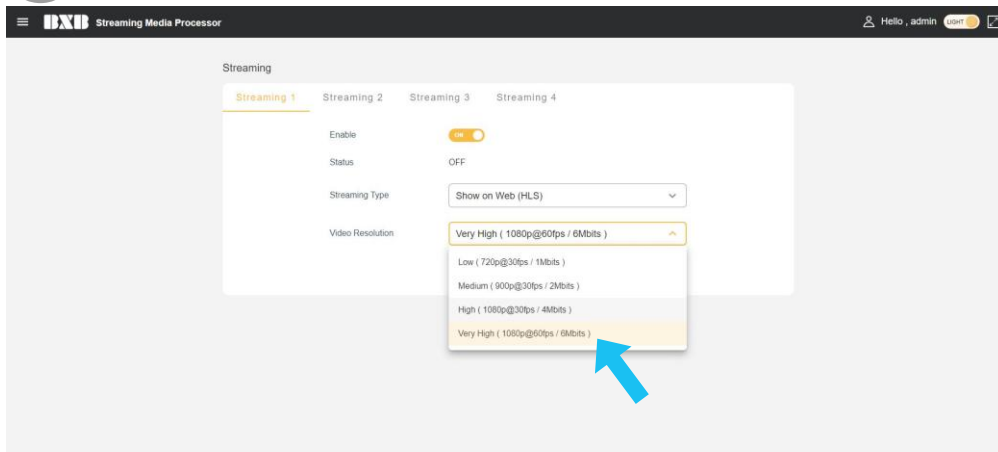
”Status” indicates if streaming is in progress at this moment. Status “ON” indicates streaming is in progress and the related settings cannot be changed at this moment; status “OFF” indicates there is no streaming in progress and the related settings can be modified.

4

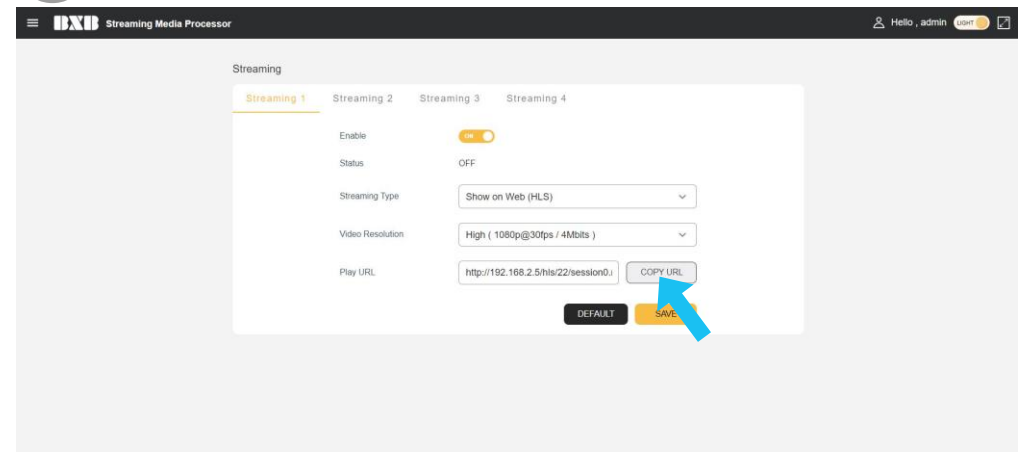


Select a streaming type. In this example, HLS streaming is selected.

5



6



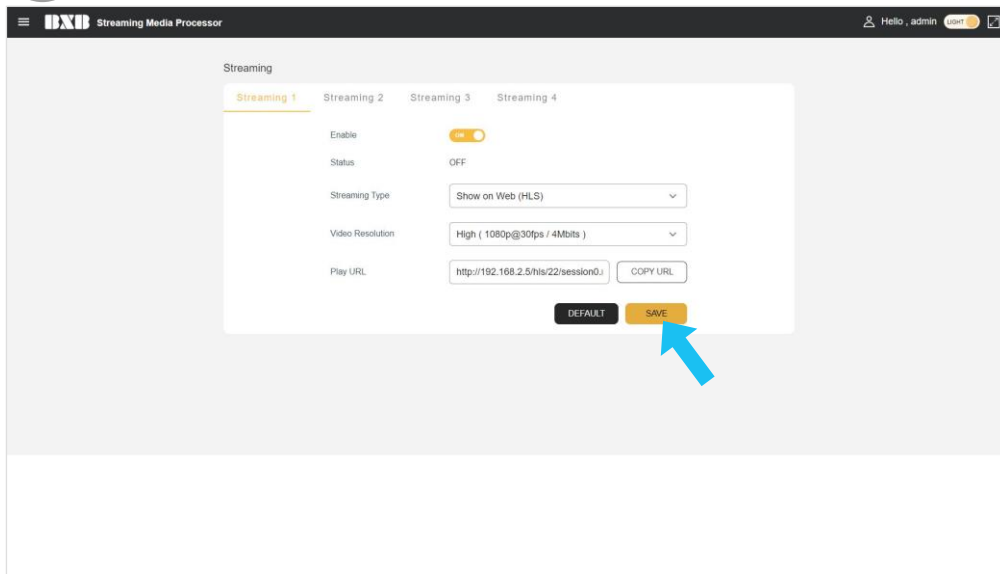
Select streaming output resolution. The higher the resolution is, the higher network bandwidth is needed. Please ensure the bandwidth is enough for streaming.

Click "COPY URL" to copy HLS streaming link address and then paste it to the devices that viewers use to watch.

# Web GUI Interface

## System Setting\_Streaming\_HLS

7



Click "SAVE" to complete setting.

8

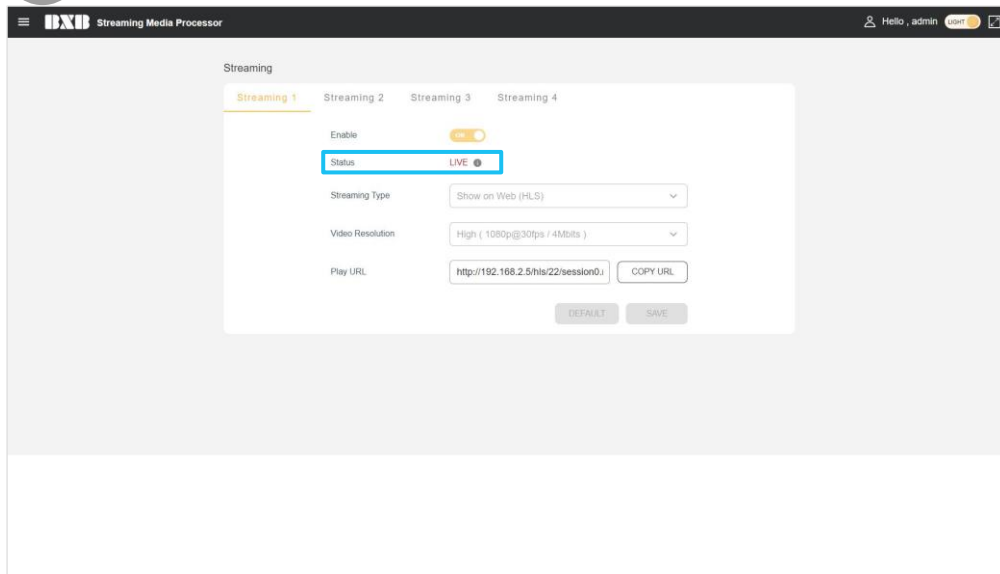


Return to "Dashboard" and then click "LIVE" icon to activate streaming.

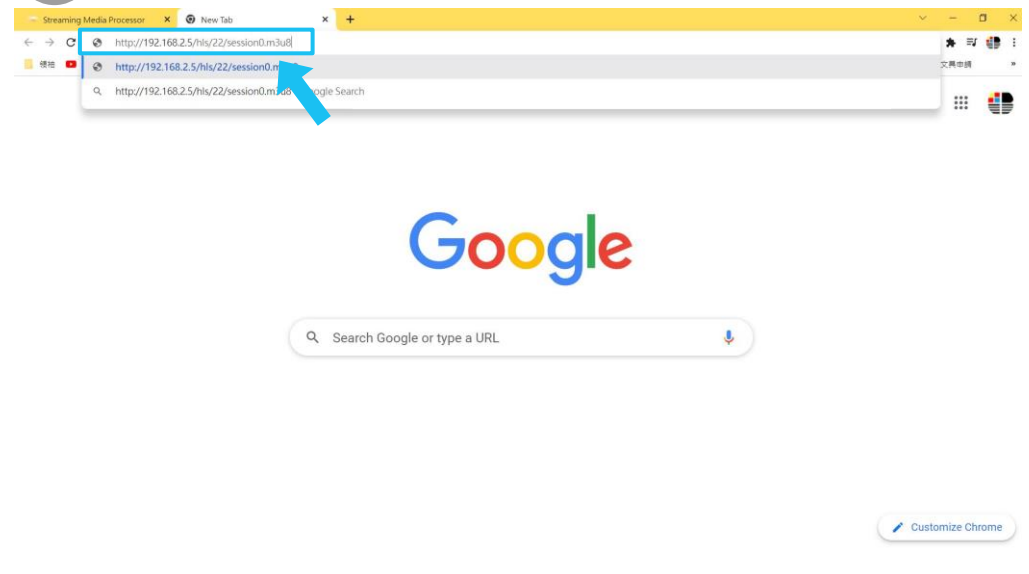
# Web GUI Interface

## System Setting\_Streaming\_HLS

9



10



Status indicates "LIVE" while the streaming is in progress.  
At this moment, the related settings cannot be changed.

Open Chrome browser and paste the streaming URL in  
the address bar.

11



Install Native HLS Playback on Chrome to receive HLS streaming signal. Or you can use players like VLC for HLS streaming.

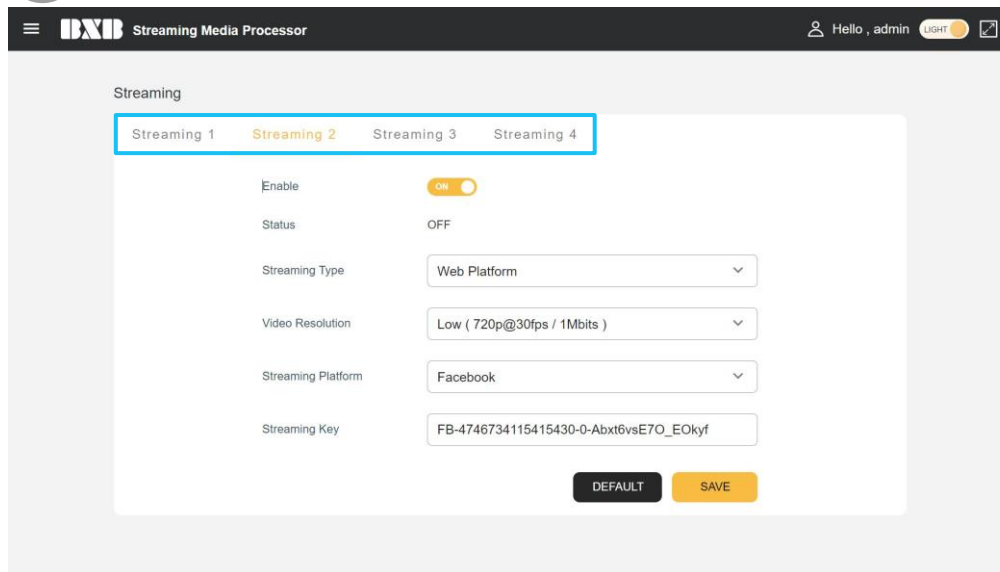


# Web GUI Interface

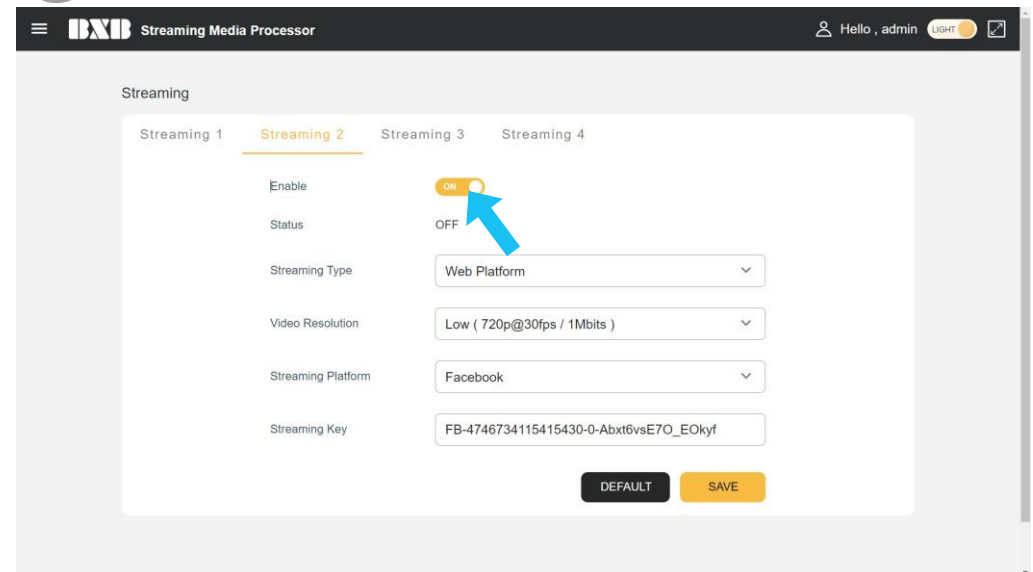
## System Setting\_Streaming\_Youtube

In streaming mode, select “Youtube” on “Web Platform” for live streaming under normal network communication.

1



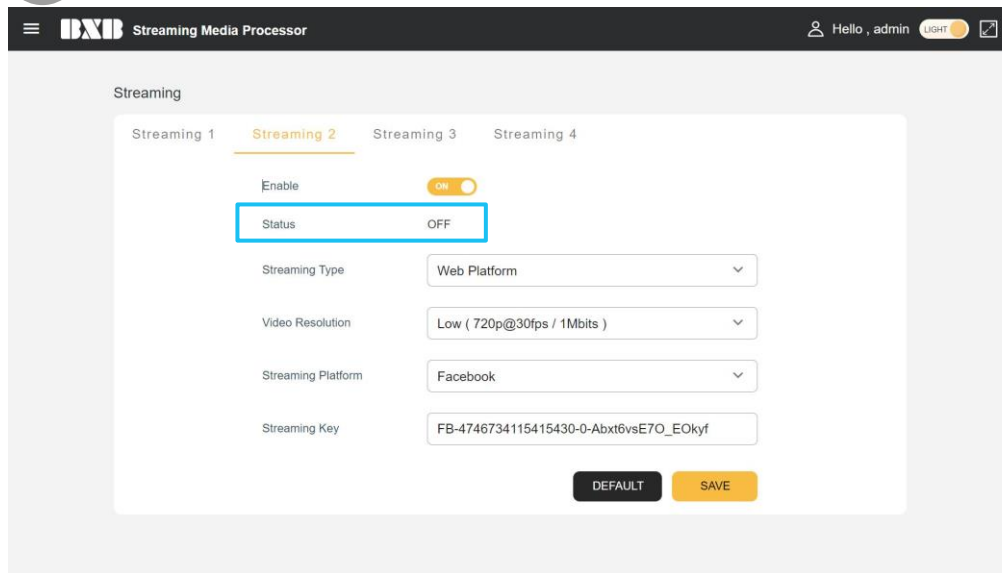
2



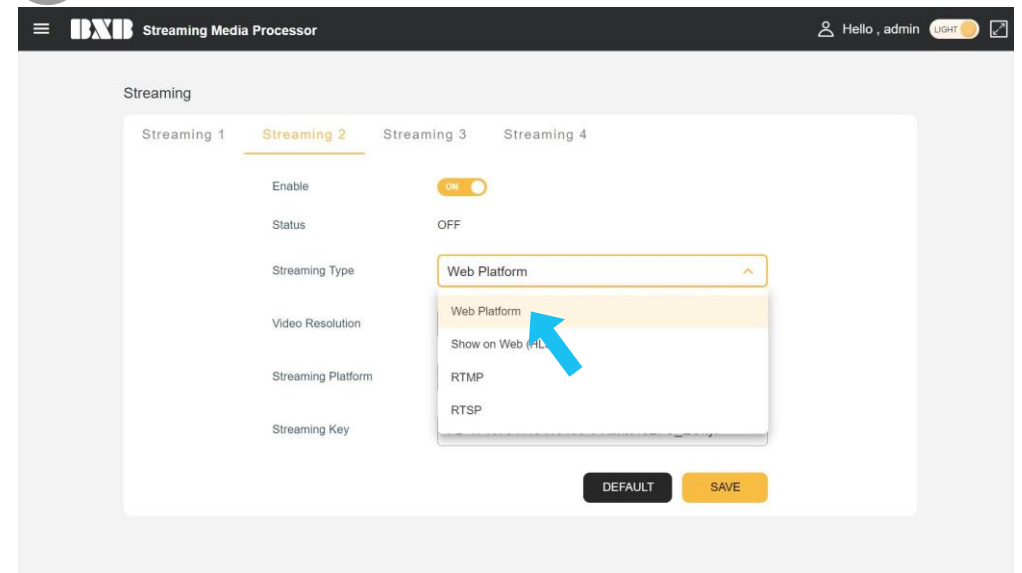
HDR-731 has four sets of streaming settings for editing different streaming information.

When you set to enable streaming and click “LIVE” icon on Dashboard, the streaming will be activated based on this setting.

3



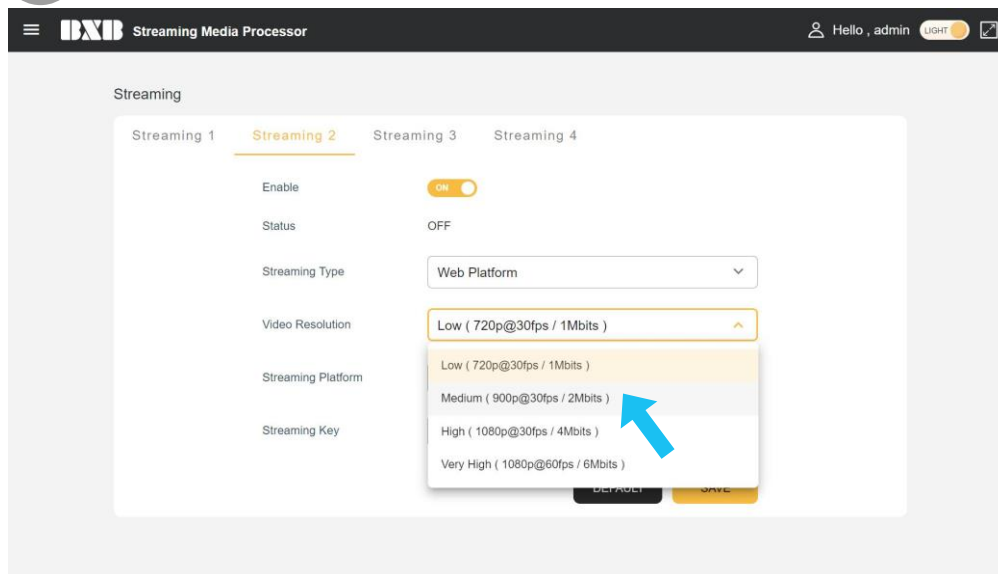
4



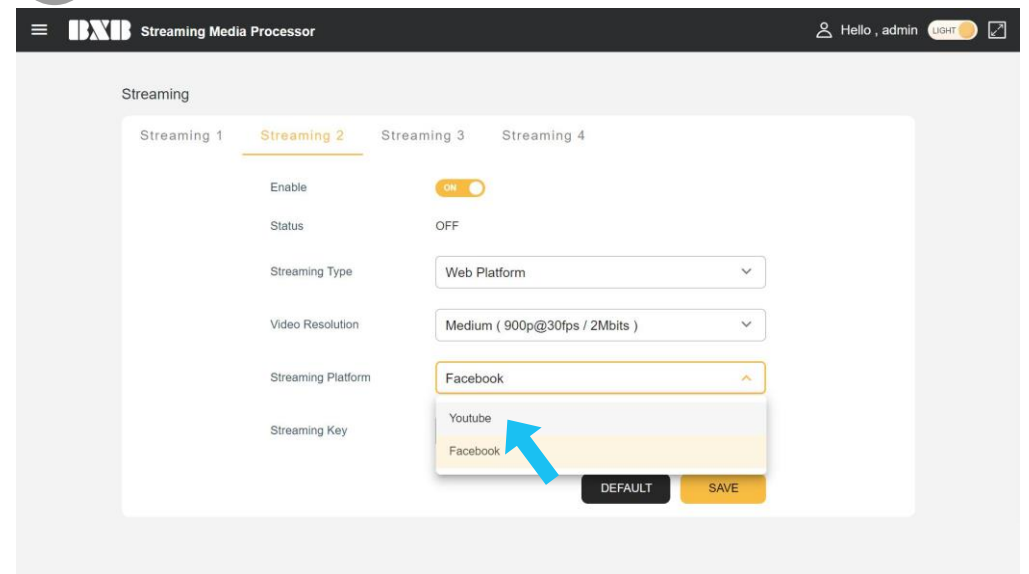
"Status" indicates if the streaming is in progress at the moment.

Select a streaming mode. In this example, "Web Platform" is selected.

5



6



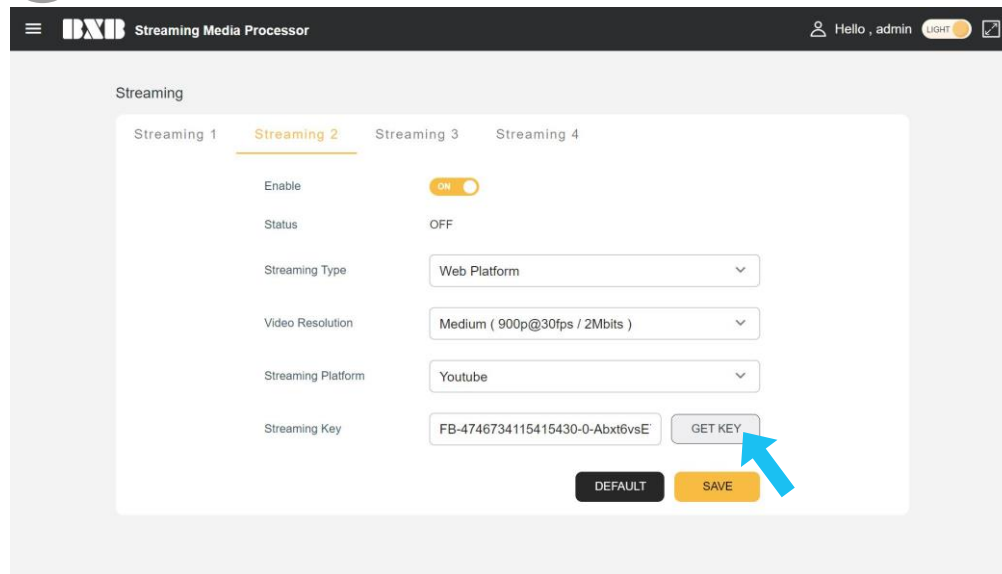
Select the streaming video resolution.

Select "Youtube" as the live-streaming platform.

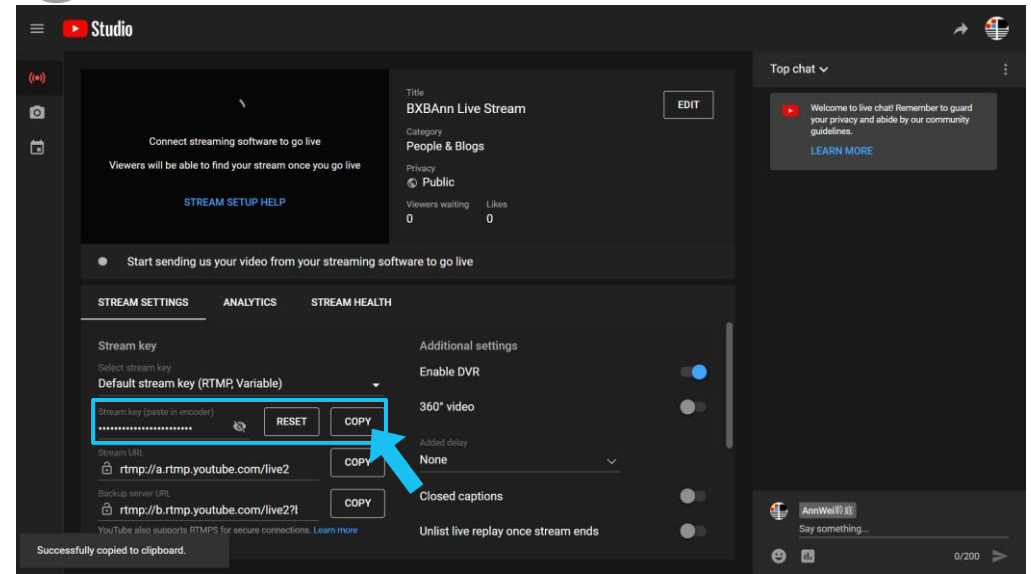
# Web GUI Interface

## System Setting\_Streaming\_Youtube

7



8



Click "GET KEY" to enter Youtube live-streaming page.

Copy the stream key on the Youtube setting page.

9

Streaming Media Processor

Streaming

Streaming 1 **Streaming 2** Streaming 3 Streaming 4

Enable

Status OFF

Streaming Type Web Platform

Video Resolution Medium ( 900p@30fps / 2Mbps )

Streaming Platform Youtube

Streaming Key  GET KEY

DEFAULT SAVE

10

Streaming Media Processor

Streaming

Streaming 1 **Streaming 2** Streaming 3 Streaming 4

Enable

Status OFF

Streaming Type Web Platform

Video Resolution Medium ( 900p@30fps / 2Mbps )

Streaming Platform Youtube

Streaming Key  GET KEY

DEFAULT SAVE

UPDATE SUCCESS

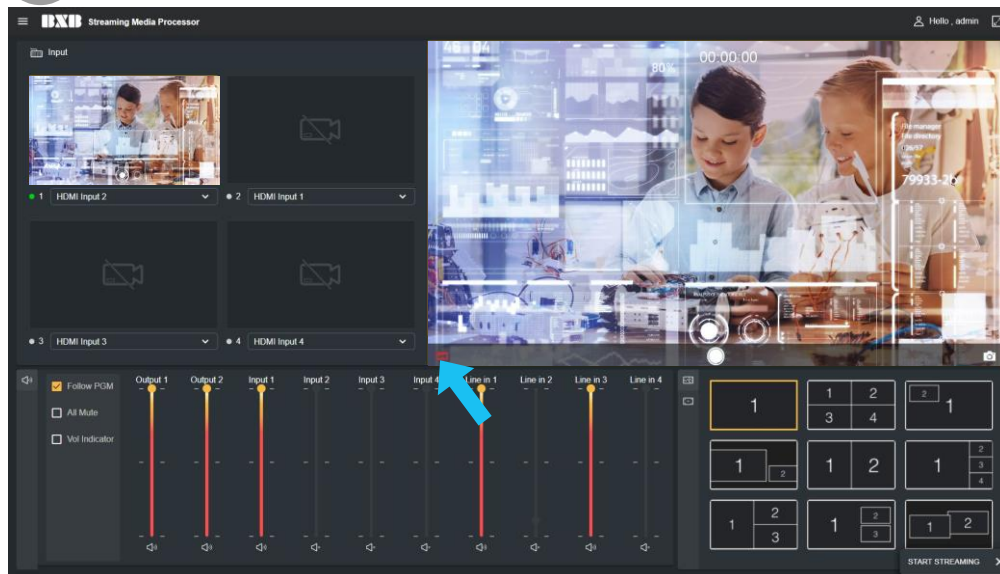
Return to HDR-731 page and then paste the stream key.

Click "SAVE" to complete setting.

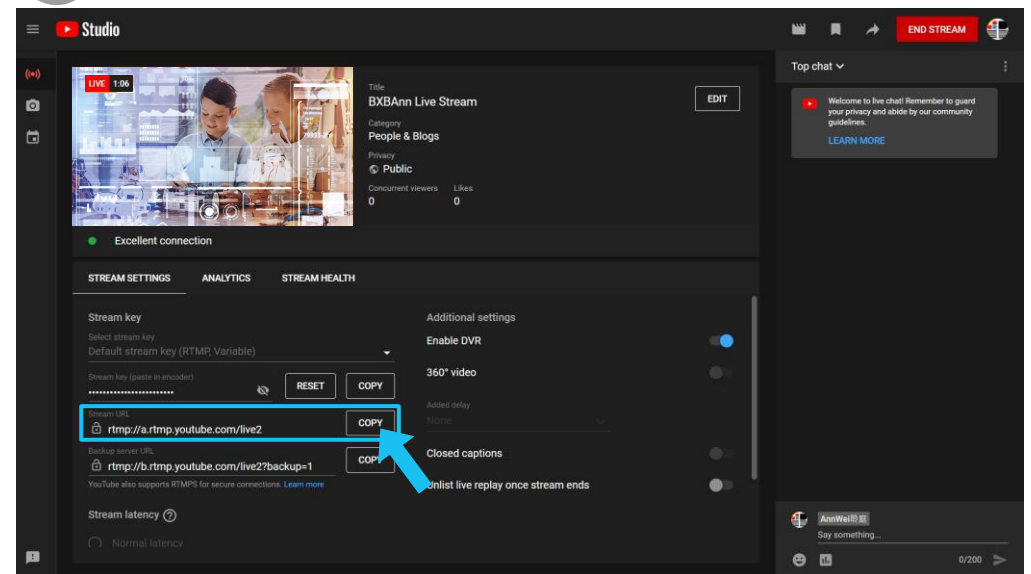
# Web GUI Interface

## System Setting\_Streaming\_Youtube

11



12



Click “LIVE” icon on Dashboard to start live-streaming.

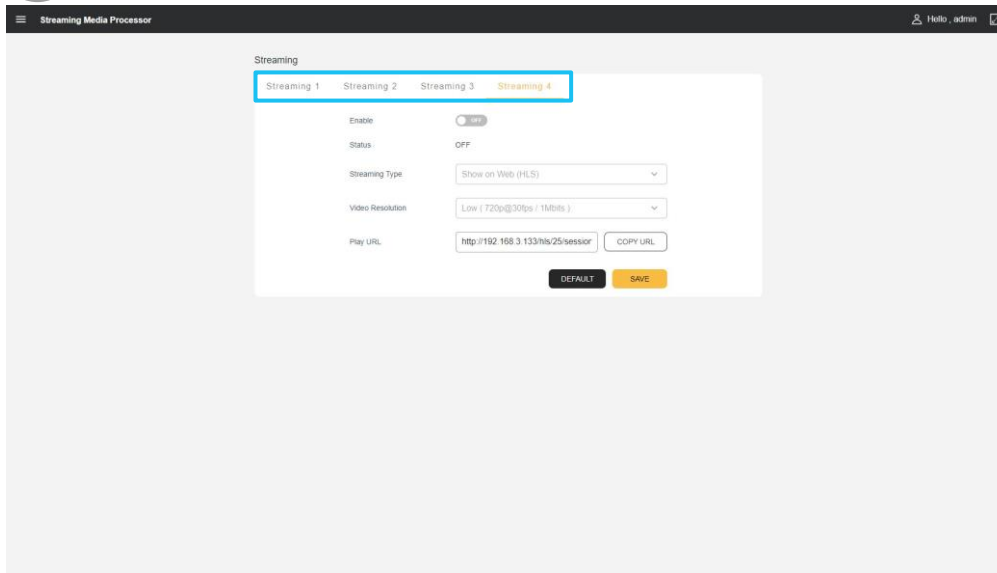
When the connection is normal, Youtube live-streaming will start. You can share the stream URL to the audience.

# Web GUI Interface

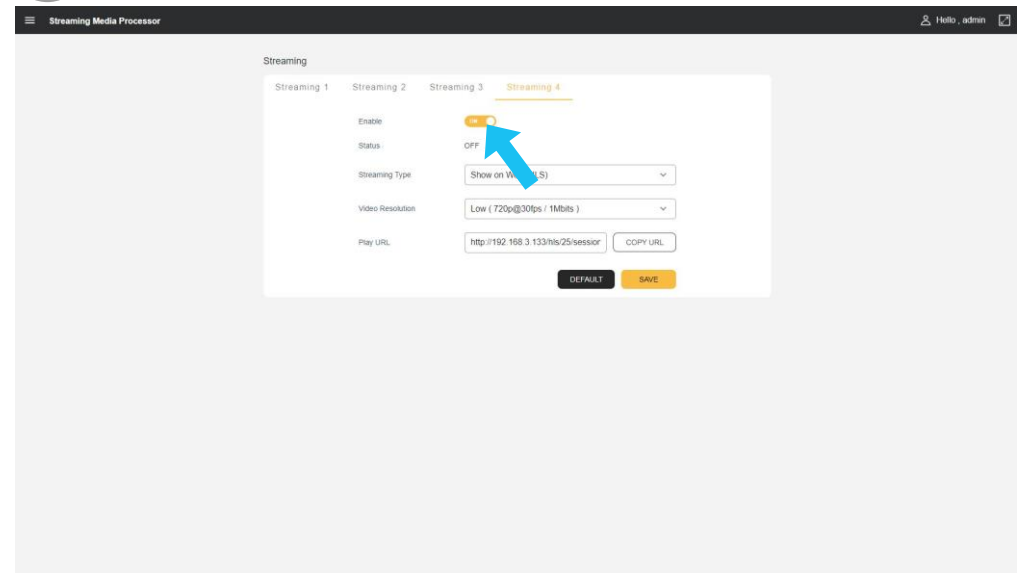
## System Setting\_Streaming\_Facebook

In streaming mode, select “Facebook” on “Web Platform” for live streaming under normal network communication.

1



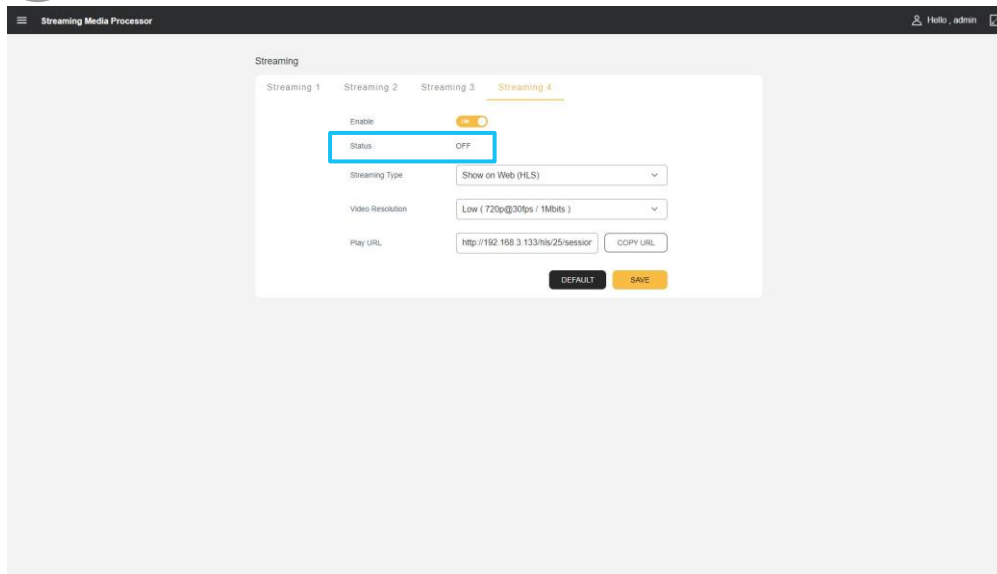
2



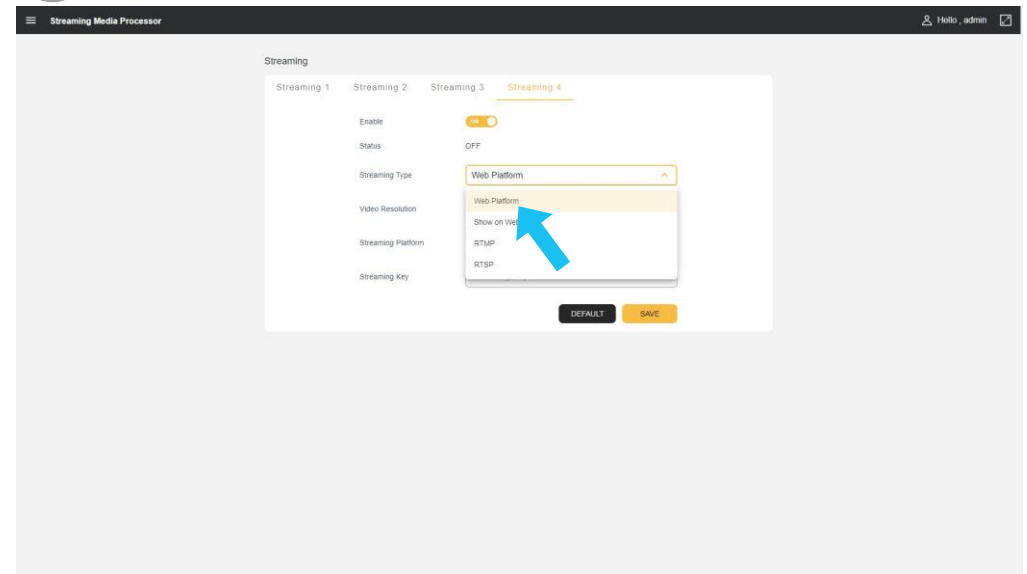
HDR-731 has four sets of streaming settings for editing different streaming information.

When you set to enable streaming and click “LIVE” icon on Dashboard, the streaming will be activated based on this setting.

3



4

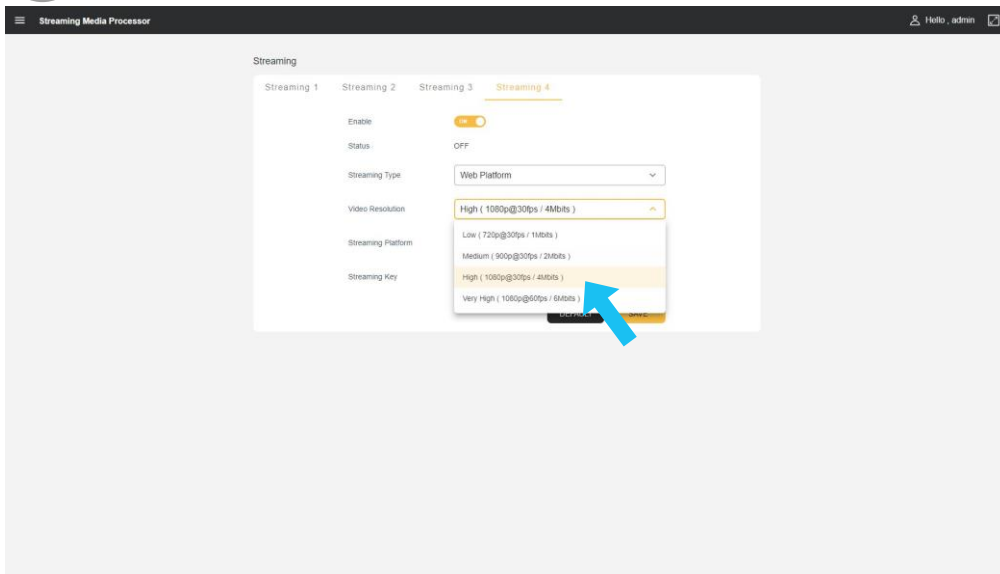


"Status" indicates if the streaming is in progress at the moment.

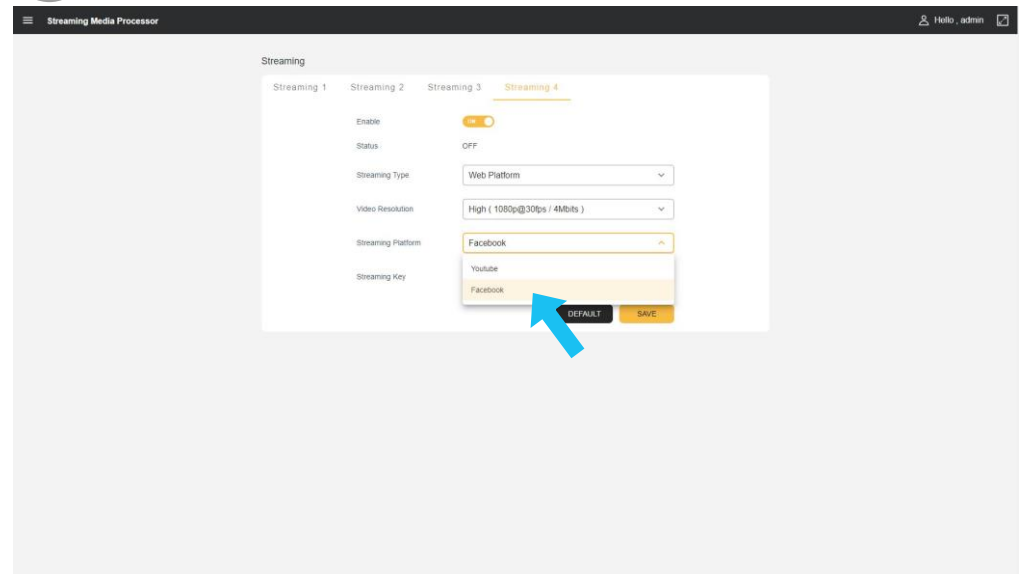
Select a streaming mode. In this example, "Web Platform" is selected.



5



6

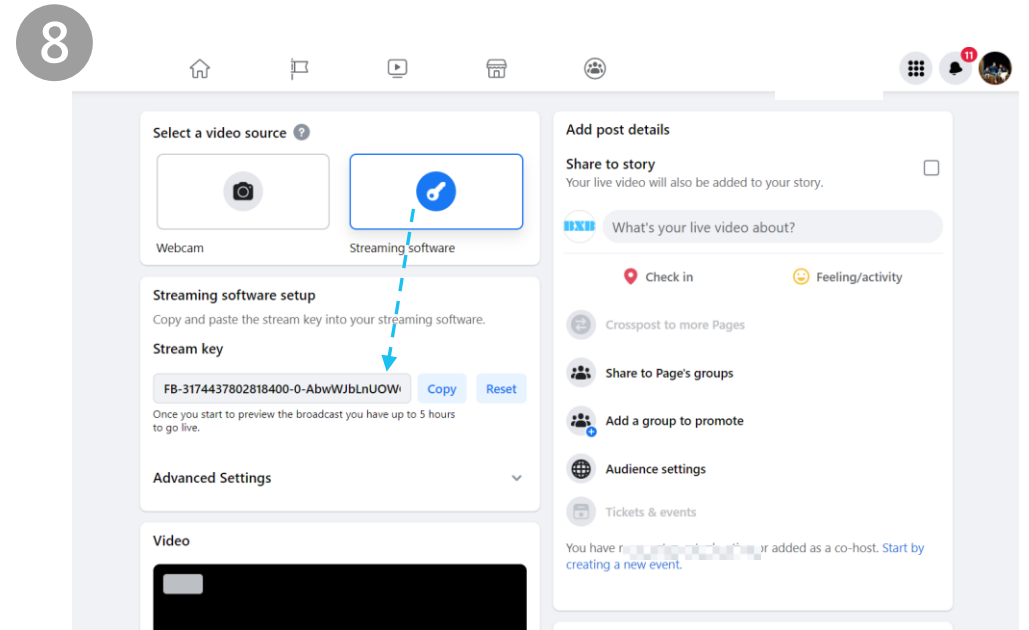
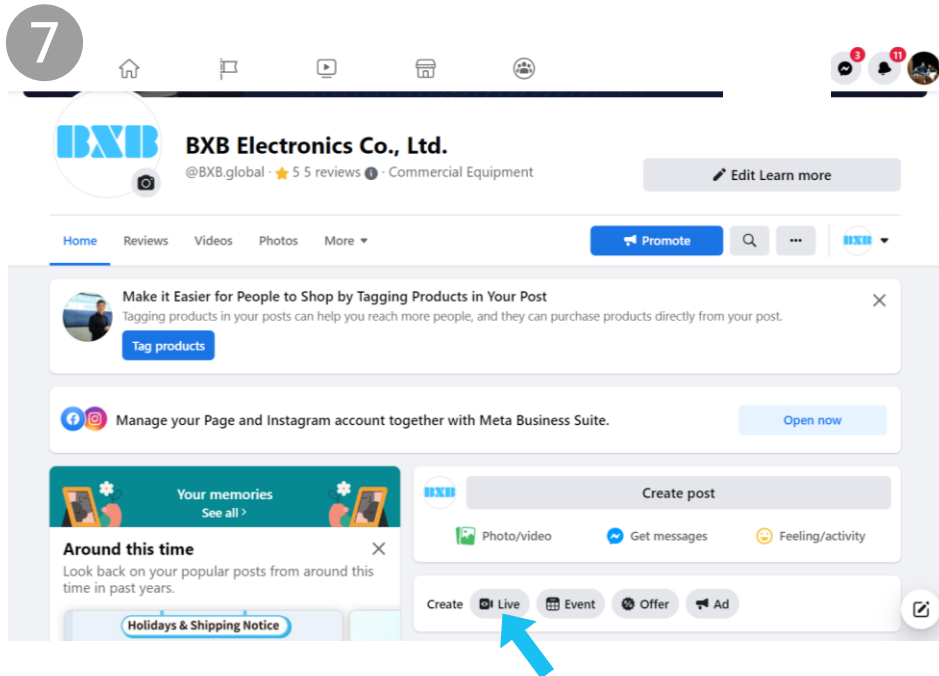


Select the streaming output resolution.

Select "Facebook" as the live-streaming platform.

# Web GUI Interface

## System Setting\_Streaming\_Facebook



Open the browser and click “Live” on Facebook page to go to the setting page.

Click “Stream key” and copy the streaming key.

9

Streaming Media Processor

Streaming

Streaming 1 **Streaming 2** Streaming 3 Streaming 4

Enable

Status OFF

Streaming Type Web Platform

Video Resolution Medium ( 900p@30fps / 2Mbps )

Streaming Platform Youtube

Streaming Key FB-4746734115415430-0-Abxt6vsE GET KEY

DEFAULT SAVE

10

Streaming Media Processor

Streaming

Streaming 1 **Streaming 2** Streaming 3 Streaming 4

Enable

Status OFF

Streaming Type Web Platform

Video Resolution Medium ( 900p@30fps / 2Mbps )

Streaming Platform Youtube

Streaming Key FB-4746734115415430-0-Abxt6vsE GET KEY

DEFAULT SAVE

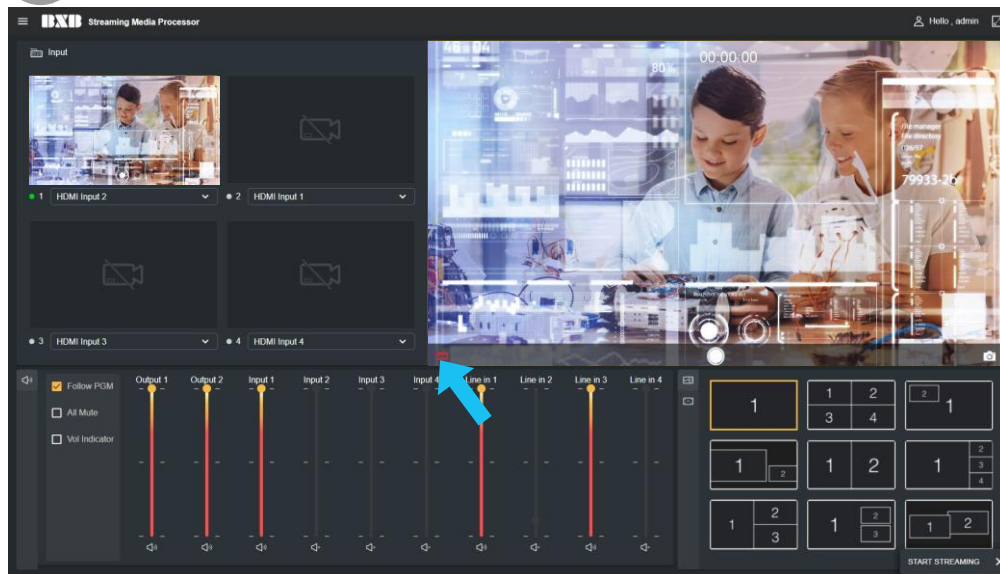
Return to HDR-731 page and then paste the stream key.

Click "SAVE" to complete setting.

# Web GUI Interface

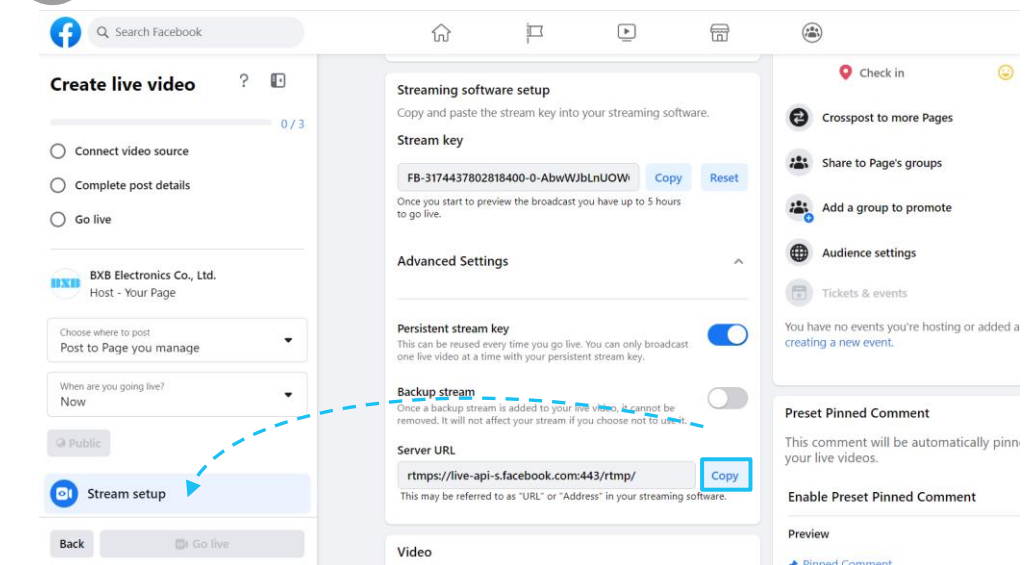
# System Setting\_Streaming\_Facebook

11



Click “LIVE” icon on Dashboard to start live-streaming.

12



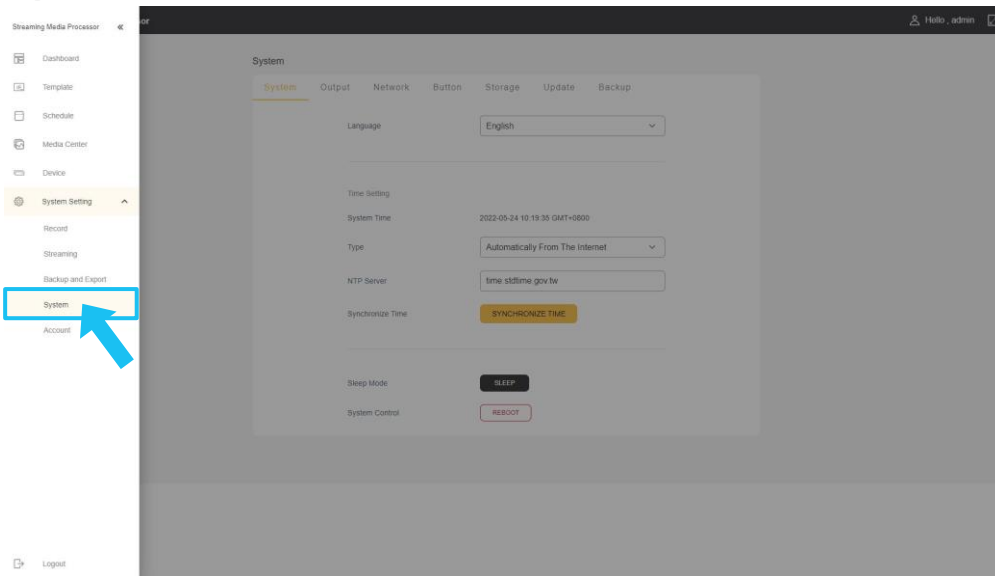
On Facebook setting page, streaming screen will be displayed under normal communication. You can share the Server URL to the audience in advance. Click “Go live” to perform live-streaming.

# Web GUI Interface

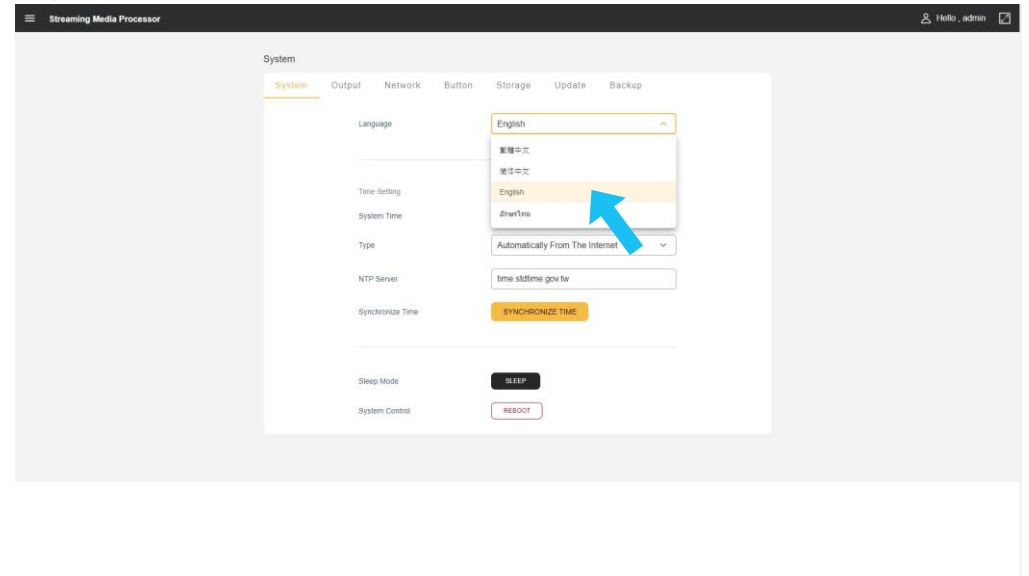
## System Setting\_System

The access authorization of system is owned by the administrator who can view or modify related system configurations. In “System”, you can set the display language and time setting displayed on WEB UI interface.

1



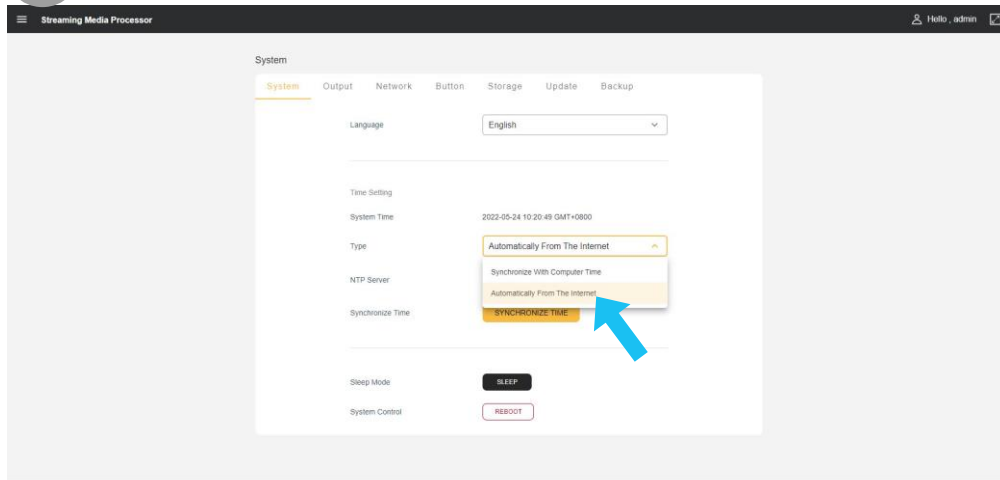
2



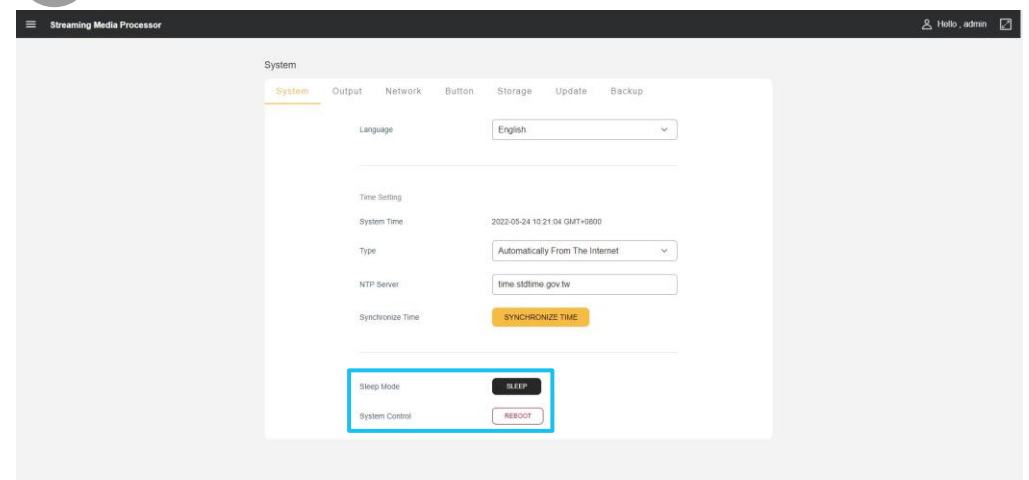
Click “System” to enter the setting page.

Select a language for Web UI interface. Currently supported languages: Traditional Chinese, Simplified Chinese, English and Thai.

3



4



Time Setting: sets network timing or manual timing.

- Automatically From The Internet: sets the timing server to be connected.
- Synchronize With Computer Time: synchronizes the time with HDR-731 via local PC time.

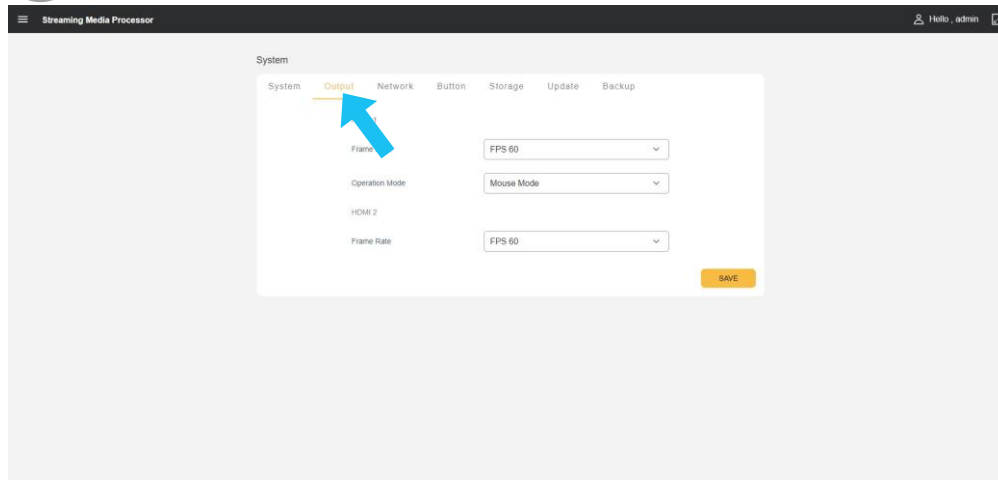
Click “SLEEP” to activate sleep mode; the system will not be able to perform recording / streaming. Meanwhile, the output screen will be turned off until clicking again to “WAKE”.

Click “REBOOT” to reboot HDR-731.

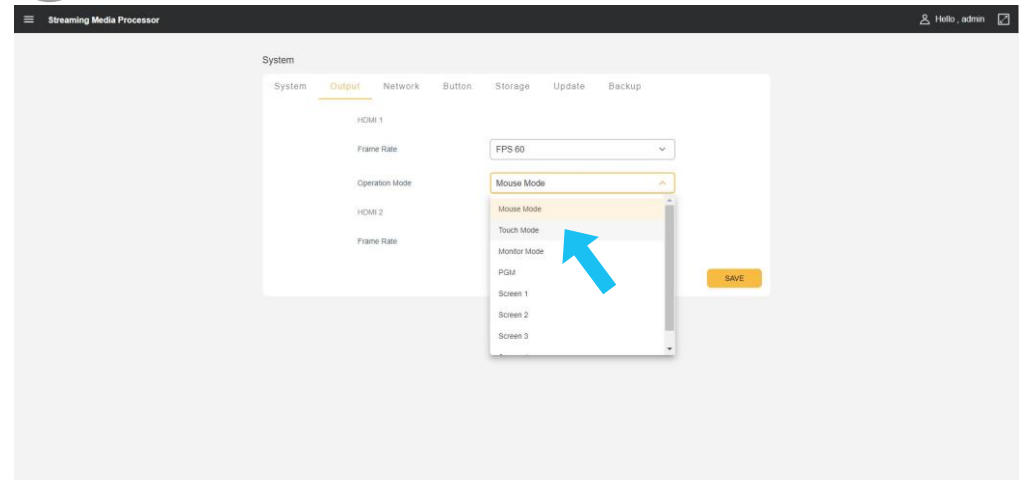
## System Setting\_System\_Output

HDR-731 is equipped with two HDMI outputs. You can set HDMI 1 output control mode and two output frame rates.

1



2

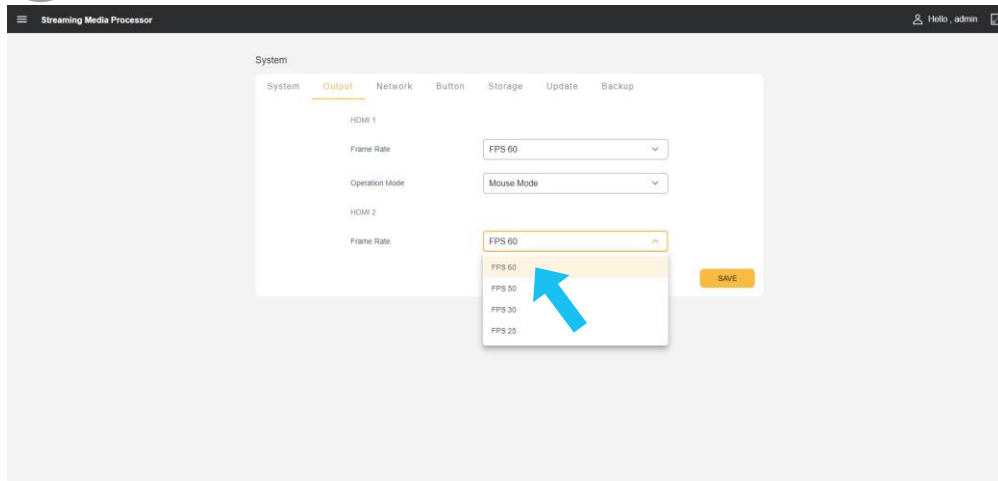


Click “Output” to enter the setting page. You can set two HDMI output frame rates for HDR-731.

Set the operation mode and output frame rate for HDMI 1.

When HDR-731 connected with USB mouse or touch screen, the related mode for HDMI 1 image output will be set correspondingly.

3



Set the frame rate for HDMI 2.

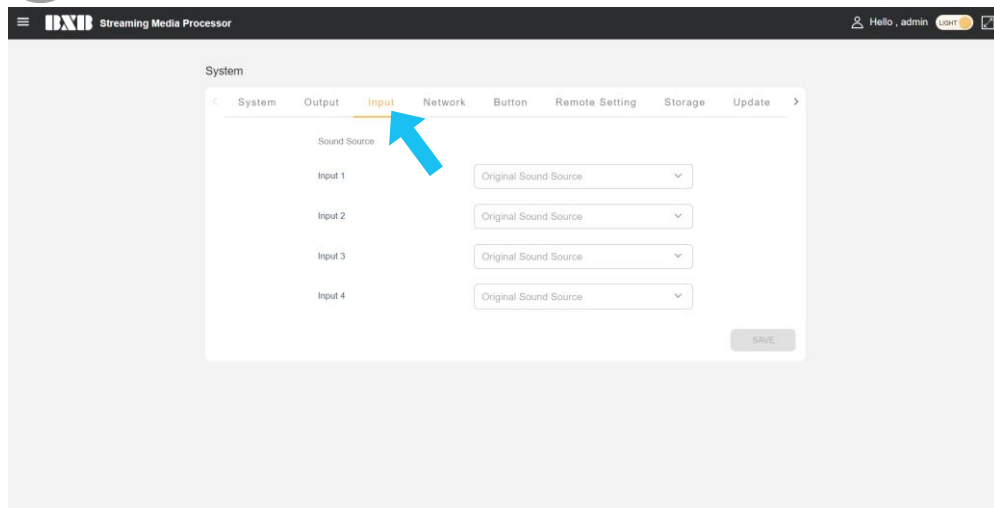


# Web GUI Interface

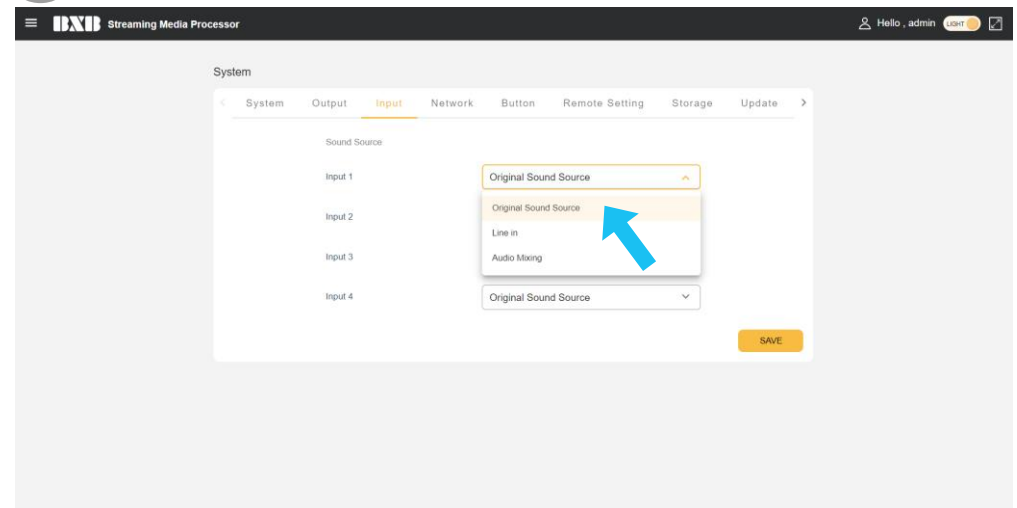
## System Setting\_System\_Input

The recording mode of HDR-731 can be set as "PGM + 4 Inputs" to capture the image of PGM and the 4CH video sources. Simultaneously, you can configure the recording audio source for each video channel.

1



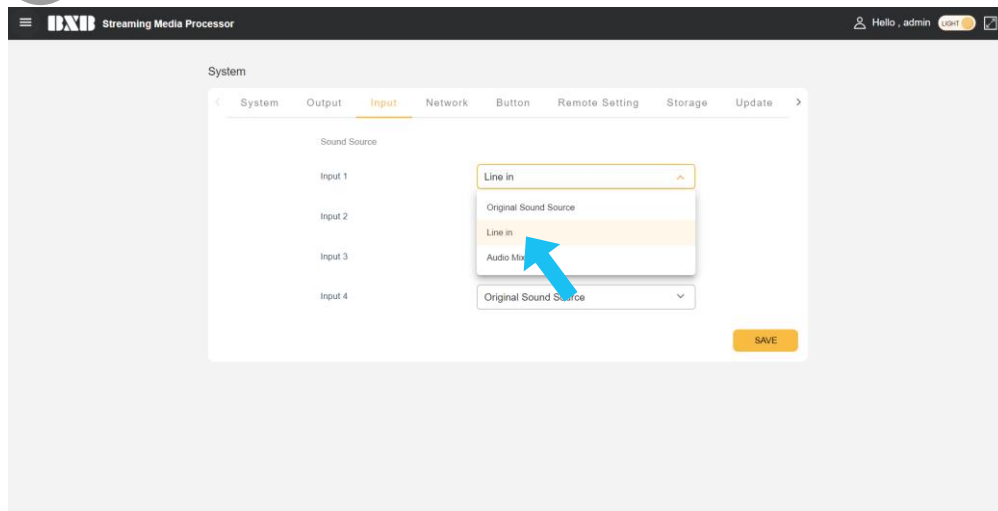
2



When the recording mode is set as "PGM + 4 Inputs", you can configure the audio source for each video channel via "Input" page.

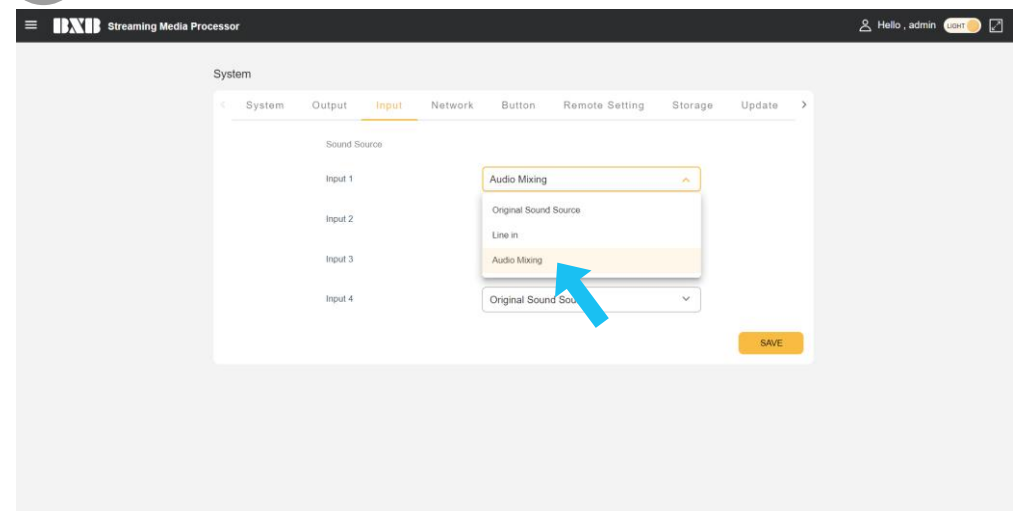
Set the audio input as "Original Sound Source" to bind HDMI / streaming audio for the recording.

3



Set the audio input as “Line in” to bind 3.5 Line In as the audio source for the recording.

4



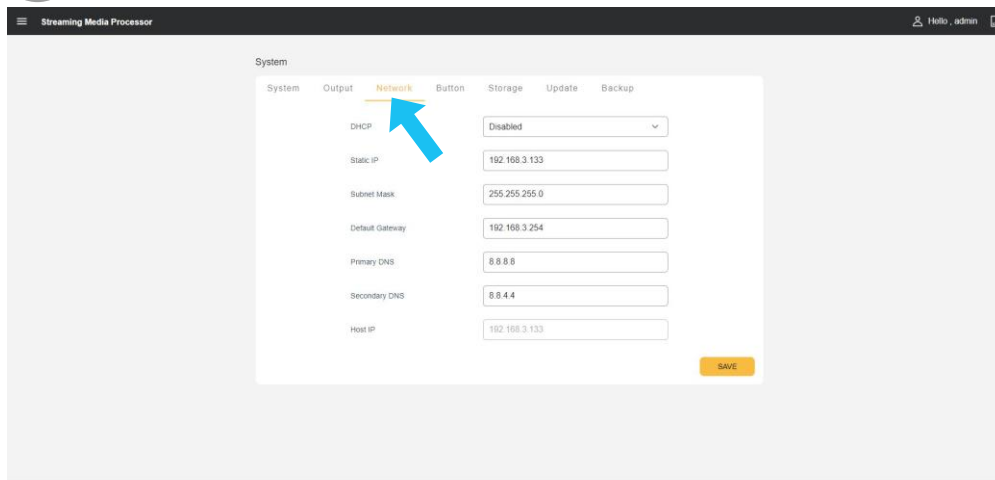
Set the audio input as “Audio Mixing” to bind HDMI / streaming and 3.5 Line In as the audio sources for the recording.

# Web GUI Interface

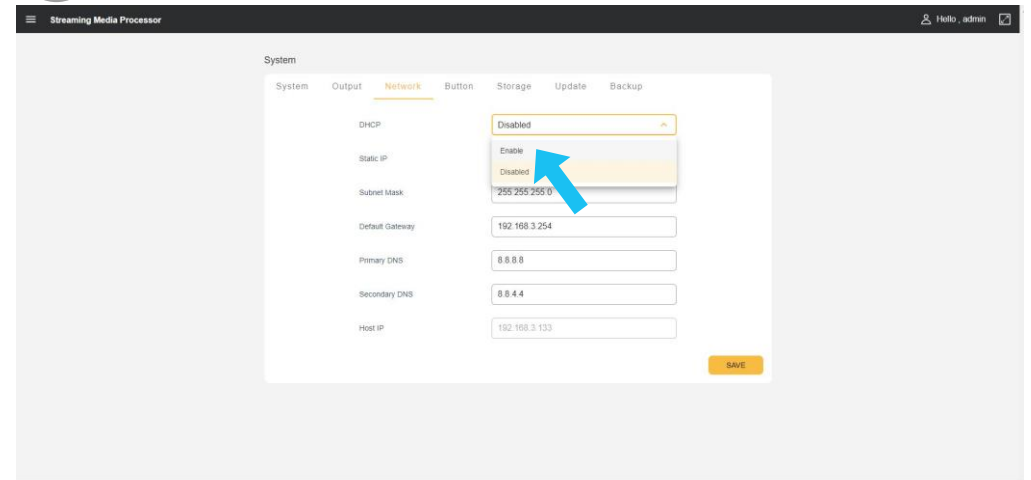
## System Setting\_System\_Network

The default method to get IP address for HDR-731 is “DHCP”. If the IP address cannot be got via “DHCP” in the domain, the default fixed IP is “192.168.168.130”.

1



2



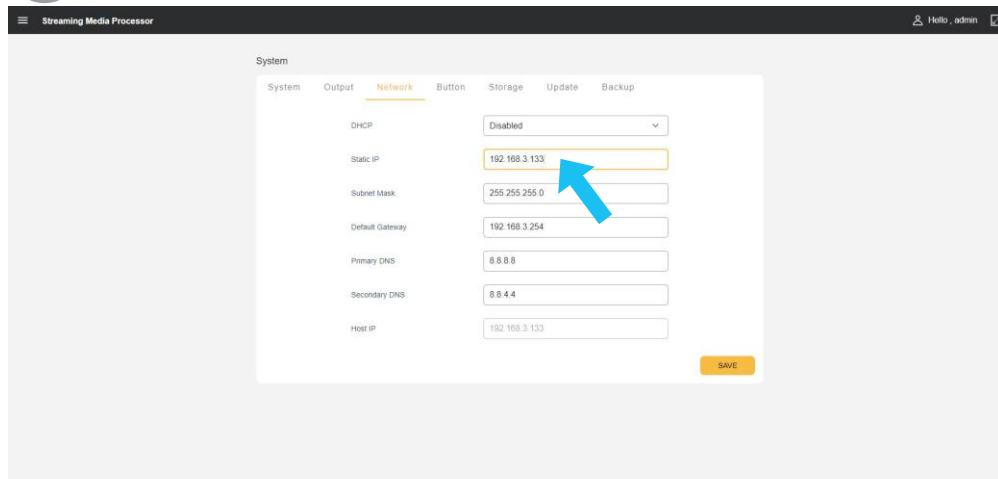
Click “Network” to enter the setting page.

If “DHCP” is activated, HDR-731 will distribute network information via the network device in LAN.

# Web GUI Interface

## System Setting\_System\_Network

3



4



If "DHCP" is disabled, it is necessary to key in the corresponding static IP address manually.

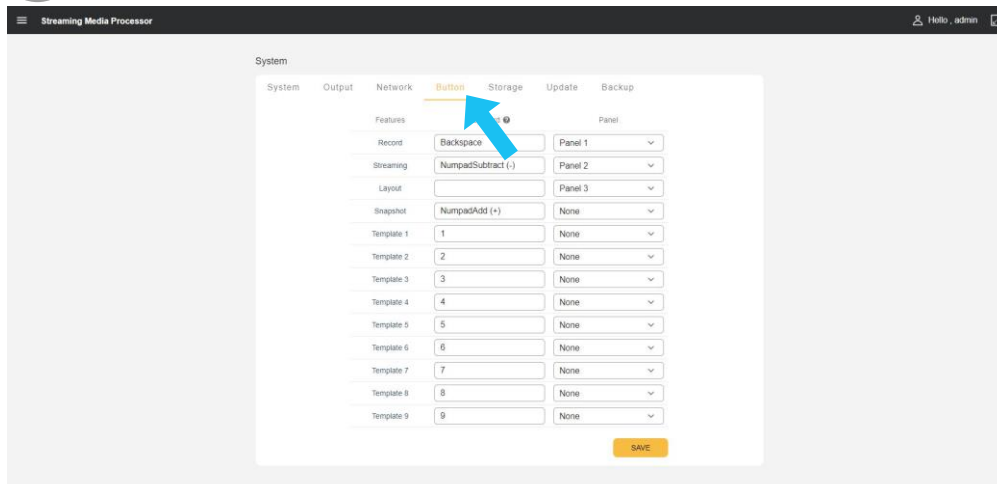
The IP address of HDR-731 will be displayed at the right lower corner on HDMI 1 output screen.

# Web GUI Interface

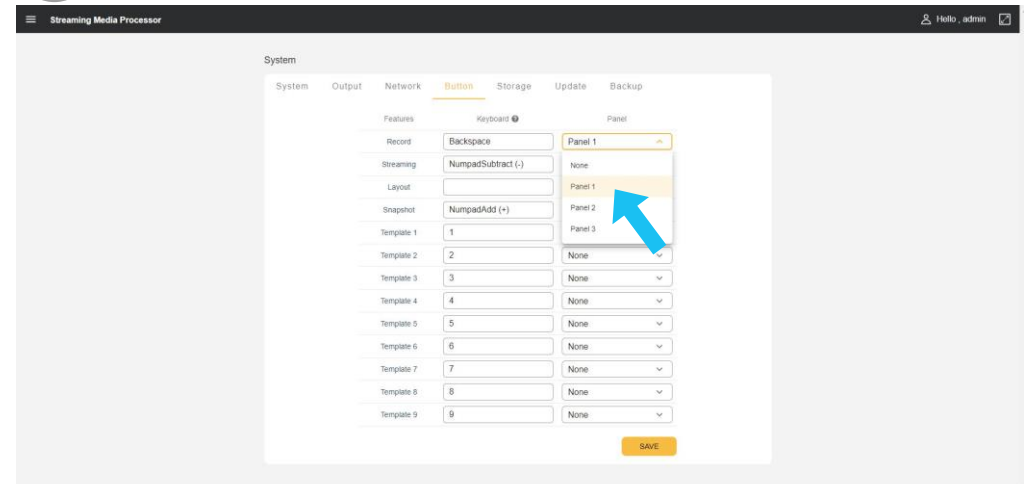
## System Setting\_System\_Button

The front panel of HDR-731 is equipped with three function buttons for setting the corresponding functions freely. You can also make it by the keypad connected via USB.

1



2

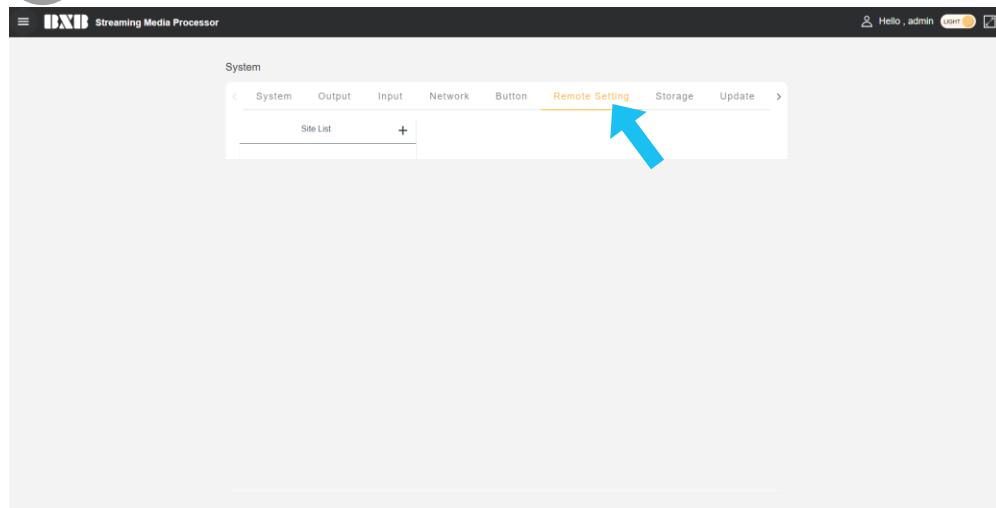


Click "Button" to enter the setting page.

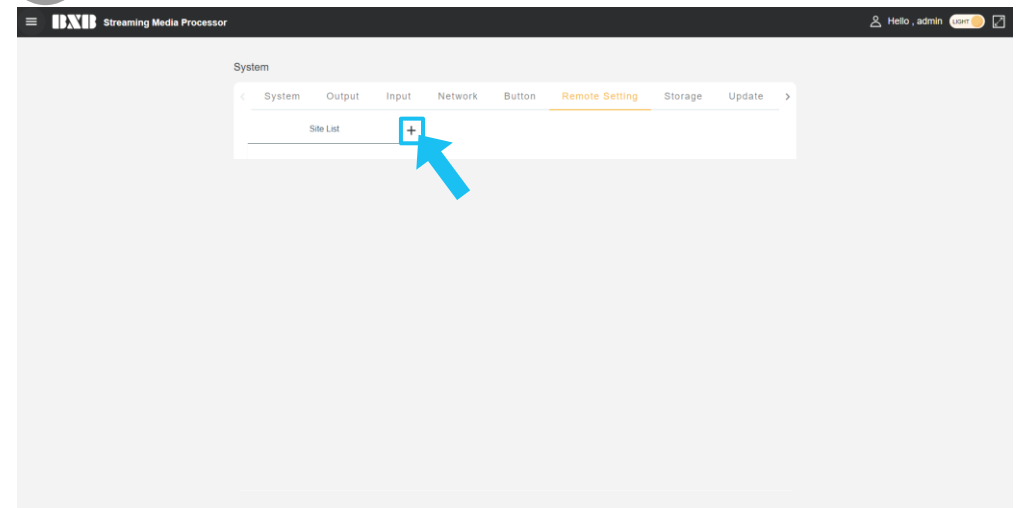
Select the keyboard corresponding to the function for binding; for panel button setting, corresponding panel is selected based on the corresponding function.

This function is for remote backup, which supports FTP and NFS protocols.

1



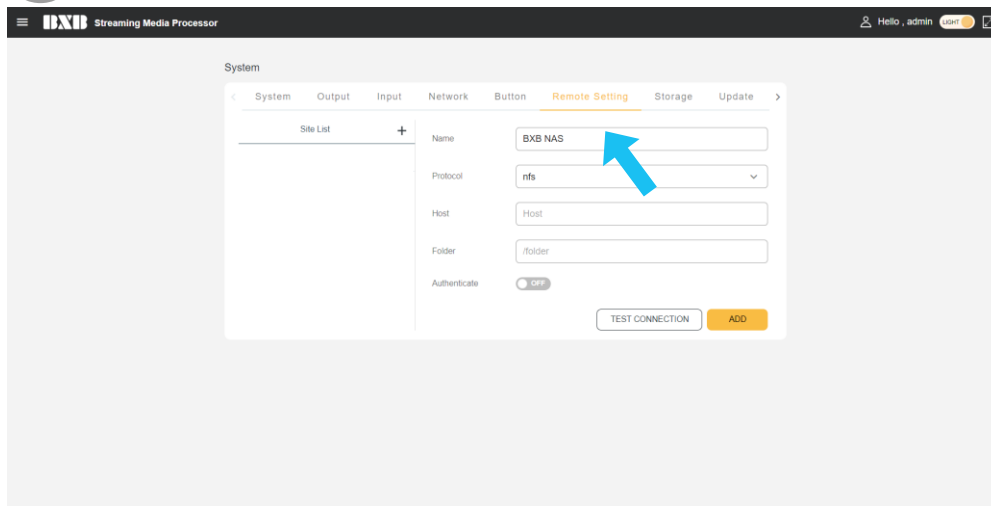
2



Click "Remote Setting" to enter the page.

Click "+" to add a remote backup space.

3



System

System Output Input Network Button Remote Setting Storage Update

Site List +

Name:

Protocol:

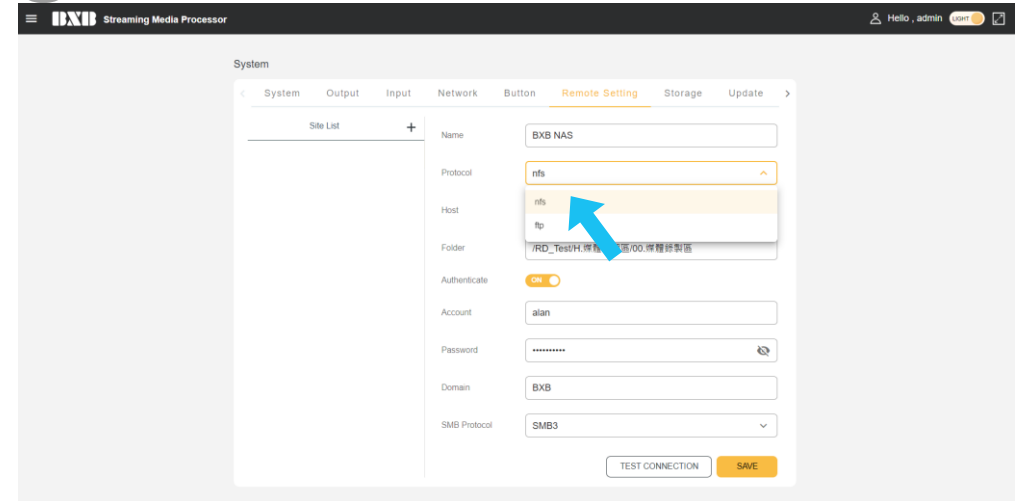
Host:

Folder:

Authenticate:

TEST CONNECTION ADD

4



System

System Output Input Network Button Remote Setting Storage Update

Site List +

Name:

Protocol:

Host:

Folder:

Authenticate:

Account:

Password:

Domain:

SMB Protocol:

TEST CONNECTION SAVE

Name the remote backup space.

Choose "NFS" or "FTP" as the backup protocol.

5

System

System Output Input Network Button Remote Setting Storage Update

Site List +

Name: BXB NAS

Protocol: nfs

Host: 192.168.1.102

Folder: /RD\_TestH.煤體管理區/00.煤體排製區

Authenticate: ON

Account: alan

Password: .....

Domain: BXB

SMB Protocol: SMB3

TEST CONNECTION SAVE

6

System

System Output Input Network Button Remote Setting Storage Update

Site List +

Name: BXB NAS

Protocol: nfs

Host: 192.168.1.102

Folder: /RD\_TestH.煤體管理區/00.煤體排製區

Authenticate: ON

Account: alan

Password: .....

Domain: BXB

SMB Protocol: SMB3

TEST CONNECTION SAVE

Enter the related configurations in sequence.

After "TEST CONNECTION" is successful, click "SAVE" to save the settings.

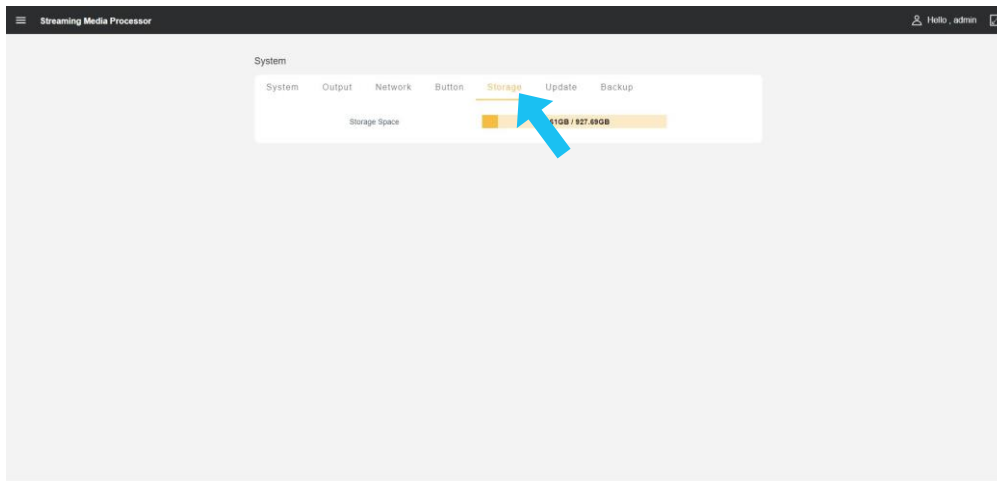


# Web GUI Interface

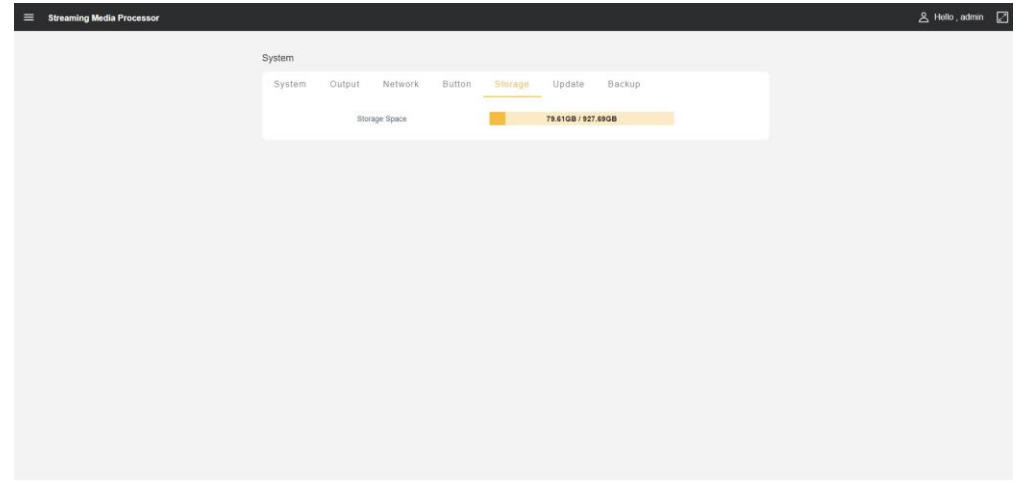
## System Setting\_System\_Storage

HDR-731 internal storage space. The space usage status of HDR-731 can be viewed on this page.

1



2



Click "Storage" to enter the setting page.

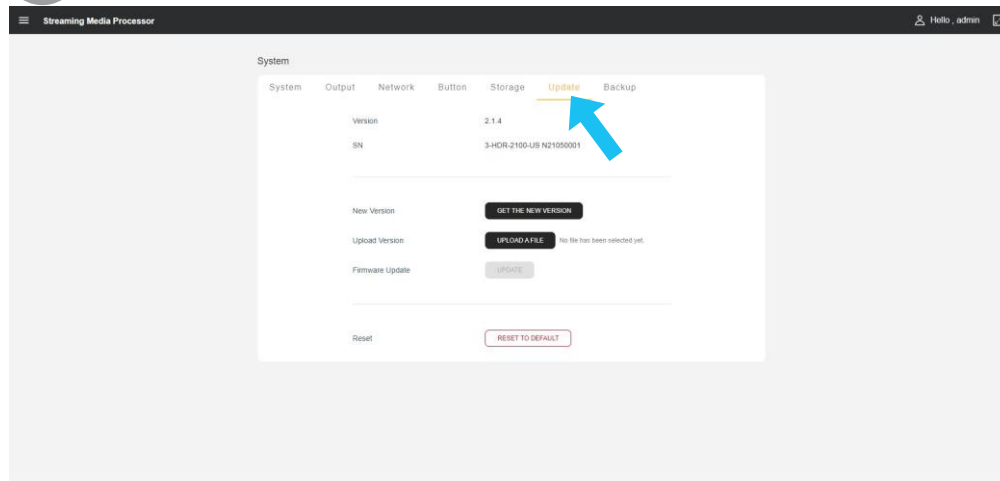
View the usage status of HDR-731 internal storage space.

# Web GUI Interface

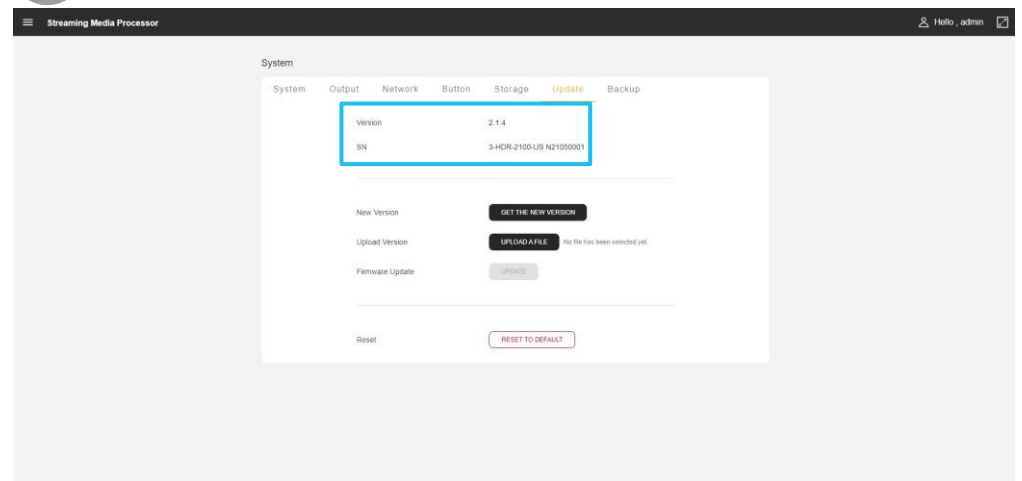
## System Setting\_System\_Update

You can compare with the version in cloud database to download the latest firmware and then upload the file to HDR-731 manually.

1



2

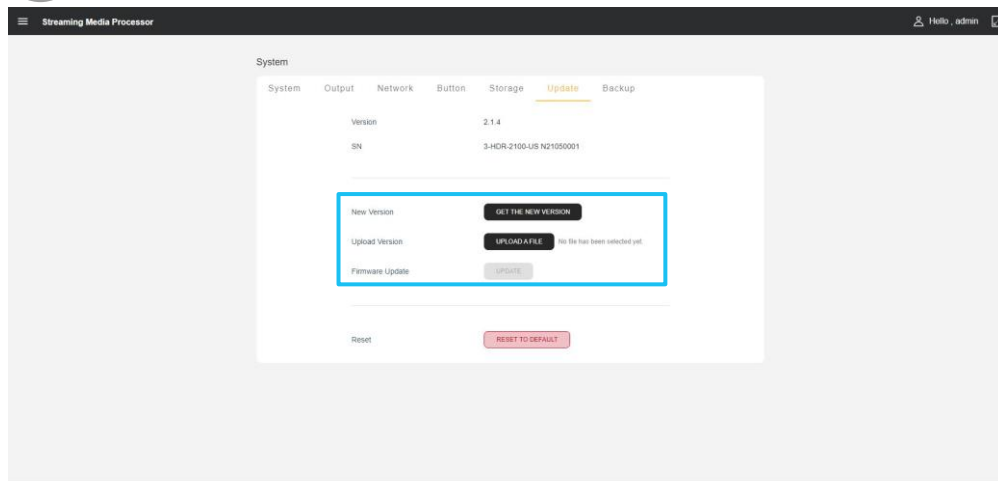


Click "Update" to enter the setting page

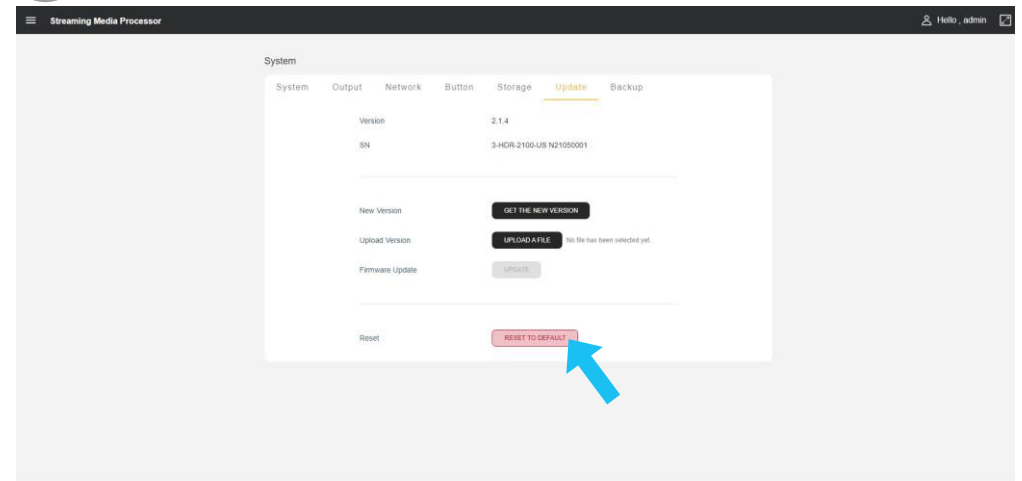
"Version" indicates the current version of HDR-731.

"SN" indicates the serial number of HDR-731.

3



4



Under normal network communication, click “GET THE NEW VERSION” to download the latest firmware. After that, click “UPLOAD FILE”, select the firmware file, and then click “UPDATE”.

※ Before firmware update, it is recommended to backup layout settings, recording files, and screen capture files at first to avoid data loss.

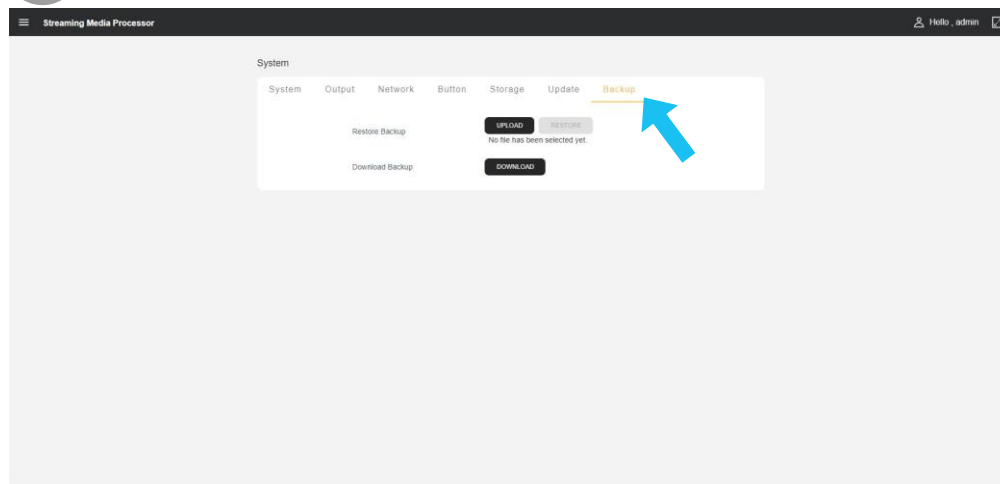
Click “RESET TO DEFAULT” to restore the system settings such as network setting, account and password setting, etc.

# Web GUI Interface

## System Setting\_System\_Backup

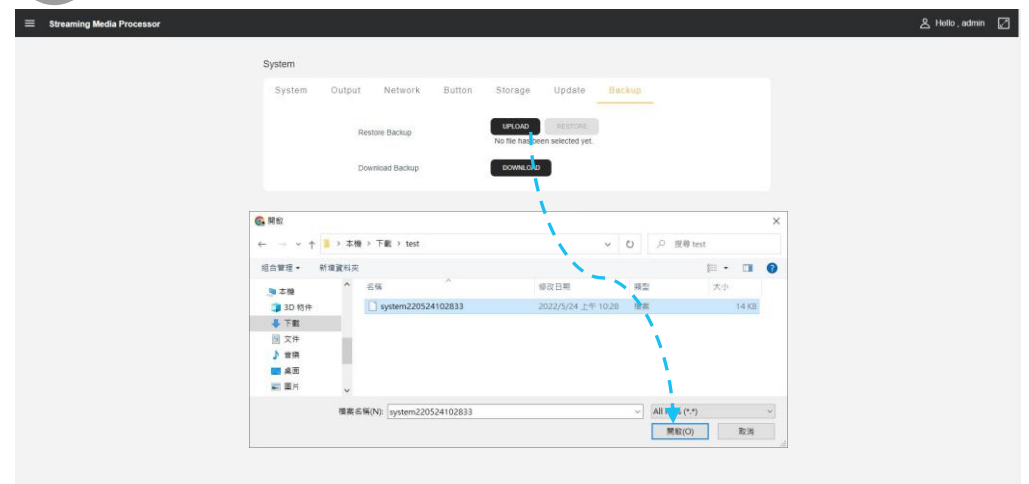
You can backup the system settings as the configuration file to import the data when replacing equipment afterward.

1



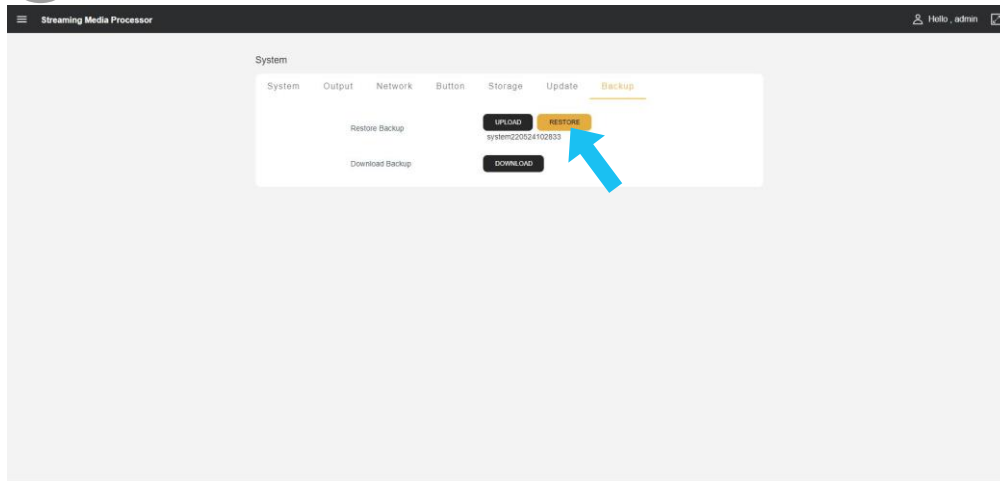
Click “Backup” to enter the setting page.

2



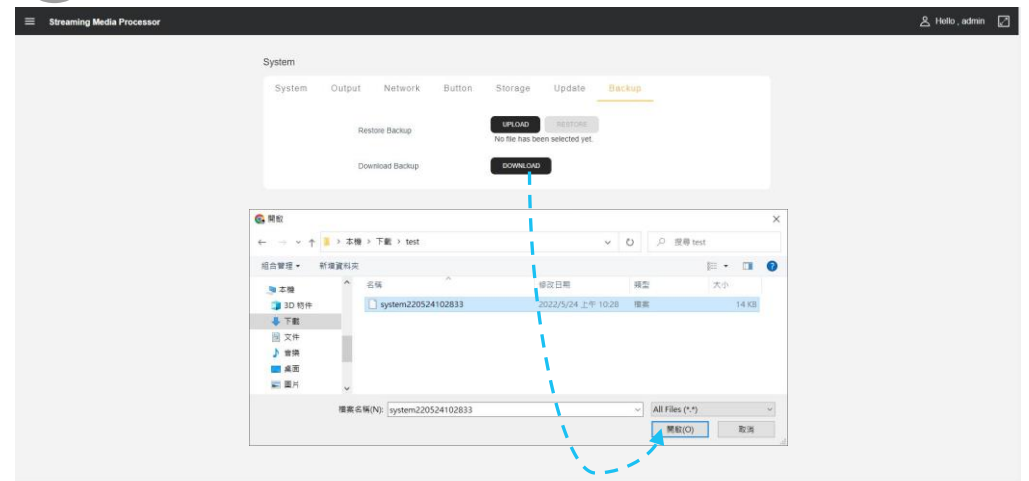
Click “UPLOAD” to open the file selection window and then select a backup file.

3



Click “RESTORE” to apply that backup file. After applying it, HDR-731 will reboot.

4

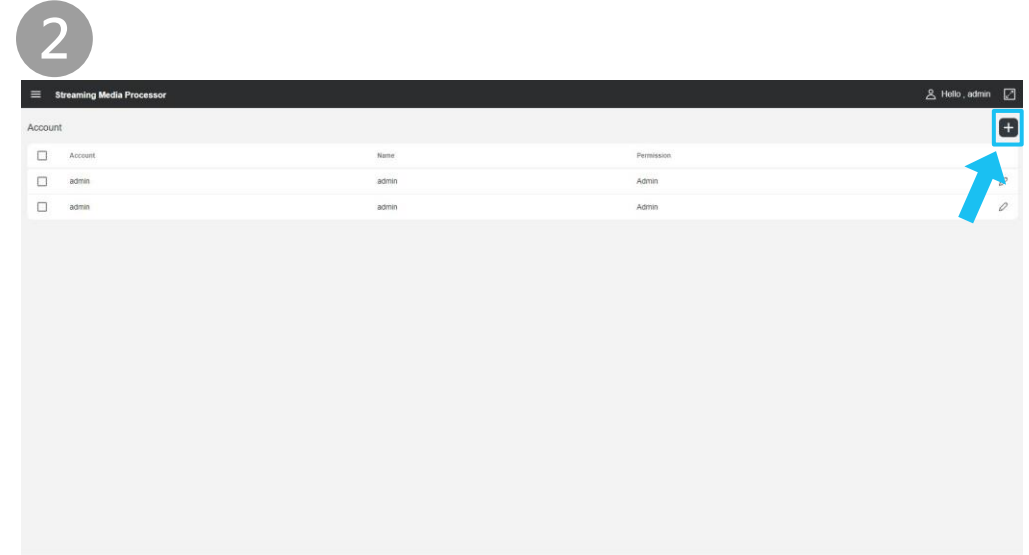


Click “DOWNLOAD” to download the current backup file to the selected storage space.

# Web GUI Interface

## System Setting\_Account

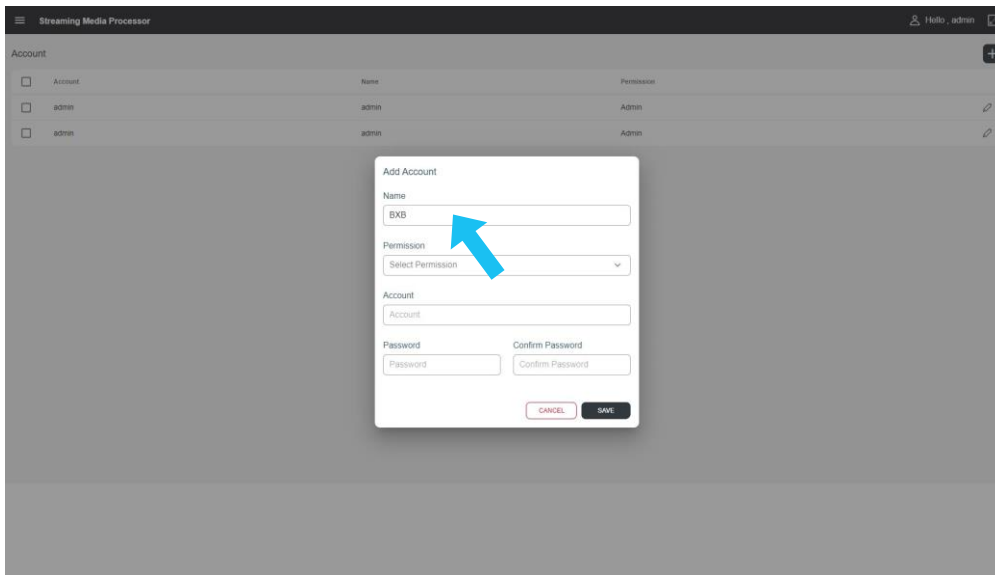
The default administrator account is “admin”; password “00000”. “User” or “Viewer” account can be added sequentially for different users in different LANs to log in.



Click “Account” to enter the setting file.

Click icon “+” to add a new account.

3



Streaming Media Processor

Account

Account	Name	Permission
<input type="checkbox"/>	Account	
<input type="checkbox"/>	admin	Admin
<input type="checkbox"/>	admin	Admin

Add Account

Name  
BXB

Permission  
Select Permission

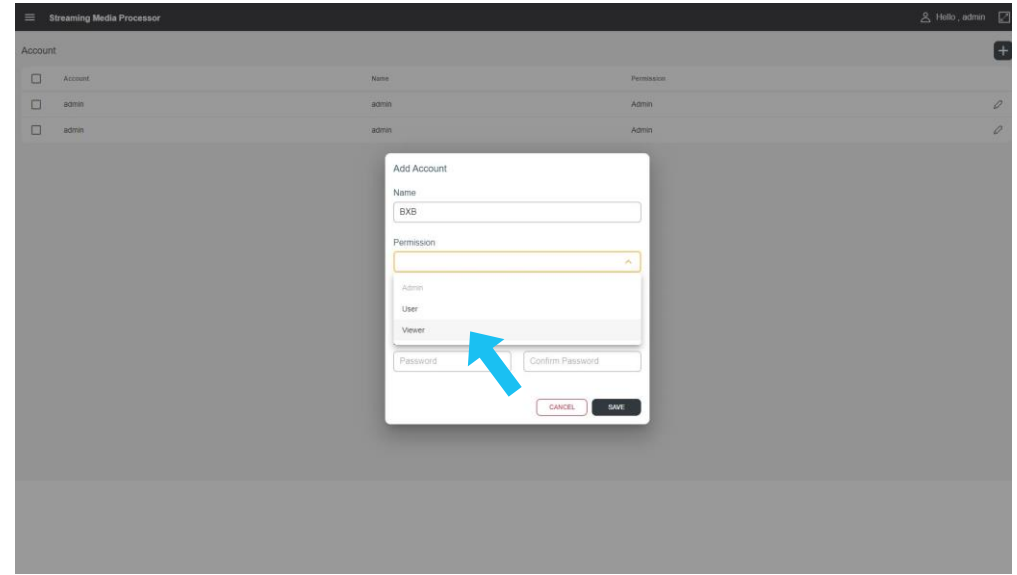
Account  
Account

Password  
Password

Confirm Password  
Confirm Password

CANCEL SAVE

4



Streaming Media Processor

Account

Account	Name	Permission
<input type="checkbox"/>	Account	
<input type="checkbox"/>	admin	Admin
<input type="checkbox"/>	admin	Admin

Add Account

Name  
BXB

Permission  
Admin  
User  
Viewer

Account  
Account

Password  
Password

Confirm Password  
Confirm Password

CANCEL SAVE

Enter the username of that account.

Select the permission of that account: . "User" or "Viewer".

5

Streaming Media Processor

Account

Account	Name	Permission
<input type="checkbox"/>	Account	
<input type="checkbox"/>	admin	Admin
<input type="checkbox"/>	admin	Admin

Add Account

Name  
BXB

Permission  
Viewer

Account  
viewer

Password  
\*\*\*\*\*

Confirm Password  
\*\*\*\*\*

6

Streaming Media Processor

Account

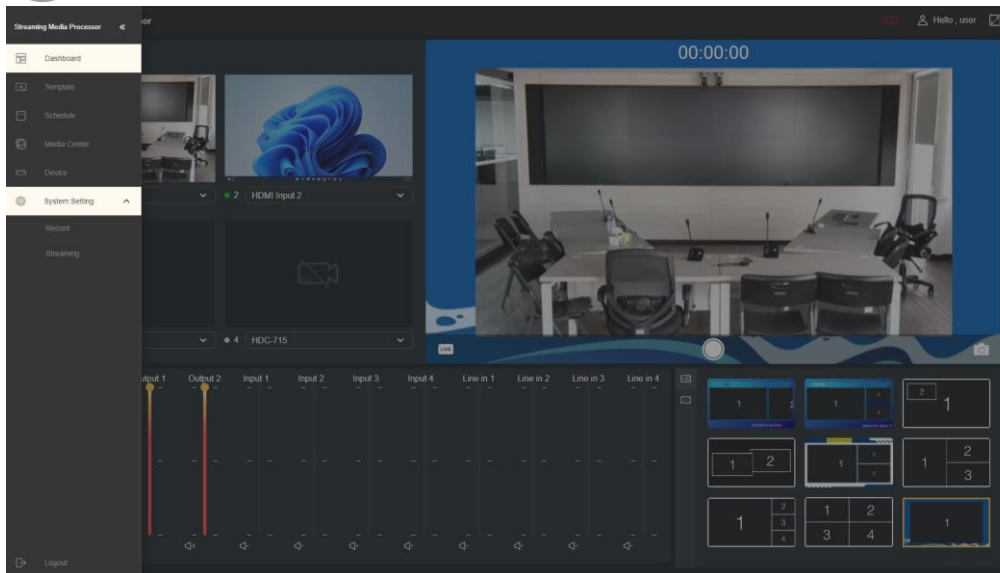
Account	Name	Permission
<input type="checkbox"/>	Account	
<input type="checkbox"/>	admin	Admin
<input type="checkbox"/>	admin	Admin
<input type="checkbox"/>	viewer	Viewer

After entering account and password, click “SAVE” to complete adding new account.

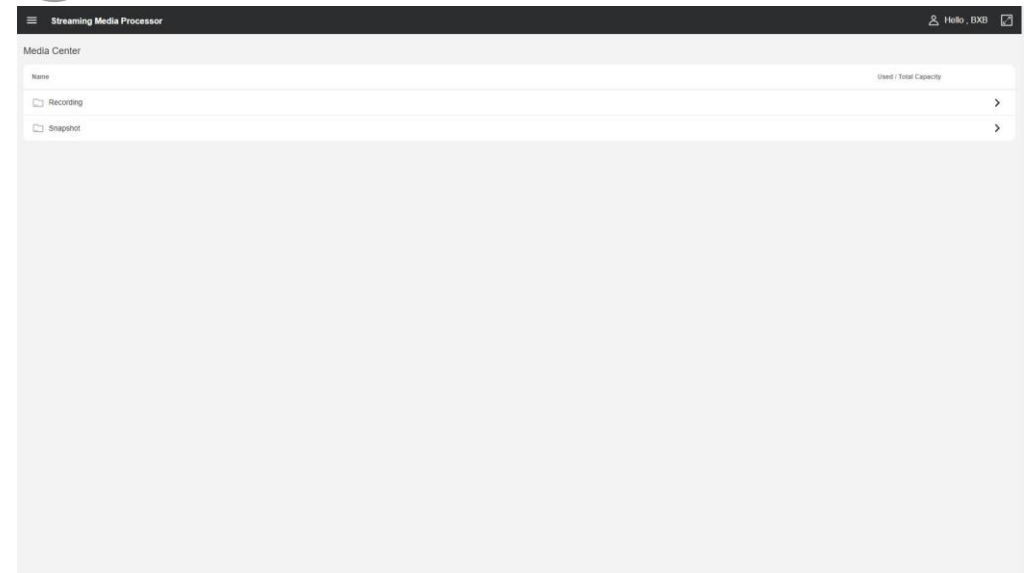
There will be a message indication after completing adding new account and the account information will be added in the list.



7



8



Use new added account to log in the Web UI interface on the browser. If the account authorization is "User", operating function is allowed, but pages such as "System Setting" and "Account" cannot be configured.

If the account authorization is "Viewer", only "Media Center" page can be entered to browse and download recording / snapshot files.

# Panel Operation

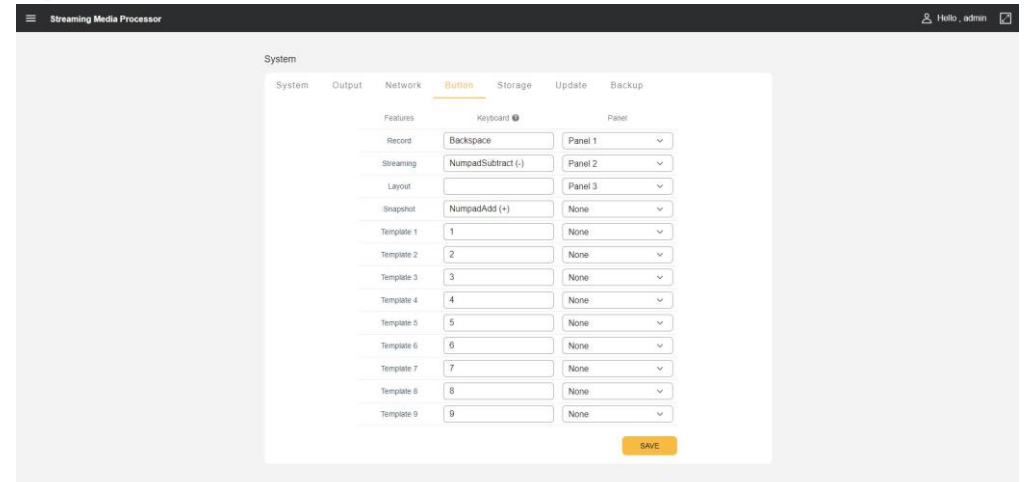
## Definition of Front Panel Button

The front panel of HDR-731 is equipped with three operation buttons to bind the related functions that configured via the Web UI interface, which is quickly to perform functions by just pressing the button.

1



2



There are Panel 1, Panel 2, Panel 3 buttons from left to right. The default functions corresponding with the panel are Record, Live, and Layout.

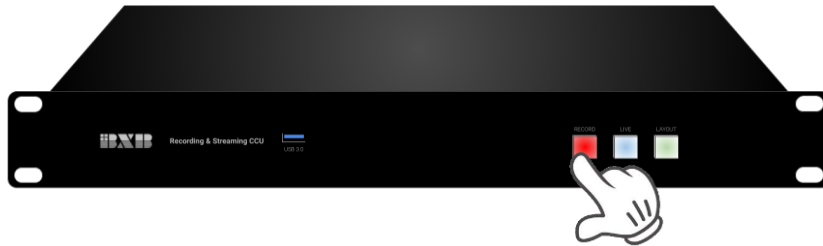
Go to “Button” page of “System” on Web UI interface for function setting (details refer to [Page 123](#)).

# Panel Operation

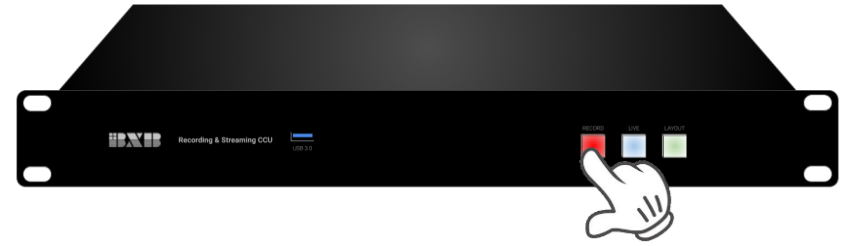
## Definition of Front Panel Button\_Panel 1 Record

The default function of Panel 1 button is recording. You can quickly start / finish recording through operation.

1



2



Short press “Panel 1” to start recording. The red light would be on.

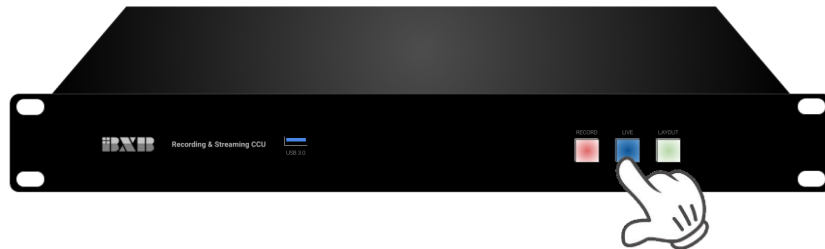
After finishing recording, short press “Panel 1” again. When saving file, the red light will flicker.

# Panel Operation

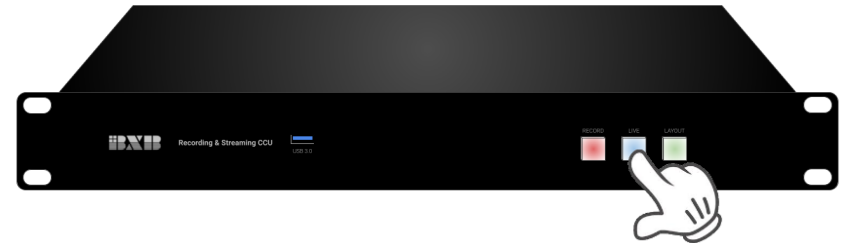
## Definition of Front Panel Button\_Panel 2 Live

The default function of Panel 2 button is live-streaming. You can quickly start / finish live-streaming through operation.

1



2



Short press “Panel 2” button to start live-streaming. The blue light will be on.

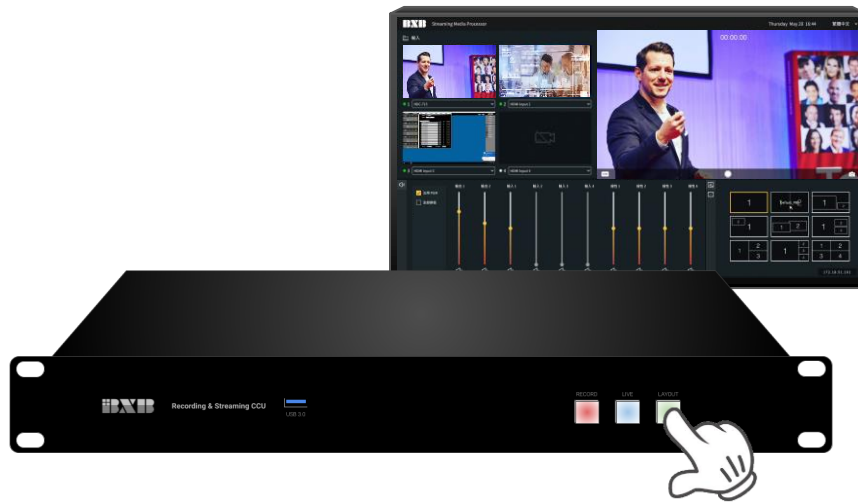
After finishing streaming, short press “Panel 2” again, the blue light will become dimly illuminated as before.

# Panel Operation

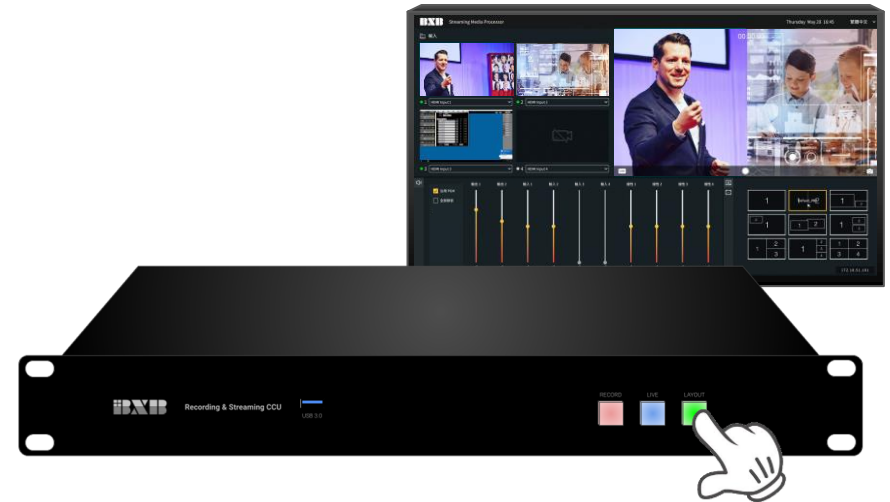
## Definition of Front Panel Button\_Panel 3 Layout

The default function of Panel 3 button is switching layouts. You can switch main layouts from scenes 1 to 9 sequentially through operation.

1



2



Short press “Panel 3” button to switch layouts sequentially.

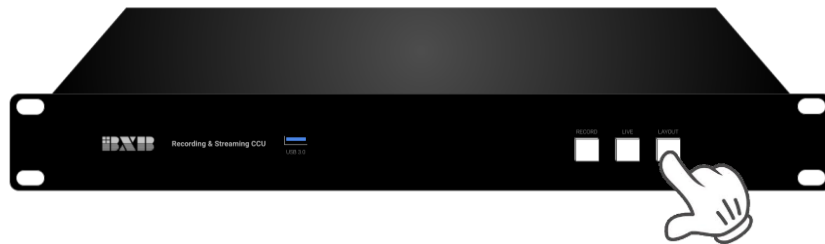
The HDR-731 will switch scenes sequentially.

# Panel Operation

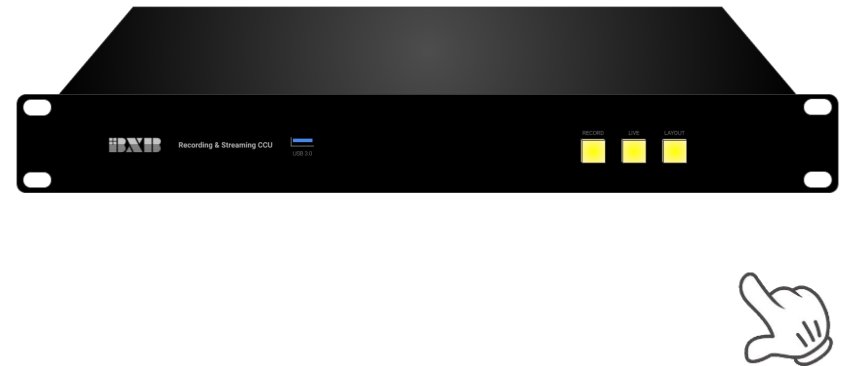
## Restore Factory Default Setting

Operate Panel 3 button to restore factory default setting. In the meantime, all the related settings and files in the internal storage space will be cleared.

1



2



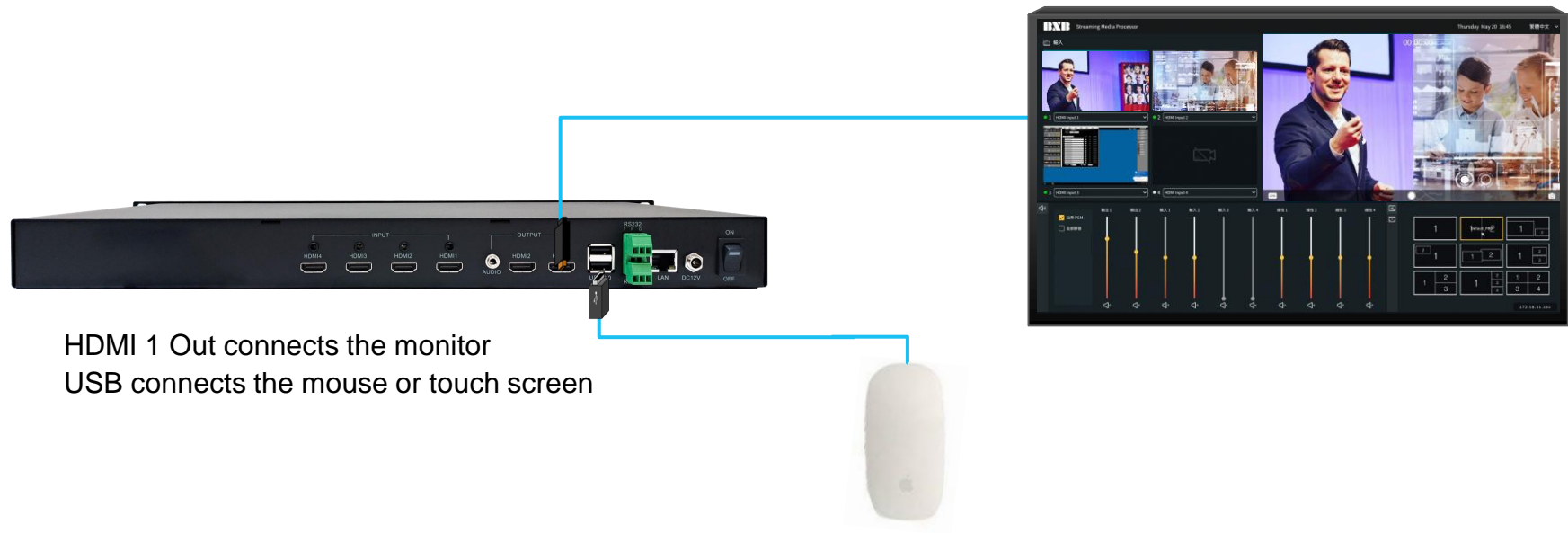
Press and hold “Panel 3” button as turning off HDR-731, then turn on HDR-731.

When the three panel buttons flicker, release “Panel 3” button, HDR-731 will restore factory default setting.

※ HDR-731 storage space will be cleared and recording files are also cleared simultaneously.

# HDMI 1 Director View

HDR-731 HDMI 1 director view page can be operated with OUTPUT HDMI 1 dashboard page in connection with USB mouse or touch screen.



HDMI 1 Out connects the monitor  
USB connects the mouse or touch screen

HDMI 1 Out connects the monitor for real-time monitoring; USB connects a mouse or touch screen for operation and adjustment.

# HDMI 1 Director View

## Set Video Source

You can select HDMI 1 to HDMI 4 signals as the video source; the IP camera in LAN for streaming can also be set as the video source. To add a new camera, you can configure it on “Device” page (details refer to [Page 86](#) ).



Select the required video source in the source selection list. To set camera as the source, it is necessary to go to “Device” page on Web UI interface first for setting.

After selecting the video source, the real-time screen of HDMI 1 and output screen of HDMI 2 will be changed together.



# HDMI 1 Director View

## Layout Switch

Main layouts can be selected for output screen. There are 9 main layouts. To add more, please go to “Template” page for editing (details refer to [Page 25](#)).



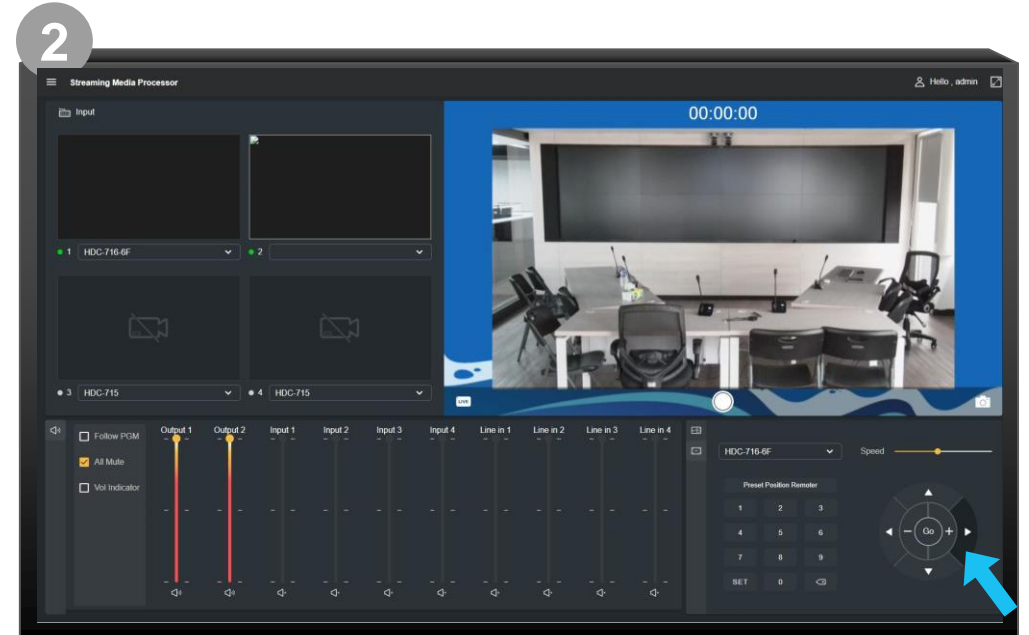
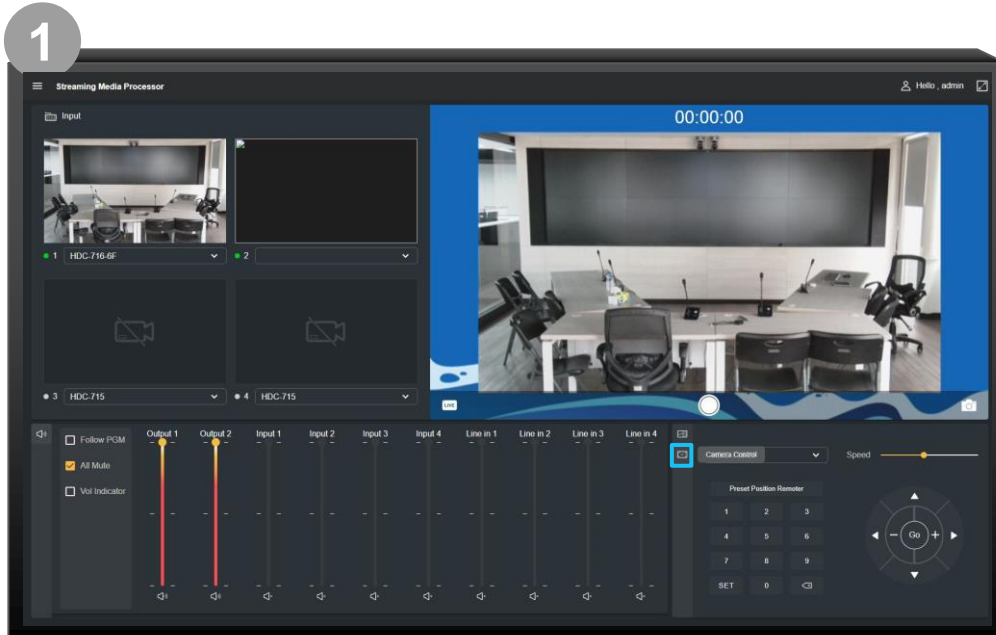
Click the required template in the list to switch layout.

After selecting the template, the layout will be applied to screens of HDMI 2, recording and streaming PGM.

# HDMI 1 Director View

## Camera Control

BXB's HDC-713, HDC-715 and HDC-716 cameras are supported. You can control camera screen and set/call the preset point screen of camera. It is suggested, when switching to camera control page, select camera signal as video source simultaneously to watch the real-time image. New added cameras must be set on "Device" page (details refer to [Page 86](#)).

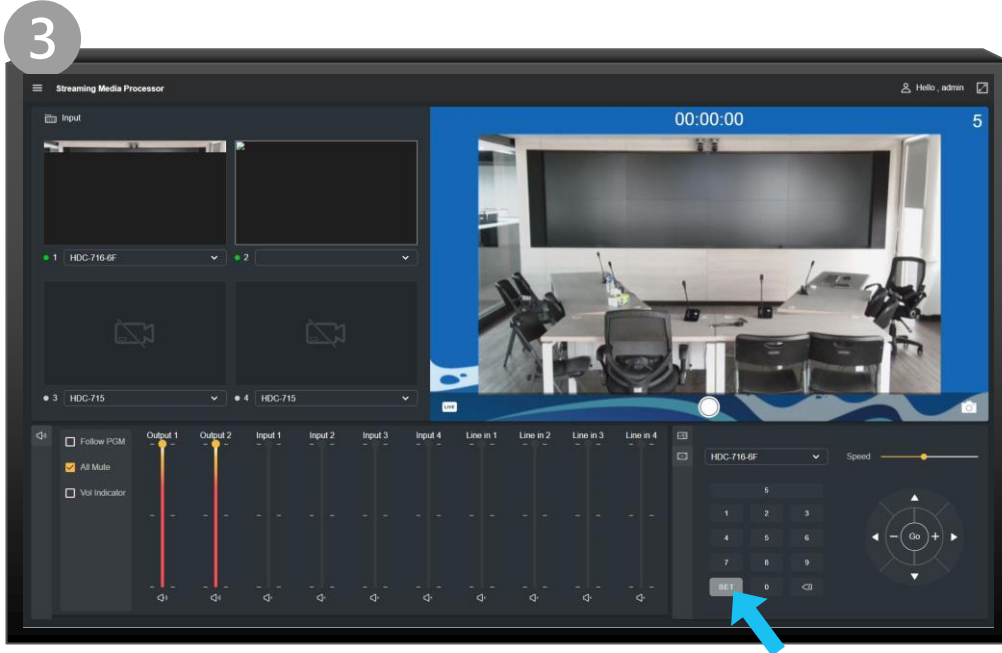


Click the icon to switch to "Camera Control" interface.

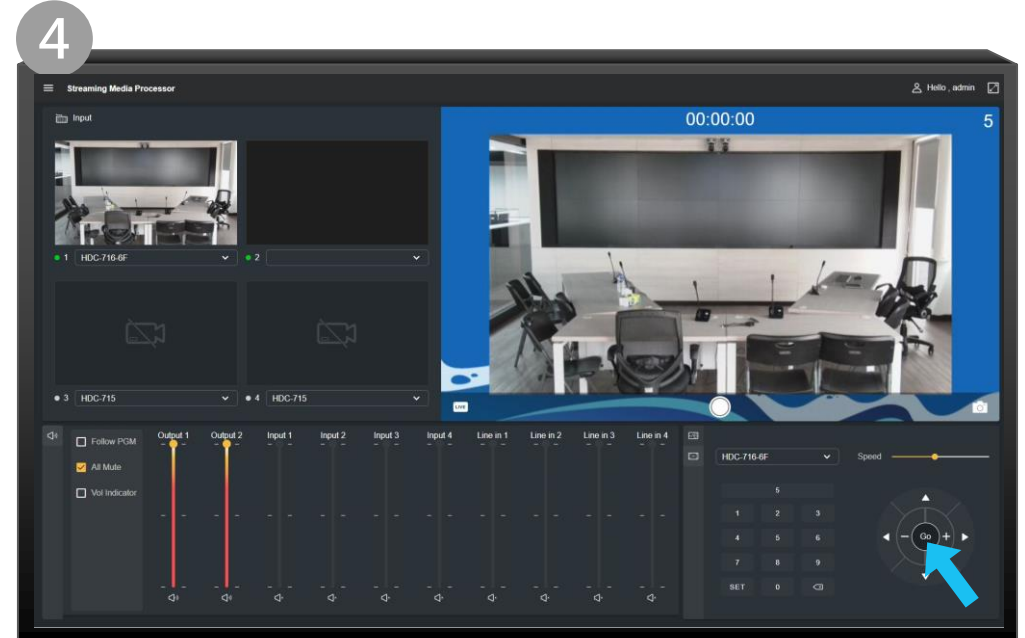
Click up / down / left / right / + / - control keys for camera control.

# HDMI 1 Director View

## Camera Control



Click the number of "Preset Point" and then click "SET" to save the preset point image.



After entering the number of "Preset Point" to be called, click "Go" to go to that preset point image.

# HDMI 1 Director View

## Audio Adjustment

HDR-731 has eight audio inputs and two audio outputs respectively. You can configure the audio of recording, streaming and HDMI output on Dashboard.



Click and drag the bar to adjust the audio volume of the corresponding audio channel.



Click the icon below the audio channel to turn on / off the audio input / output of that channel.

# HDMI 1 Director View

## Audio Adjustment



Enable “Follow PGM” mode, the audio channel will turn on / off based on the corresponding layout selection. By switching layout, HDR-731 will automatically adjust the ON / OFF of the audio channel.



Activate “All Mute” mode, the eight input audio channels will be compulsorily turned off and the eight input audio channels cannot be turned on and their volume cannot be adjusted.

# HDMI 1 Director View

## Recording

The default recording mode is “PGM Output Recording” of single-channel recording. Streaming can be performed simultaneously during recording. The recording mode and resolution can be set on page “Recording” (please refer to [Page 93](#)). If the recording mode is set as “PGM + 4 Inputs”, the streaming would not be performed simultaneously during recording.

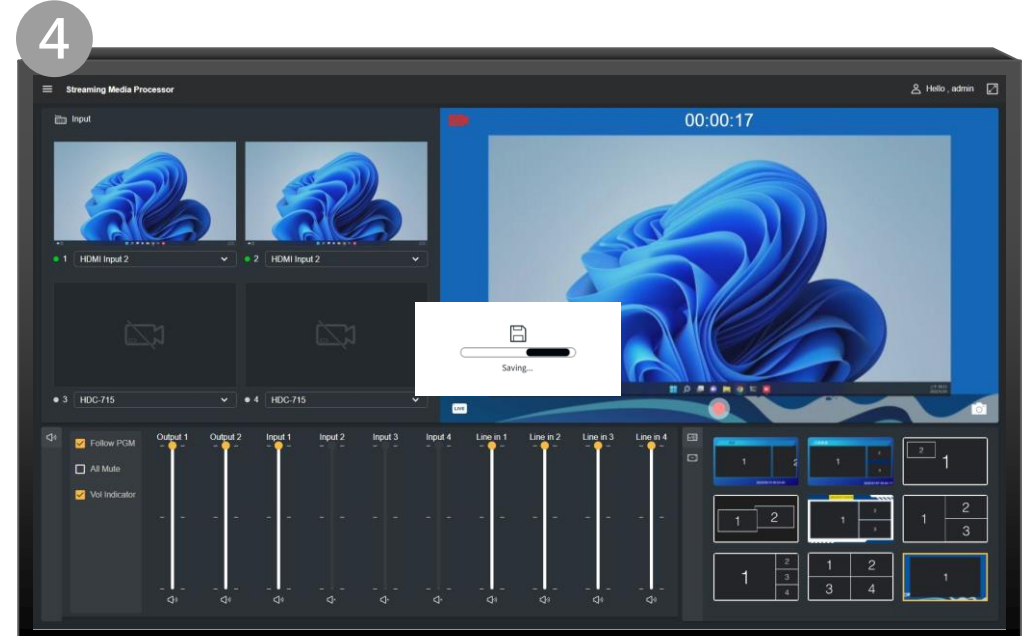


Click the “Record” icon shown on the HDMI real-time screen to start recording.

When the recording is activated successfully, there will be an icon at the top left and the recording time shown at the center of real-time screen.

# HDMI 1 Director View

## Recording



Click “Record” icon again to exit recording.

At the same time, HDR-731 will save the recorded files in the internal storage space. To browse or download them, please go to “Media Center” of Web UI interface.

※ As saving file, please do not unplug the USB 3.0 device or the file saving will be failed.

# HDMI 1 Director View

## Streaming

HDR-731 supports live-streaming platform, HLS, RTMP and RTSP streaming. Before streaming, it is necessary to configure settings on “Streaming” page (refer to [Page 97](#)). After starting streaming, the system will perform live-streaming based on your setting.



Click the icon “LIVE” shown on the HDMI real-time screen to start live-streaming.

When streaming is in progress, icon “LIVE” will be displayed at the left upper corner of the real-time screen.



# HDMI 1 Director View

## Streaming



Click icon “LIVE” again to terminate the live-streaming.

# HDMI 1 Director View

## Snapshot

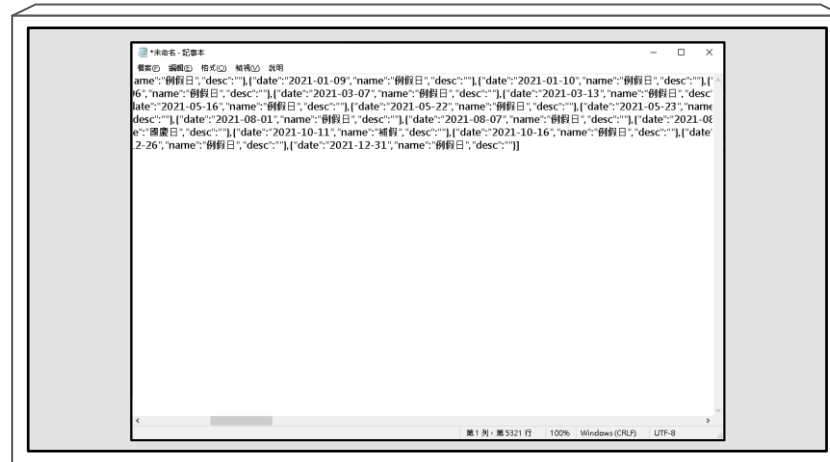
HDR-731 can instantly capture the PGM output screen and save it in the internal storage space.



Click the "Snapshot" icon shown on the real-time screen to capture the PGM output screen. The image file will be saved in the internal storage space. You can browse or download the file at "Media Center" page.

## Example of Holiday Configuration File Setting

You can import json or csv files to apply the holiday information.



Open the Notepad program of PC and follow the instruction below to edit holiday information.

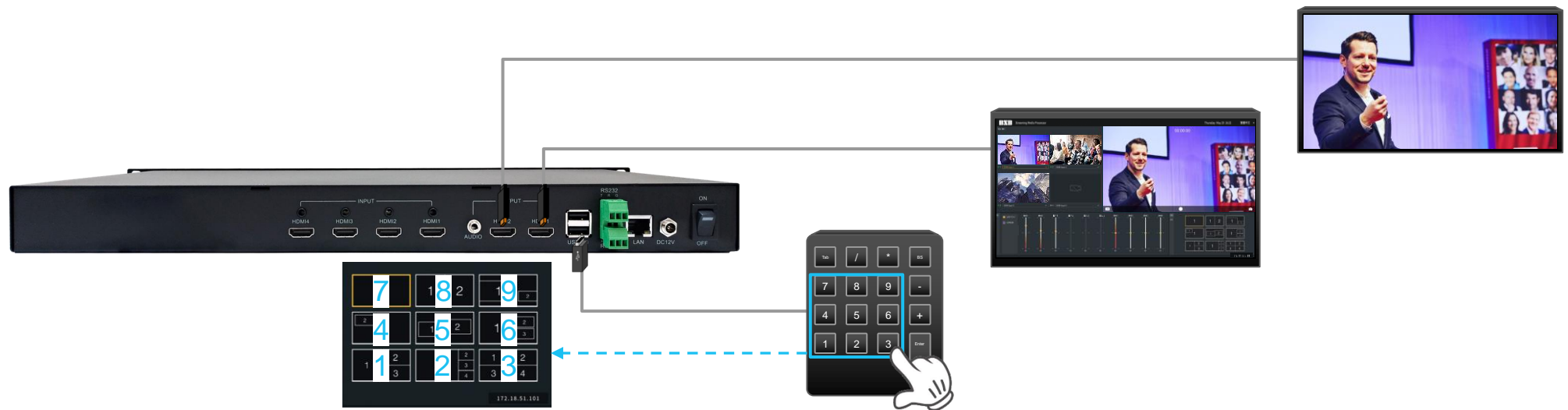
```
{"date": "YYYY-MM-DD", "name": "holiday name", "desc": ""}, {"date": "YYYY-MM-DD", "name": "holiday name", "desc": ""}]
```

After editing, you just save the file as json format.

# Appendix

## Connect USB Keypad

Connect USB keypad with the HDR-731 to quickly perform the related functions.



HDMI 1 output port connects with monitor; USB port with keypad. By pressing the key of the keypad, you can perform the corresponding function. To change the setting of corresponding function of each key, please go to “System Setting” > “System” > “Button”.

# Appendix

## RS-232 / RS-485 Control Protocol

Environmental control equipment can connect with HDR-731's RS-232 or RS-485 port.

### 1 RS-232



### 2 RS-485



<b>Control protocol</b>	RS-232 / RS-485
<b>Baud rate</b>	9600
<b>Data length</b>	8
<b>Parity</b>	None
<b>Stop bit</b>	1
<b>Flow control</b>	None

# Appendix

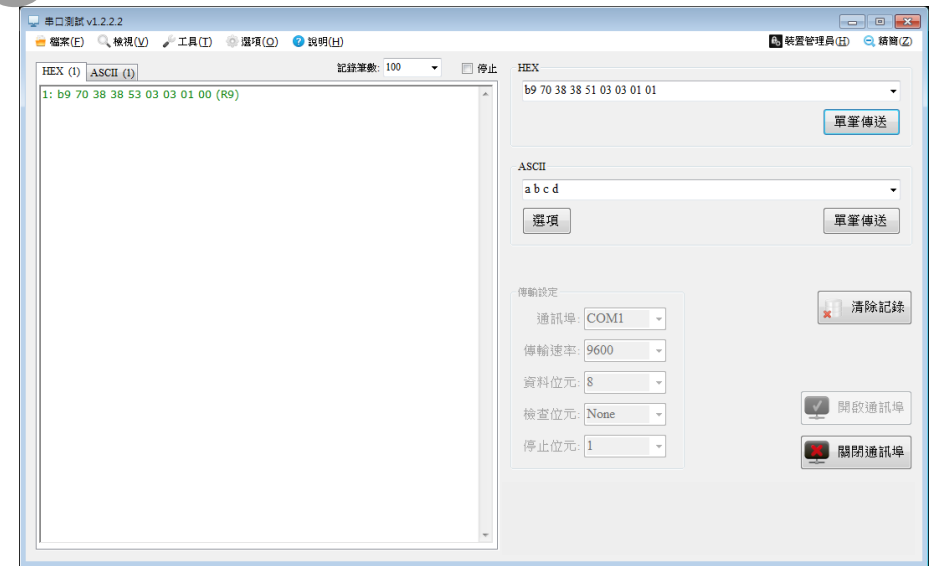
## Example of Protocol Setting

You can control the HDR-731 via RS-232 protocol.

1



2



Example: via RS-232 protocol of PC, you can send the command of "Start Recording" to HDR-731.

Set command: b9 70 38 38 51 03 05 01 01

Response: b9 70 38 38 53 03 05 01 00

Result: the "00" code of response represents the action is performed successfully.

Example: via RS-232 protocol of PC, you can send the command of "Switch to Layout 1" to HDR-731

Set command: b9 70 38 38 51 03 03 01 01

Response: b9 70 38 38 53 03 03 01 00

Result: the "00" code of response represents the action is performed successfully.

## HEX Command Set

Description	CMD	Command Type	Data Length	Data
Reset to factory default	b9703838	51	01	01
Get device info	b9703838	51	02	02 00
Display layout 1	b9703838	51	03	03 01 01
Display layout 2	b9703838	51	03	03 01 02
Display layout 3	b9703838	51	03	03 01 03
Display layout 4	b9703838	51	03	03 01 04
Display layout 5	b9703838	51	03	03 01 05
Display layout 6	b9703838	51	03	03 01 06
Display layout 7	b9703838	51	03	03 01 07
Display layout 8	b9703838	51	03	03 01 08
Display layout 9	b9703838	51	03	03 01 09
Start recording	b9703838	51	03	05 01 01
Stop recording	b9703838	51	03	05 01 00
Get recording state	b9703838	51	02	05 00
Start streaming	b9703838	51	03	06 01 01
Stop streaming	b9703838	51	03	06 01 00
Get streaming state	b9703838	51	02	06 00
PGM snapshot	b9703838	51	03	07 01 00
CH1 snapshot	b9703838	51	03	07 01 01
CH2 snapshot	b9703838	51	03	07 01 02
CH3 snapshot	b9703838	51	03	07 01 03
CH4 snapshot	b9703838	51	03	07 01 04

Description	CMD	Command Type	Data Length	Data
Set HDMI1 output volume	b9703838	51	05	0A 01 01 <b>\$1 \$2</b>
Set HDMI2 output volume	b9703838	51	05	0A 01 02 <b>\$1 \$2</b>
Set HDMI3 output volume	b9703838	51	03	0A 00 01
Set HDMI4 output volume	b9703838	51	03	0A 00 02
Set Follow PGM mode	b9703838	51	05	0B 01 00 00 00
Set audio mixing mode	b9703838	51	05	0B 01 01 00 00
Mute on	b9703838	51	05	0B 01 00 01 00
Mute off	b9703838	51	05	0B 01 00 00 00
Volume indicator on	b9703838	51	05	0B 01 00 00 01
Volume indicator off	b9703838	51	05	0B 01 00 00 00
Get mixing mode state	b9703838	51	02	0B 00
Set HDMI1 input volume	b9703838	51	05	0C 01 01 <b>\$1 \$2</b>
Set HDMI2 input volume	b9703838	51	05	0C 01 02 <b>\$1 \$2</b>
Set HDMI3 input volume	b9703838	51	05	0C 01 03 <b>\$1 \$2</b>
Set HDMI4 input volume	b9703838	51	05	0C 01 04 <b>\$1 \$2</b>
Set Line In 1 volume	b9703838	51	05	0C 01 05 <b>\$1 \$2</b>
Set Line In 2 volume	b9703838	51	05	0C 01 06 <b>\$1 \$2</b>
Set Line In 3 volume	b9703838	51	05	0C 01 07 <b>\$1 \$2</b>
Set Line In 4 volume	b9703838	51	05	0C 01 08 <b>\$1 \$2</b>
Get HDMI 1 input volume	b9703838	51	03	0C 00 01
Get HDMI 2 input volume	b9703838	51	03	0C 00 02
Get HDMI 3 input volume	b9703838	51	03	0C 00 03
Get HDMI 4 input volume	b9703838	51	03	0C 00 04
Get Line In 1 volume	b9703838	51	03	0C 00 05
Get Line In 2 volume	b9703838	51	03	0C 00 06
Get Line In 3 volume	b9703838	51	03	0C 00 07
Get Line In 4 volume	b9703838	51	05	0C 00 08



# Appendix

## HEX Command Chart

**System Ready:** HDR-731 is turned on to receive the protocol data and executes the correspond command successfully.

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 45 01 00

**Reset to factory default:** clear the original settings

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 03 01 01 \$1
<b>Response</b>	b9 70 38 38 53 01 \$1
<b>Remark</b>	\$1 Restore network setting : 00 not restore network setting; 01 restore network setting \$2 State code: 00 valid; 07 system busy; 0C execution error

**Get device info:** get the information of the firmware version

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 02 02 00
<b>Response</b>	b9 70 38 38 53 06 02 00 00 \$1
<b>Remark</b>	\$1 Version no.: if the system response is b9 70 38 38 53 06 02 00 00 02 00 02, it represents the version 2.0.2

**Switch layout:** key in the correspond command to switch the layout.

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 03 03 01 \$1
<b>Response</b>	b9 70 38 38 53 03 03 01 \$2
<b>Remark</b>	\$1 Layout number 01~09: layout 1-layout 9 \$2 State code: 00 valid; 02 error code; 03 no layout; 07 system busy; 0C execution error

**Get layout state:** get the layout applied right now.

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 02 03 00
<b>Response</b>	b9 70 38 38 53 04 03 00 00 \$1
<b>Remark</b>	\$1 Layout number 01~09: layout 1-layout 9

**Layout switch notice:** when layout switch is operated by Web UI dashboard and USB keyboard, the system will give a notification.

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 45 02 03 \$1
<b>Remark</b>	\$1 Layout number 01~09: layout 1-layout 9

**Recording:** start / stop recording

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 03 05 01 \$1
<b>Response</b>	b9 70 38 38 53 03 05 01 \$2
<b>Remark</b>	\$1 command: 00 stop recording; 01 start recording \$2 State code: 00 valid; 02 error code; 03 no layout; 07 system busy; 0C execution error

**Get recording state:** get the present recording state

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 02 05 00
<b>Response</b>	b9 70 38 38 53 04 05 00 00 \$1
<b>Remark</b>	\$1 State code: 00 stop recording; 01 start recording; 02 file saving

**Notice of changing recording state:** when start / stop recording is operated by Web UI dashboard and USB keyboard, the system will give a notification.

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 45 02 05 \$1
<b>Remark</b>	\$1 State code: 00 stop recording; 01 start recording

**Streaming:** start / stop streaming

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 03 06 01 \$1
<b>Response</b>	b9 70 38 38 53 03 06 01 \$2
<b>Remark</b>	\$1 Command: 00 stop streaming; 01 start streaming \$2 State code: 00 valid; 02 error code; 04 switch forbidden while recording; 07 system busy; 0C execution error

**Get streaming state:** get the present streaming state

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 02 06 00
<b>Response</b>	b9 70 38 38 53 04 06 00 00 \$1
<b>Remark</b>	\$1 State code: 00 stop streaming; 01 start streaming

**Notice of changing streaming state:** when start / stop streaming is operated by Web UI dashboard and USB keyboard, the system will give a notification.

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 45 02 06 \$1
<b>Remark</b>	\$1 State code: 00 stop streaming; 01 start streaming

# Appendix

## HEX Command Chart

**Snapshot:** perform snapshot function

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 03 07 01 \$1
<b>Response</b>	b9 70 38 38 53 03 07 01 \$2
<b>Remark</b>	\$1 Snapshot channel: 00 PGM; 01~04 = CH1~CH4 \$2 State code: 00 valid; 02 error code; 0C execution error

**Audio output:** control the volume of HDMI 1, HDMI 2, and line out audio

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 05 0A 01 \$1 \$2 \$3
<b>Response</b>	b9 70 38 38 53 03 0A 01 \$4
<b>Remark</b>	\$1 Output channel: 01 HDMI 1; 02 HDMI 2 & 3.5 Line Out \$2 Volume: 00~64 corresponding volume 00~100 \$3 Mute: 01 mute on; 00 mute off \$4 State code: 00 valid; 02 error code; 0C execution error

**Get audio output state:** check the volume of HDMI 1, HDMI 2, and line out audio

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 03 0A 00 \$1
<b>Response</b>	b9 70 38 38 53 06 0A 00 00 \$1 \$2 \$3
<b>Remark</b>	\$1 Output channel: 01 HDMI 1; 02 HDMI 2 & 3.5 Line Out \$2 Volume: 00~64 corresponding volume 00~100 \$3 Mute: 01 mute on; 00 mute off

# Appendix

## HEX Command Chart

**Notice of changing audio output:** when changing the audio output is modified by Web UI dashboard, the system will give a notification.

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 45 04 0A \$1 \$2 \$3
<b>Remark</b>	\$1 Output channel: 01 HDMI 1; 02 HDMI 2 & 3.5 Line Out \$2 Volume: 00~64 corresponding volume 00~100 \$3 Mute: 01 mute on; 00 mute off

**Audio mixing mode:** change the settings of audio mixing, mute, and volume indicator switch

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 05 0B 01 \$1 \$2 \$3
<b>Response</b>	b9 70 38 38 53 03 0B 01 \$4
<b>Remark</b>	\$1 Audio mixing mode: 00 Follow PGM; 01 all-mixing \$2 All mute: 00 mute off; 01 mute on \$3 Volume indicator switch: 00 Off; 01 On \$4 State code: 00 valid; 02 error code; 07 system busy; 0C execution error

**Get audio mixing state:** get the settings of audio mixing, mute, and volume indicator switch

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 02 0B 00
<b>Response</b>	b9 70 38 38 53 06 0B 00 00 \$1 \$2 \$3
<b>Remark</b>	\$1 Audio mixing mode: 00 Follow PGM; 01 all-mixing \$2 All mute: 00 mute off; 01 mute on \$3 Volume indicator switch: 00 Off; 01 On

**Notice of change audio mixing mode:** when changing the audio output is operated by Web UI dashboard, the system will give a notification.

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 45 04 0B \$1 \$2 \$3
<b>Remark</b>	\$1 Audio mixing mode: 00 Follow PGM; 01 all-mixing \$2 All mute: 00 mute off; 01 mute on \$3 Volume indicator switch: 00 Off; 01 On

**Audio input:** configure the volume setting of 8CH audio inputs

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 05 0C 01 \$1 \$2 \$3
<b>Response</b>	b9 70 38 38 53 03 0C 01 \$4
<b>Remark</b>	\$1 Output channel: 01~04 Input 1~Input 4; 05~08 Line 1~Line 4 \$2 Volume: 00~64 Corresponding volume 00~100 \$3 Mute: 00 mute off; 01 mute on \$4 State code: 00 valid; 02 error code; 0C execution error

**Get the audio input state:** check the volume setting of 8CH audio inputs

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 03 0C 00 \$1
<b>Response</b>	b9 70 38 38 53 06 0C 00 00 \$1 \$2 \$3
<b>Remark</b>	\$1 Output channel: 01~04 Input 1~Input 4; 05~08 Line 1~Line 4 \$2 Volume: 00~64 Corresponding volume 00~100 \$3 Mute: 00 mute off; 01 mute on

**Get the audio input state** : check the volume setting of 8CH audio inputs

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 03 0C 00 \$1
<b>Response</b>	b9 70 38 38 53 06 0C 00 00 \$1 \$2 \$3
<b>Remark</b>	<p>\$1 Output channel: 01~04 Input 1~Input 4; 05~08 Line 1~Line 4</p> <p>\$2 Volume: 00~64 Corresponding volume 00~100</p> <p>\$3 Mute: 00 mute off; 01 mute on</p>

**Notice of changing audio input**: when changing the audio input is modified by Web UI dashboard, the system will give a notification.

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 45 04 0C \$1 \$2 \$3
<b>Remark</b>	<p>\$1 Output channel: 01~04 Input 1~Input 4; 05~08 Line 1~Line 4</p> <p>\$2 Volume: 00~64 Corresponding volume 00~100</p> <p>\$3 Mute: 00 mute off; 01 mute on</p>

**Sleep mode**: set sleep mode ON / OFF

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 03 10 01 \$1
<b>Response</b>	b9 70 38 38 53 03 10 01 \$2
<b>Remark</b>	<p>\$1 Sleep mode: 01 ON; 00 OFF</p> <p>\$2 State code: 00 valid; 02 error code; 0C execution error</p>



**Notice sleep mode state:** when changing the sleep mode via Web UI dashboard, the system will give a notification.

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 45 02 10 \$1
<b>Remark</b>	\$1 Sleep mode state: 01 ON; 00 OFF

**Set display mode:** set the display mode of HDMI 1 output

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 03 09 01 \$1
<b>Response</b>	b9 70 38 38 53 03 09 01 \$2
<b>Remark</b>	\$1 Display mode: 00 Mouse mode; 01 Touch mode; 02 Quad-view; 03 PGM; 04~07 = Source 1~Source 4 \$2 State code: 00 valid; 02 error code; 0C execution error

**Notice of hard disk state:** notification of HDR-731 storage space

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 45 02 OD \$1
<b>Remark</b>	\$1 Hard disk status: 00 Sufficient; 01 the available storage space is lower than 20%; 02 insufficient; 03 unable to detect the device

**Get hard disk status:** check the condition of HDR-731 storage space

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 02 0D 00
<b>Response</b>	b9 70 38 38 53 04 0D 00 00 \$1
<b>Remark</b>	\$1 Hard disk status: 00 Sufficient; 01 the available storage space is lower than 20%; 02 insufficient; 03 unable to detect the device

**Get USB saving status:** check the storage status of the external USB drive

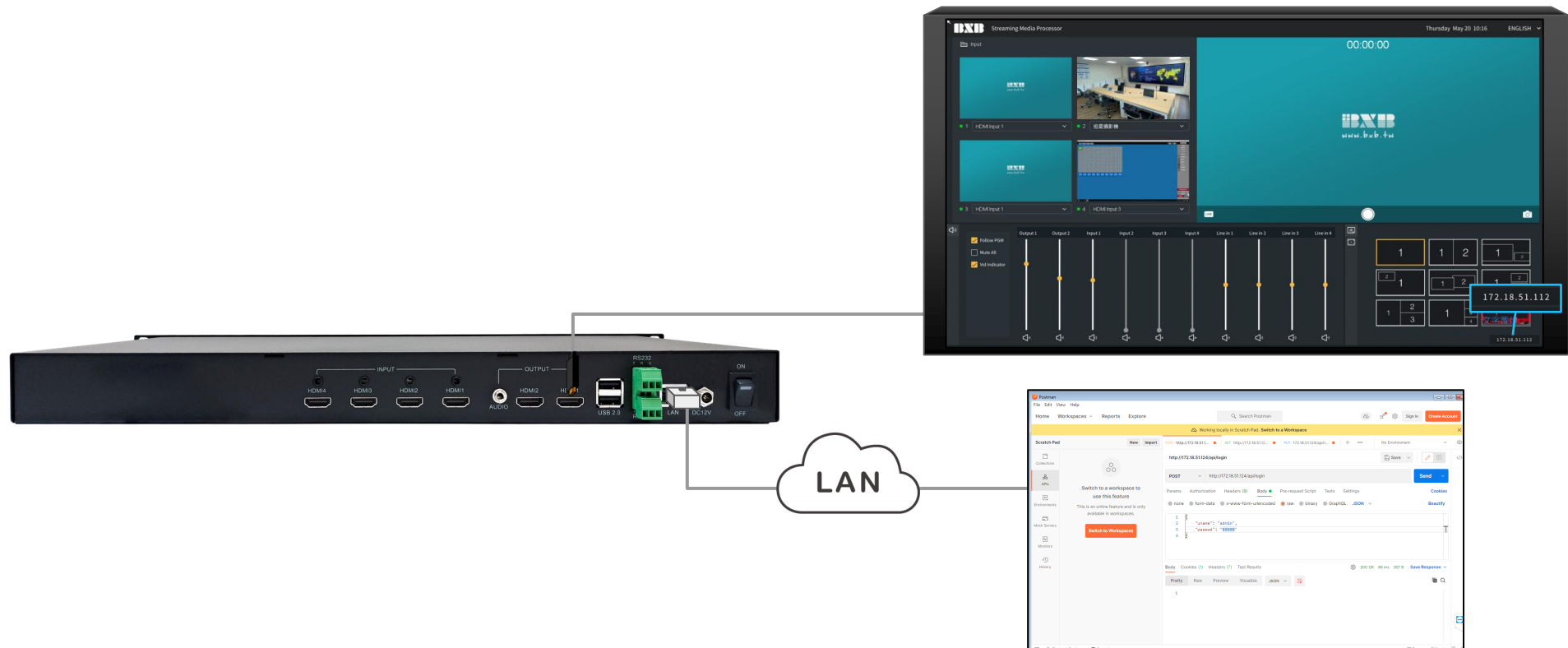
<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 51 02 0E 00
<b>Response</b>	b9 70 38 38 53 04 0E 00 00 \$1
<b>Remark</b>	\$1 Storage status: 00 file saving is completed; 01 file saving is in progress

**Notice of USB saving status:** the status of saving recording files to the external USB drive

<b>Action</b>	HEX command
<b>Command</b>	b9 70 38 38 45 02 0E \$1
<b>Remark</b>	\$1 Storage status: 00 file saving is completed; 01 file saving is in progress

# Appendix

## Connect Environmental Control Equipment



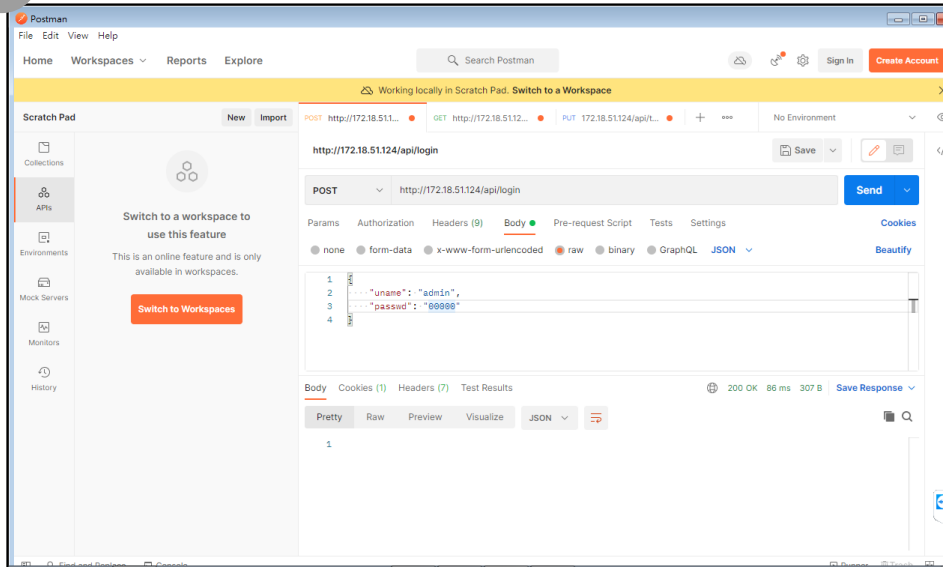
HDR-731 Web API uses “RESET” principle. Via Web API communication, you can get HDR-731 data and change settings.

# Appendix

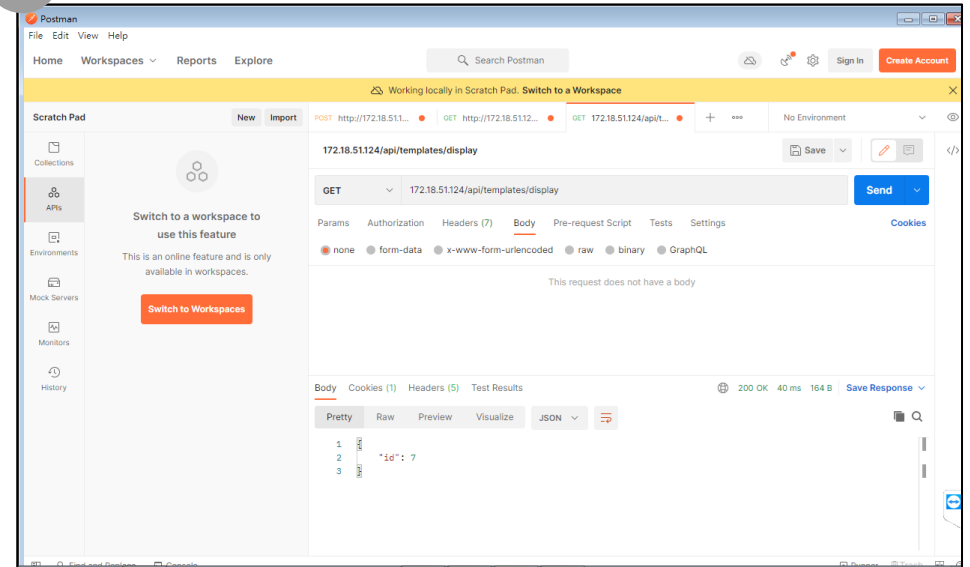
## Example of Web API Communication

Use Postman program of PC to communicate with the HDR-731

1



2



Example: Run Postman to check login information

POST `http://HDR-731 IP/api/login`

```
{
  "uname": "admin",
  "passwd": "00000"
}
```

Status response: HTTP status code "200 OK" represents "Success"

Example: Run Postman to get the template ID.

GET `172.18.51.124/api/templates/display`

Status response: HTTP status code "200 OK" represents "Success"

```
{
  "id": 7
}
```

Current template ID: 7

<b>Action</b>	Log in
<b>Method</b>	POST
<b>URL</b>	{HDR-731 address}/api/login
<b>Request</b>	<pre>{   uname: 'admin',   passwd: '00000' }</pre>
<b>Response</b>	
<b>Status code</b>	<ul style="list-style-type: none"> <li>● 400 Bad Request “error code”</li> <li>● 401 Unauthorized “incorrect account name or password”</li> </ul>
<b>Remark</b>	
<b>Action</b>	Ask login status
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/login/status
<b>Request</b>	
<b>Response</b>	<pre>{   permission: 1,   session: '36eec59a69ef0bd547b45464eaebb347f4f66009',   alias: 'admin', }</pre>
<b>Status code</b>	
<b>Remark</b>	

# Appendix

## Web API Chart

<b>Action</b>	Get account information
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/accounts
<b>Request</b>	
<b>Response</b>	<pre>[   {     id: 2,     uname: 'admin'     alias:'admin',     permission: 1   } ]</pre>
<b>Status code</b>	
<b>Remark</b>	permission "Account permission": 1 Admin; 2 User; 3 Viewer
<b>Action</b>	Log out
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/logout
<b>Request</b>	
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	

<b>Action</b>	Get sleep mode status
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/system/sleep
<b>Request</b>	
<b>Response</b>	true   false
<b>Status code</b>	
<b>Remark</b>	true: sleep mode ON; false: sleep mode OFF
<b>Action</b>	Activate sleep mode
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/system/on
<b>Request</b>	
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	
<b>Action</b>	Deactivate sleep mode
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/system/off
<b>Request</b>	
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	

<b>Action</b>	Get video input source information
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/screens
<b>Request</b>	
<b>Response</b>	<pre>[   {     "audio": 0,     "fps": 60.0,     "height": 1080,     "id": 1,     "input": 1,     "media": 2,     "signal": true,     "width": 1920   },.... ]</pre>
<b>Status code</b>	
<b>Remark</b>	<p>Able to get each input (4CH) status</p> <p>Audio source: 0 original source; 1 Line out</p> <p>fps: frame rate</p> <p>height: height</p> <p>id: input ID</p> <p>input: input source</p> <p>signal: true input source detected; false no input source detected</p> <p>width: width</p>



<b>Action</b>	Get specific input information
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/screens/{screens ID}
<b>Request</b>	
<b>Response</b>	<pre>{   "audio": 0,   "fps": 60.0,   "height": 1080,   "id": 1,   "input": 1,   "media": 2,   "signal": true,   "width": 1920 }</pre>
<b>Status code</b>	
<b>Remark</b>	<p>{screens ID} : 1 Input 1; 2 Input 2; 3 Input 3; 4 Input 4 Audio source: 0 original source; 1 Line out fps: frame rate height: height id: input ID input: input source signal: true input source detected; false no input source detected width: width</p>

<b>Action</b>	Modify specific input source
<b>Method</b>	PATCH
<b>URL</b>	{HDR-731 address}/api/screens/{screens ID}
<b>Request</b>	{ "input": 2 }
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	{screens ID} : 1 Input 1; 2 Input 2; 3 Input 3; 4 Input 4 input: input ID 1 HDMI In 1; 2 HDMI In 2; 3 HDMI In 3; 4 HDMI Input 4; 5 Streaming device 1...
<b>Action</b>	Get specific HDMI out information
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/outputs/{ID}
<b>Request</b>	
<b>Response</b>	{ "fps": 60, "mode": 0, "mute": false, "volume": 50 }
<b>Status code</b>	
<b>Remark</b>	{ ID } : 1 HDMI In 1; 2 HDMI In 2 fps: frame rate Operation mode: 0 Mouse mode; 1 Touch mode; 2 Quad-view; 3 PGM; 4 Input 1; 5 Input 2; 6 Input 3; 7 Input 4 Mute: false "OFF"; true "ON" volume "Output volume": 0~100 "0 db ~ 100 db"

<b>Action</b>	Get HDMI out information
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/outputs
<b>Request</b>	
<b>Response</b>	<pre>[   {     "fps": 60,     "id": 1,     "mode": 0,     "mute": false,     "volume": 50   },...</pre>
<b>Status code</b>	
<b>Remark</b>	<p>Get information of HDMI out 1 and HDMI out 2</p> <p>fps: frame rate</p> <p>ID: 1 HDMI Out 1; 2 HDMI Out 2</p> <p>Operation mode: 0. Mouse mode; 1 Touch mode; 2 Quard-view; 3 PGM; 4 Input 1; 5 Input 2; 6 Input 3; 7 Input 4</p> <p>Mute: false "OFF"; true "ON"</p> <p>volume "Output volume": 0~100 "0 db ~ 100 db"</p>

<b>Action</b>	Modify specific HDMI output source
<b>Method</b>	PATCH
<b>URL</b>	{HDR-731 address}/api/outputs/{ID}
<b>Request</b>	<pre>{   "fps": 60,   "mode": 0,   "mute": false,   "volume": 100 }</pre>
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	<p>ID: 1 HDMI Out 1; 2 HDMI Out 2</p> <p>fps: frame rate</p> <p>Operation mode: 0. Mouse mode; 1 Touch mode; 2 Quard-view; 3 PGM; 4 Input 1; 5 Input 2; 6 Input 3; 7 Input 4</p> <p>Mute: false "OFF"; true "ON"</p> <p>volume "Output volume": 0~100 "0 db ~ 100 db"</p>

<b>Action</b>	Get specific input screen
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/input/{ID}/view
<b>Request</b>	
<b>Response</b>	Input screen preview
<b>Status code</b>	
<b>Remark</b>	{ID} : 1 Input 1; 2 Input 2; 3 Input 3; 4 Input 4

<b>Action</b>	Get marked template information
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/templates/favorites
<b>Request</b>	
<b>Response</b>	<pre>[   {     "id": 1,     "name": "Default_Full"   },   {     "id": 2,     "name": "Default_PBP"   },...</pre>
<b>Status code</b>	
<b>Remark</b>	ID: template ID

<b>Action</b>	Get unmarked template information
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/templates
<b>Request</b>	
<b>Response</b>	<pre>[   {     "id": 15,     "name": "BXB1"   },   {     "id": 27,     "name": "BXB2"},...</pre>
<b>Status code</b>	
<b>Remark</b>	ID: template ID

<b>Action</b>	Get current template information
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/templates/display
<b>Request</b>	
<b>Response</b>	<pre>{   "id": 1 }</pre>
<b>Status code</b>	
<b>Remark</b>	ID: template ID

<b>Action</b>	Layout switch
<b>Method</b>	PUT
<b>URL</b>	{HDR-731 address}/api/templates/display
<b>Request</b>	<pre>{   "id": 15 }</pre>
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	ID: template ID

<b>Action</b>	View specific template information
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/template/{ID}/view
<b>Request</b>	
<b>Response</b>	Template preview
<b>Status code</b>	
<b>Remark</b>	{ID} : template ID
<b>Action</b>	Get recording information
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/records
<b>Request</b>	
<b>Response</b>	[ <pre>       {         "duration": 5,         "elapsed": 0,         "enable": true,         "encoder": 1,         "filename": "PGM_Record",         "id": 1,         "name": "PGM Record",         "running": false,         "storage": "sata"       },...</pre>
<b>Status code</b>	
<b>Remark</b>	running: false Not recording; true Recording

# Appendix

## Web API Chart

<b>Action</b>	Get the information of specific recording input
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/records/{ID}
<b>Request</b>	
<b>Response</b>	<pre>{   "duration": 5,   "elapsed": 0,   "enable": true,   "encoder": 1,   "filename": "PGM_Record",   "id": 1,   "name": "PGM Record",   "running": false,   "storage": "sata" }</pre>
<b>Status code</b>	
<b>Remark</b>	running: false Not recording; true Recording

<b>Action</b>	Start recording
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/records/0/on
<b>Request</b>	
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	



<b>Action</b>	Stop recording
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/records/0/off
<b>Request</b>	
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	

<b>Action</b>	Get streaming information
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/streaming
<b>Request</b>	
<b>Response</b>	[ <pre>       {         "enable": true,         "id": 2,         "name": "Streaming 1",         "running": false,         "type": 3       },...</pre>
<b>Status code</b>	
<b>Remark</b>	Only PGM streaming supported right now running: false Not streaming; true Streaming

<b>Action</b>	Start streaming
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/streaming/0/on
<b>Request</b>	
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	Only PGM streaming supported right now

<b>Action</b>	Stop streaming
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/streaming/0/off
<b>Request</b>	
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	

<b>Action</b>	Snapshot
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/screens/{ID}/snapshot
<b>Request</b>	
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	ID: 0 PGM; 1 Input 1; 2 Input 2; 3 Input 3; 4 Input 4

<b>Action</b>	Preview PGM snapshot
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/inputs/0/snapshot
<b>Request</b>	
<b>Response</b>	Preview PGM snapshot
<b>Status code</b>	
<b>Remark</b>	Saving the snapshot files is not available with this function

<b>Action</b>	Stop streaming
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/streaming/0/off
<b>Request</b>	
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	

<b>Action</b>	Get mixer information
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/mixer
<b>Request</b>	
<b>Response</b>	<pre>{   "indicator": false,   "mode": 0,   "silence": false }</pre>
<b>Status code</b>	
<b>Remark</b>	Mode: 0 Follow PGM; 1 mix all

<b>Action</b>	Modify mixing mode
<b>Method</b>	PATCH
<b>URL</b>	{HDR-731 address}/api/mixer
<b>Request</b>	<pre>{   "indicator": false,   "mode": 1,   "silence": false }</pre>
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	Mode: 0 Follow PGM; 1 mix all

# Appendix

## Web API Chart

<b>Action</b>	Get specific audio in information
<b>Method</b>	GET
<b>URL</b>	{HDR-731 address}/api/mixer{ID}
<b>Request</b>	
<b>Response</b>	<pre>{   "delay": 0,   "enable": true,   "mute": false,   "toMixer": true,   "toRecord": true,   "volume": 50 }</pre>
<b>Status code</b>	
<b>Remark</b>	volume : 0~100 “0 db ~ 100 db”

<b>Action</b>	Modify specific audio in information
<b>Method</b>	PATCH
<b>URL</b>	{HDR-731 address}/api/mixer{ID}
<b>Request</b>	<pre>{   "enable": true,   "mute": false,   "volume": 50 }</pre>
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	Enable “Mixing mode”: true Mixing ON; false Mixing OFF Mute: false “OFF”; true “ON” Volume: 0~100 “0 db ~ 100 db”

<b>Action</b>	Modify recording setting
<b>Method</b>	PUT
<b>URL</b>	{HDR-731 address}/api/records/1
<b>Request</b>	<pre>{   "duration": 5,   "enable": true,   "encoder": 1,   "filename": "PGM",   "name": "PGM_RECORD",   "storage": "sata" }</pre>
<b>Response</b>	
<b>Status code</b>	
<b>Remark</b>	<p><b>duration</b> Video length: 5 5 mins; 30 30 mins; 60 1 hour; 120 2 hours <b>encoder</b> Resolution: 1 Low ; 2 Medium ; 3 High ; 4 Very High <b>filename</b> File name: "file name"</p>



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