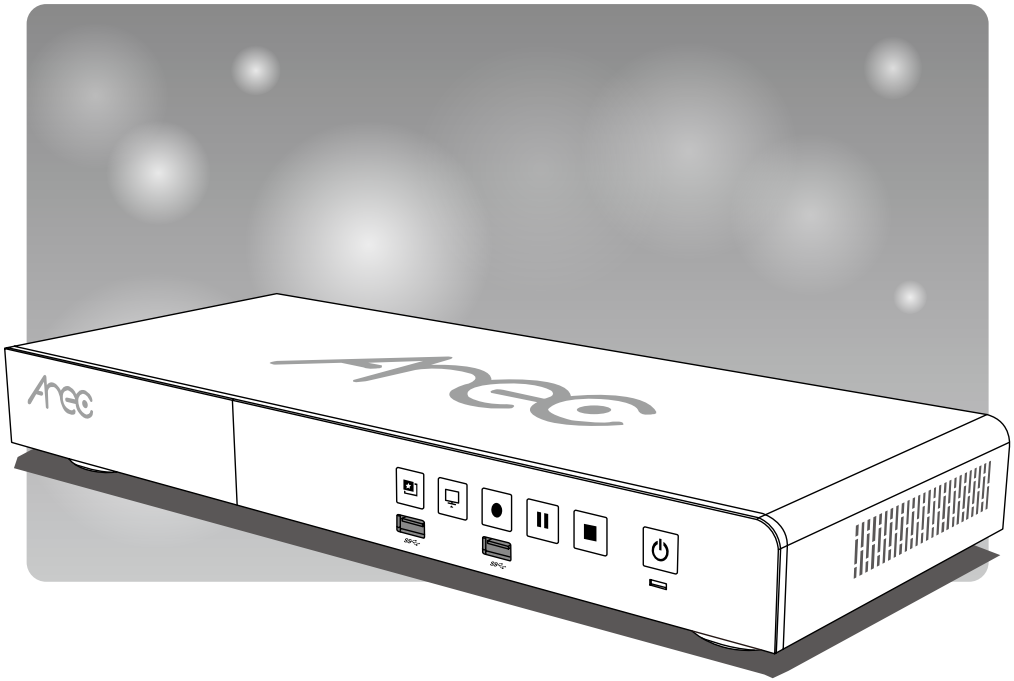
LS-310F

Media Station

User Manual | English



ADENA Limited I www.a-dena.com
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All information contained in this document is Proprietary

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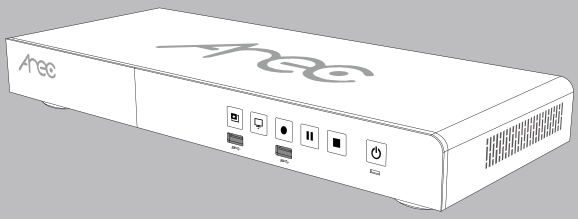
Introduction

LS-310F is a mid-range Media Station optimised for Full HD recording and streaming. Its 3 video channels allow using up to 3 cameras, computers, and other video devices and inputs simultaneously. This versatility, plentiful control options and integrations make it ideally suited for lecture capture, training and meeting recording, and other purposes.

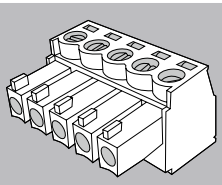
Specifications

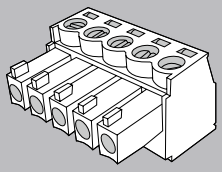
Product Name	Media Station
Model Name	LS-310F
Dimension	401mm(L) x 167mm(W) x 54mm(H)
Weight	2250g
Power Requirement	12V/3.34A
Power Consumption (Max.)	40W (Max.)
Operating Temperature / Humidity	0°C ~ 40°C/90%

Package Contents



AREC LS-310F Media Station

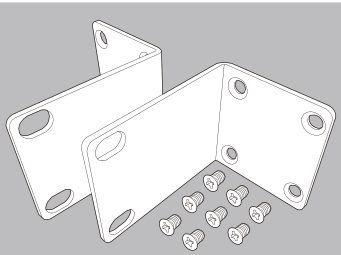




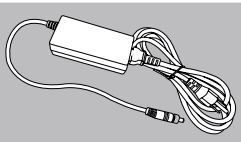
Terminal Block



Quick Installation Guide



Ear Mount*

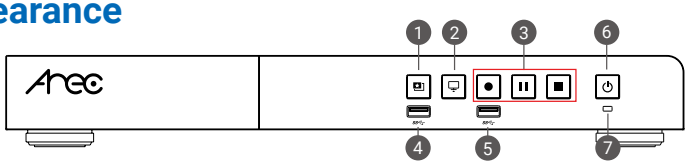


Power Adapter

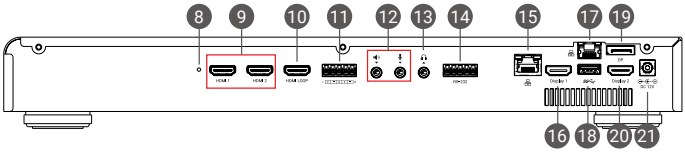
* Ear Mount. For mounting AREC Media Station in 19-inch 1U rack height.

Product Appearance

Front

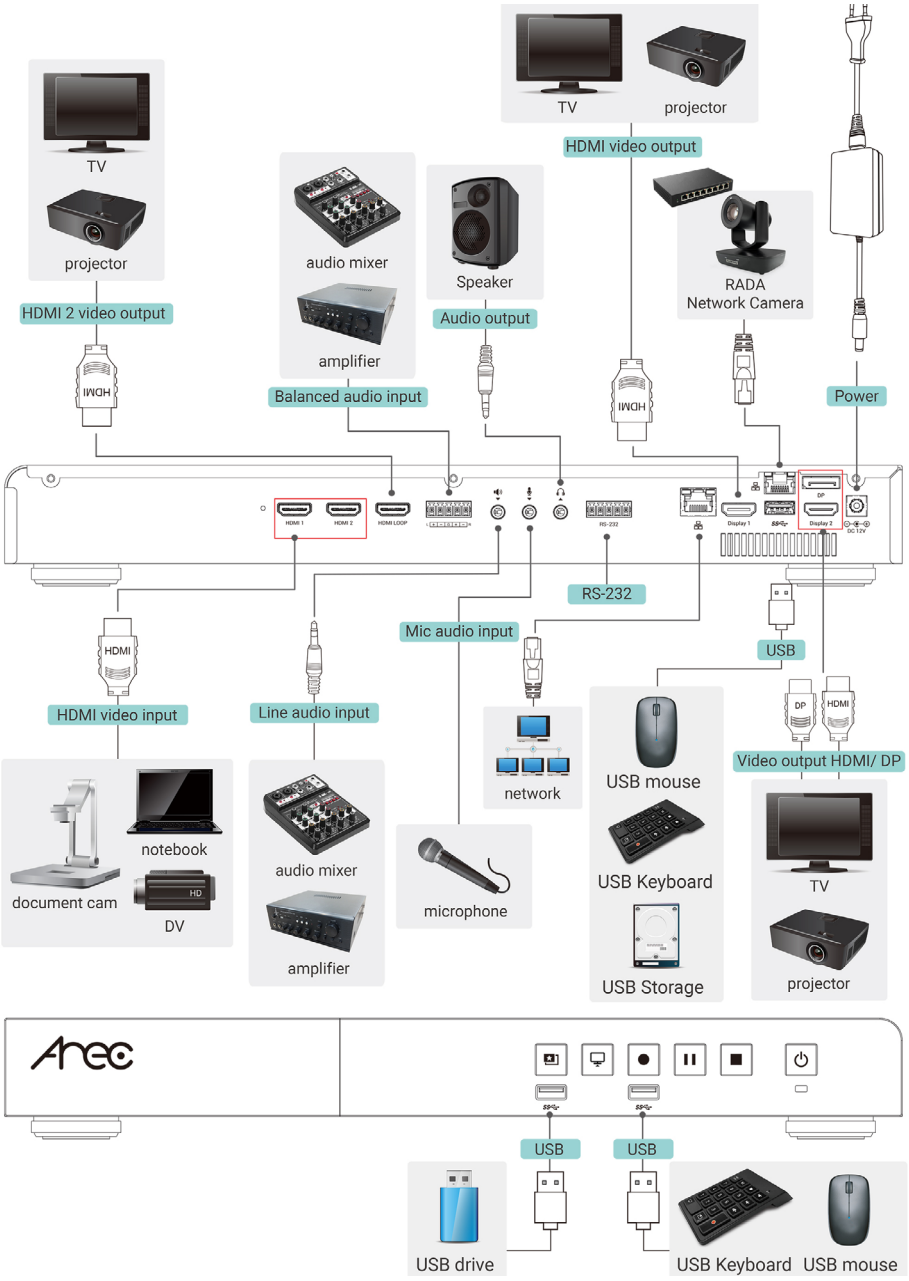


Back



No.	Name	Brief introduction
1	Overlay key	Press to change the current overlay.
2	Loop through key	Press to change the current HDMI loop through mode.
3	Record function keys	Control the record, pause, and stop functions.
4	USB export port	Connect USB drives for Copy to USB and Record to USB modes. Supports FAT32, NTFS, exFAT, ext3, and ext4 file systems. Also supports the same functions as the General USB port.
5	General USB port	Connect USB mouse, keyboard, audio/video input, storage device, or an accessory. Connecting a USB hub is not advised, but if required, use a hub with an external power supply to avoid incompatibilities.
6	Power	Power on/off the device.
7	Status indicator	Red/green dual colour indicator that shows the device's status.
8	Reset button	Press and hold this button until the device restarts to reset it to factory default settings.
9	HDMI inputs	HDMI input ports that can be used to connect various video sources, e.g. cameras, computers, and other devices.
10	HDMI Loop video output	HDMI loop through output for the HDMI 2 input. Does not display the GUI.
11	Phoenix audio input	Balanced audio input with a 5-pin Phoenix connector.
12	3.5mm audio inputs	3.5mm Line and Mic audio input jacks.
13	3.5mm audio output	3.5mm Line audio output.
14	RS-232	Captive screw connector for control over RS-232.
15	Default WAN Ethernet port	RJ-45 Ethernet port for WAN connection (to connect the device to the Internet).
16	Display 1 video output	HDMI output that shows the mixed video with the device's GUI.
17	Default LAN Ethernet port	RJ-45 Ethernet port for LAN connection (to connect to the device's internal network). Can be changed to WAN connection mode.
18	Back USB port	Connect a USB-to-RS-232 cable to control a camera from the Media Station. Also supports the same functions as the General USB port.
19	DP video output	DisplayPort output that shows the mixed video, individual video channels, or all video channels together. Does not display the GUI.
20	Display 2 video output	HDMI output that shows the mixed video, individual video channels, or all video channels together. Does not display the GUI.
21	Power port	Power input port for the supplied 12V/3.34A power adapter.

Connection


TV
projector
HDMI 2 video output
audio mixer
amplifier
Balanced audio input
Speaker
Audio output
TV
projector
HDMI video output
RADA
Network Camera
Power
RS-232
Mic audio input
USB
HDMI video input
Line audio input
document cam
notebook
DV
audio mixer
amplifier
network
microphone
USB mouse
USB Keyboard
USB Storage
Video output HDMI/ DP
TV
projector
USB
USB
USB drive
USB Keyboard
USB mouse

Front Panel Buttons and Indicators

Button	Brief introduction
 Overlay	Press this button to cycle through overlays.
 Display 2 loop through mode	Press this button to cycle through loop through modes on the Display 2 video output.

Button/Indicator	Indicator status	Indicator meaning
 Record/Pause/Stop buttons with indicators	Record button glows red continuously.	Recording in progress.
	Record button flashes red rapidly.	Recording is paused.
	Record button flashes red slowly.	Recording is being finalised and/or files are copying to the front USB storage.
 Power indicator	Steady green.	Boot up completed.
	Solid red.	The device is booting up or shutting down.
	Solid green.	Boot up completed.
	Fast flashing green.	Firmware updating.
	Fast flashing red.	The storage is abnormal or the system is overheating.
	Slow flashing red.	The device is in sleep mode.

External Control via USB Keypads and Keyboards

When connected to any of the station's USB ports, USB numeric keypads and keyboards have the following functions:

Numeric keypad		Keyboard	
Button	Function	Button	Function
0	Change the HDMI loop through (Display 2) output mode.	Caps Lock	Start or stop recording.
1	Theme 1.	Backspace	Mute or unmute all audio inputs.
2	Theme 2.	ESC	Power off.
3	Theme 3.	Z	Change the background.
4	Theme 4.	X	Change the layout.
5	Theme 5.	C	Change the overlay.
6	Theme 6.	V	Start or stop live streaming.
7	Theme 7.	B	Playback the last recorded video.
8	Theme 8.	A	Increase volume of all audio outputs.
9	Theme 9.	S	Decrease volume of all audio outputs.
Enter	Start a recording.	D	Mute or unmute all audio outputs.
/	Pause the recording.	G	Hide or show the GUI.
*	Stop the recording.	T	Change the theme.
.	Take a snapshot.	.	Take a snapshot.
-	Decrease volume of all audio inputs.	0-9 (not on the numeric keypad)	Used to fill out network settings in the GUI.
+	Increase volume of all audio inputs.		
Backspace	Mute or unmute all audio inputs.		

Note that numberpads of regular keyboards have the same functionality as USB numeric keypads.

Getting Started

Way 1:

Connect a computer to the LAN port of the Media Station with a standard network cable. Open a browser and enter the station's LAN IP address (default 192.168.11.254). This will open the station's Administrator web page.

Way 2:

Connect the Display 1 video output of the Media Station to a display. Connect the Media Station's WAN port to the location's network with a standard network cable. Open a browser and enter the IP address displayed in the lower right side of the screen in your browser to access the station's Administrator web page.



Log in Administrator with the default username and password admin to access the station's settings.

Overview of the Web Interface

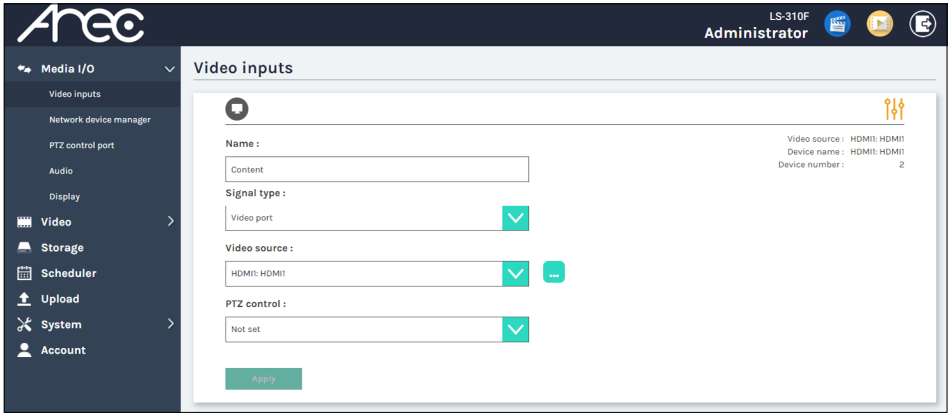
The Media Station has three user profiles that can be used to access its web interface. The interface consists of four pages. They are:

Administrator	This page is used for configuring the Media Station. The primary account for this page has full access to the entire web interface of Media Stations. The default username and password is admin.
Online Director	This page is used for controlling the recording and streaming processes and accessing live production features. The primary account for this page has full access to the Online Director and limited access to the Administrator page. The default username and password is director.
Video Manager	This page is used to access and manage recorded videos and snapshots. The primary account for this page has full access to the Video Manager page only. The default username and password is video.
Mini Controller	This is the mobile version of the Media Station's web interface. It is used for controlling the recording and streaming processes and accessing live production features. This page is accessible to director and admin users.

Chapter 1 Administrator

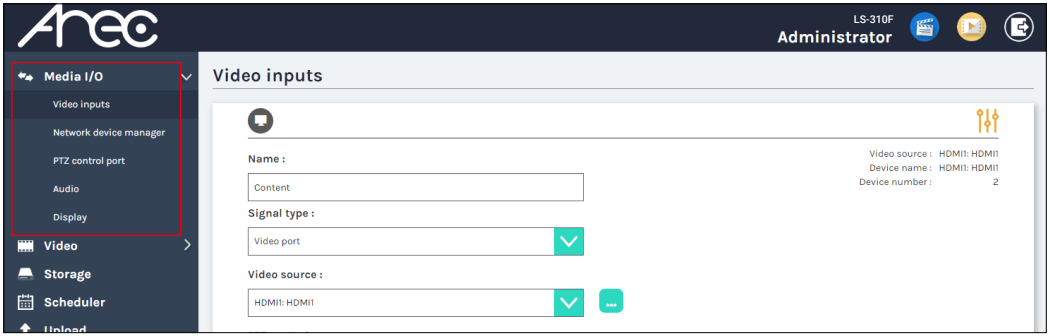
The Administrator web page allows the user to adjust all system settings, including audio and video sources, recording and streaming parameters, backup, storage, and others.

You can access other Media Station pages from the Administrator. Click on the icon to access the Video Manager page and on the icon to access the Online Director page.



1.1 Media I/O

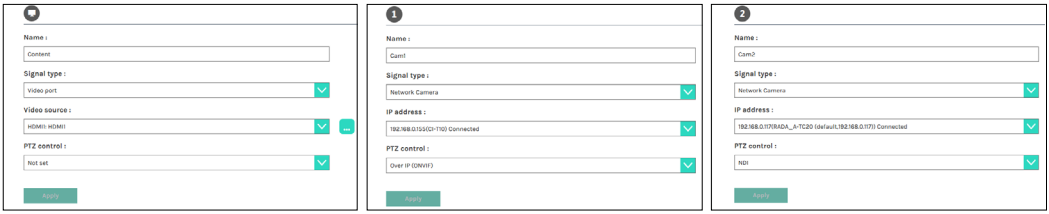
The pages within Media I/O include the following:



Video inputs	Manage video channels. Rename them, select signal types, video sources, PTZ control methods, and other parameters.
Network device manager	Find all ONVIF and NDI network cameras and sources visible to the Media Station.
PTZ control port	Configure the protocol and baud rate to control cameras connected to the Media Station's USB port via a USB-to-RS-232 cable.
Audio	Configure the Media Station's audio inputs, outputs, and their volume.
Display	Configure the Media Station's on-screen language, GUI, notifications, and loop through modes.

1.1.1 Video Inputs

The LS-310F is capable of processing up to three video channels. Each channel can contain a single video source. Video channels are configured on this page.



1.1.1.1 Configuring a Video Channel

- The sources that are available for selection in a video channel depend on the selected Signal type. Signal type can be set to Video port, Network Camera, IP source, or None.

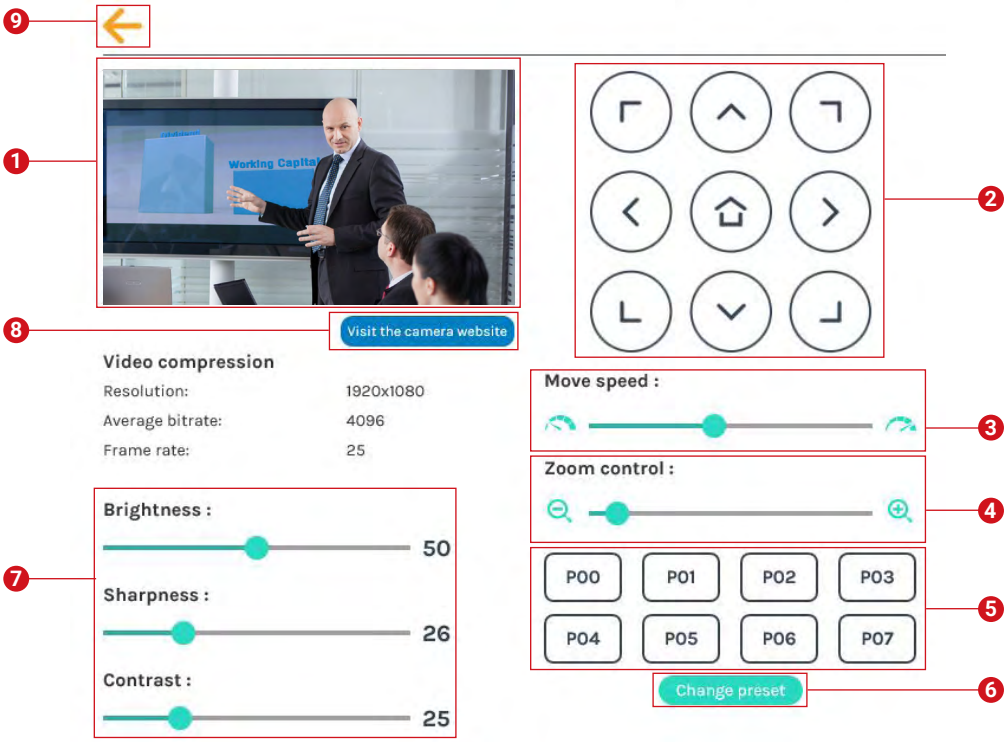
Video port	Select this signal type to choose from sources connected via HDMI or USB.
Network Camera	Select this signal type to choose from sources added through the Network Device Manager. Only ONVIF Profile S and NDI|HX sources are supported for this. Full NDI sources can be found and added, but are not officially supported.
IP source	Select this signal type to connect a source via RTP, RTSP, RTMP, or SRT protocol.
None	Select this signal type to not use this channel.

- PTZ control: The Media Station can control selected sources via different PTZ control protocols and modes. They can be selected in PTZ control.

Serial port	Select this mode to control the source via a USB-to-RS-232 connection. The protocol and baud rate are defined on the PTZ Control port page.
Over IP (ONVIF)	Select this mode to control the source via ONVIF Profile S. This mode is available only if the Signal type is set to Network Camera.
VISCA over IP	Select this mode to control the source via VISCA over IP. After selecting this mode, enter the source's IP address.
NDI	Select this mode to control the source via NDI. This mode is available only if the Signal type is set to Network Camera.
None	Select this mode if PTZ control from the station is not needed or not available for this source.

1.1.1.2 Advanced Configuration

After configuring a video channel, click to access video channel controls. Depending on the signal type and PTZ mode, it is possible to preview and control PTZ of the selected source, adjust its visual settings, and also access its web page.

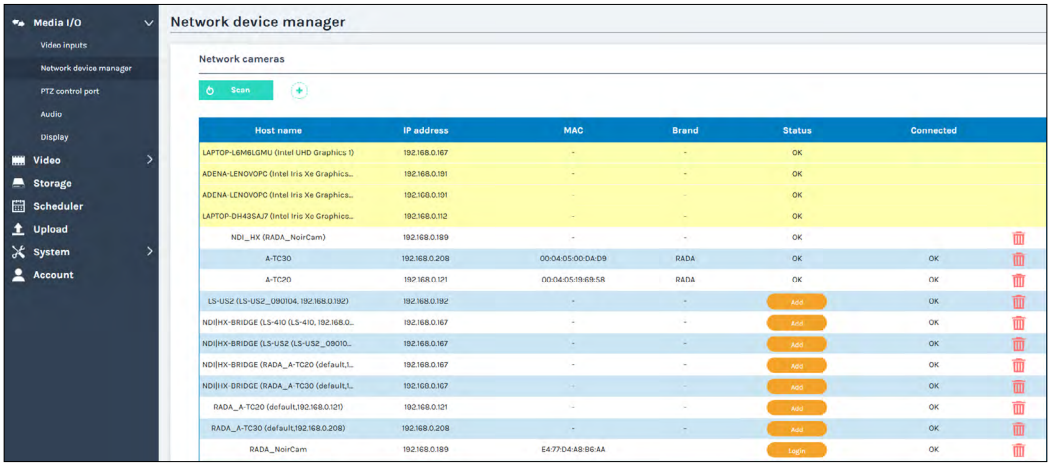


1. Channel preview.
2. Pan and tilt control. Click the button to activate the home preset of the controlled source.
3. Pan and tilt movement speed control.
4. Zoom level control.
5. Presets 0 to 7. Click on a preset to activate it.
6. Change presets. Click to enable changing, then select a preset and click Save to save/overwrite it or Cancel to return.
7. Adjust brightness, sharpness, and contrast of a selected source. This is available only if the Signal type is set to Network Camera.
8. Click to access the source's web page.
9. Click button to return to the Video inputs page.

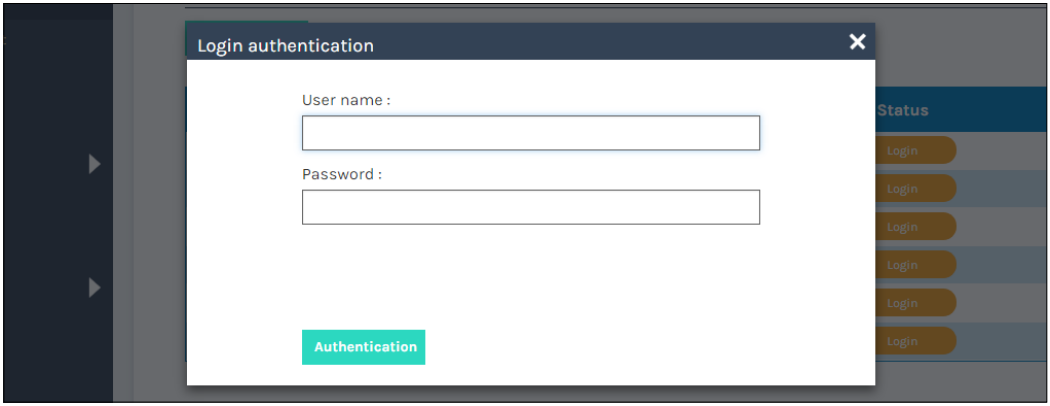
1.1.2 Network Device Manager

This page shows all network sources that support ONVIF and/or NDI connections and that are visible to the Media Station. However, only ONVIF profile S and NDI|HX sources are officially supported by the Media Station. Click Scan to search for network sources.
In Status, click Add to add a source to the Media Station.

To delete a source from the list, click the 🗑 icon.

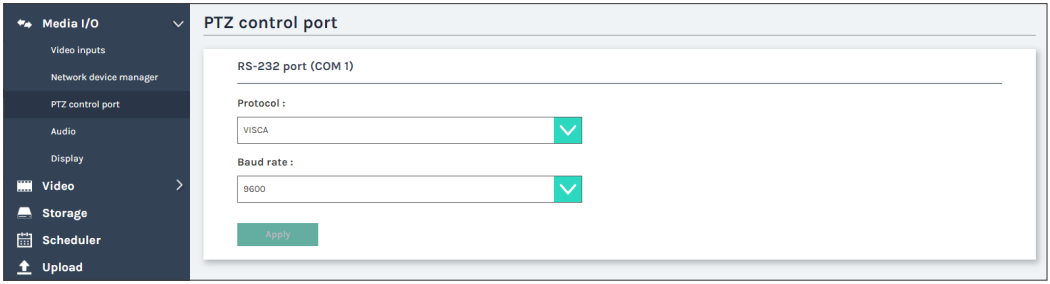


If a source requires authentication, in Status, click Login and enter credentials for this source to add it to the Media Station.



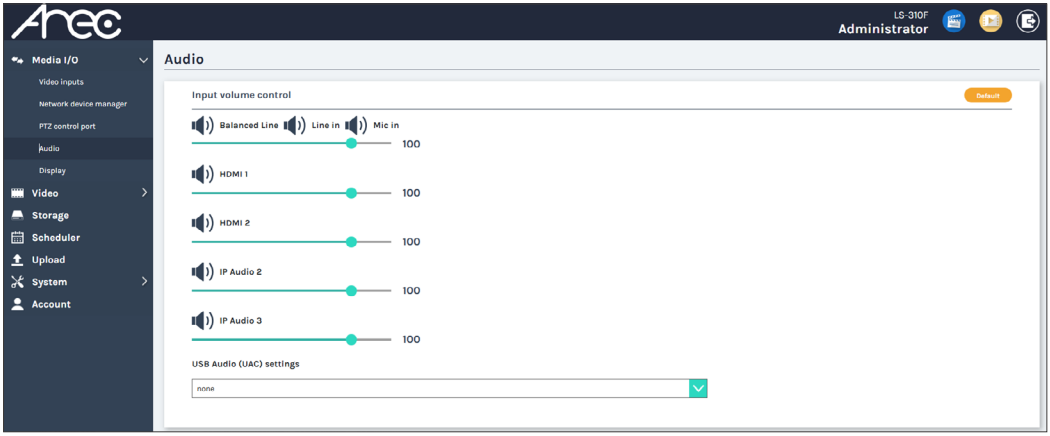
1.1.3 PTZ Control Port

The back USB port of the Media Station supports connection of USB-to-RS-232 cables with PL2303 or FT4232H chips for controlling PTZ of connected and selected sources. The protocol and baud rate set on this page must match those configured on the source.

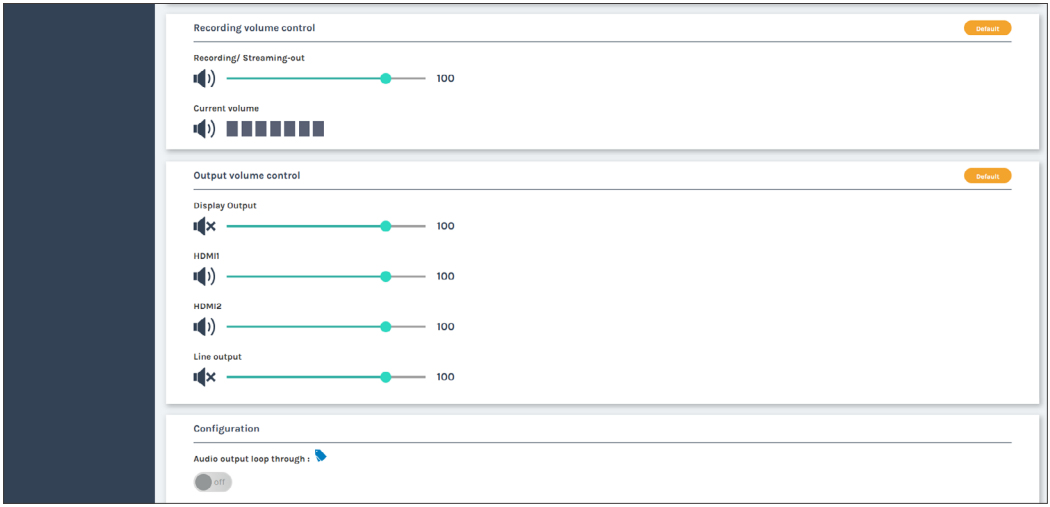


1.1.4 Audio

This page is used to configure audio input and output settings of the Media Station.



- Input volume control: drag sliders to adjust volume levels of audio sources. Click on a speaker icon next to a source to mute/unmute it.
  Click on a dropdown menu under USB Audio (UAC) settings to select a USB source.
  Sliders to control volume of RTP/RTSP/RTMP/RTMPS/NDI/SRT sources appear after such sources are selected in the Video inputs page.

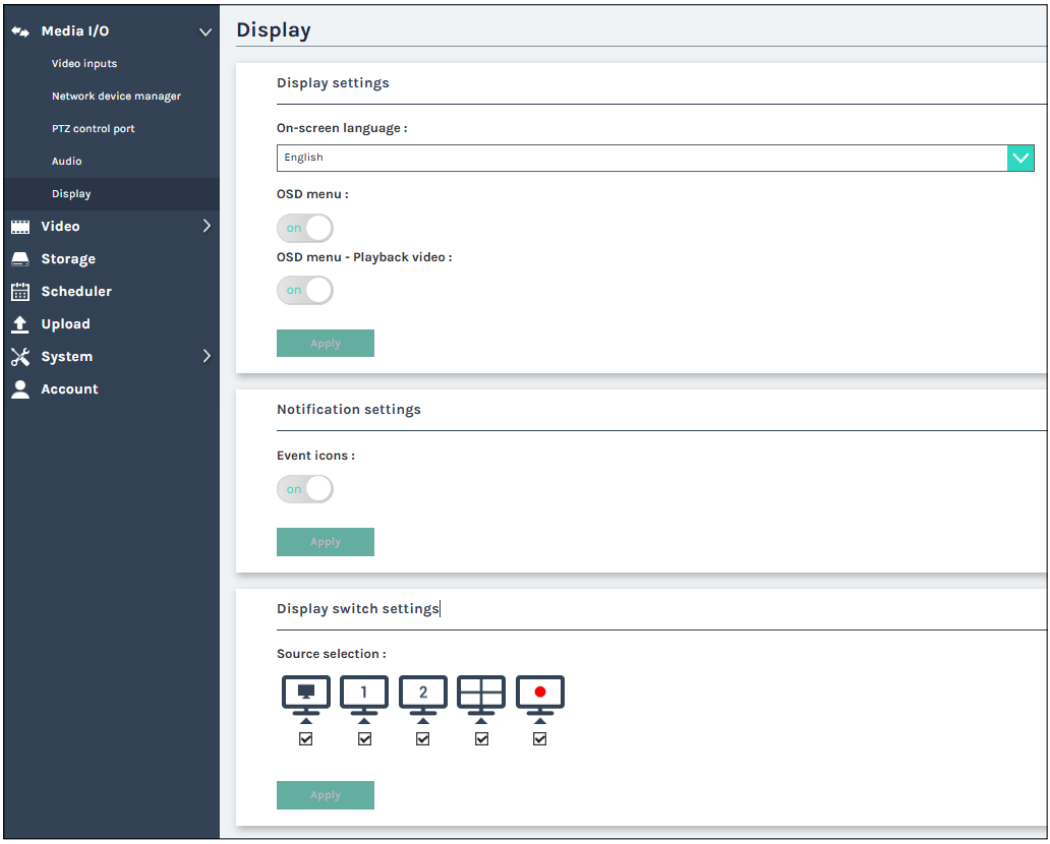


- Recording volume control: adjust the volume of recorded and streamed video.
- Output volume control: adjust the volume of physical audio outputs. Display Output refers to the DP output port.

Audio output loop through: toggle ON to enable audio output through the 3.5mm and HDMI/DP outputs of the Media Station or OFF to disable it. Note that even when it is off, the station's outputs retain audio from network video inputs.

1.1.5 Display

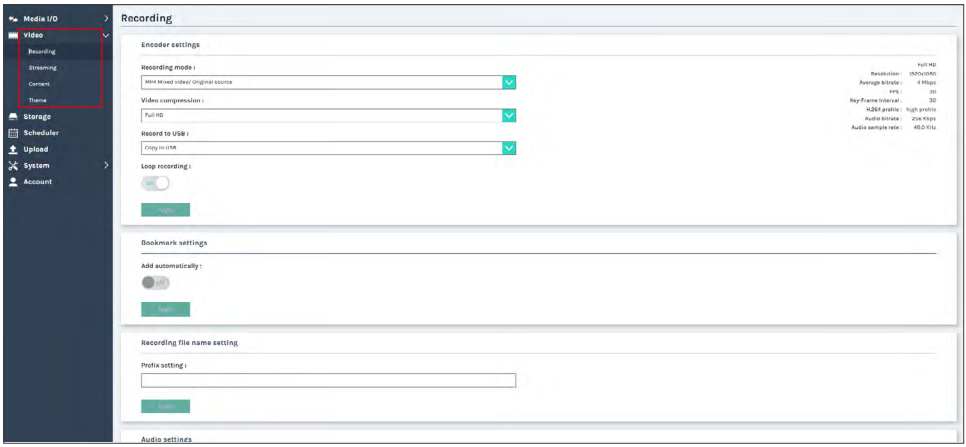
This page controls the physical outputs of the Media Station and what they are displaying.



- On-screen language: change the GUI language.
- OSD menu: toggle ON to enable the Graphical User Interface (GUI). The GUI is displayed with the mixed video output of the Media Station (Display 1 HDMI output). Toggle OFF to disable it.
- OSD menu - Playback video: toggle ON to enable recording playback function in the GUI. Toggle OFF to disable it.
- Notification settings: toggle ON to display notification icons on the mixed video output of the Media Station (Display 1 HDMI output). The list of icons and their meaning can be found in **Chapter 4 Important System Messages and Notifications**. Toggle OFF to hide them.
- Display switch settings: select which loop through modes are enabled or disabled in the Media Station. Available options: each channel, all channels together, mirror mode (mixed video without the GUI).

1.2 Video

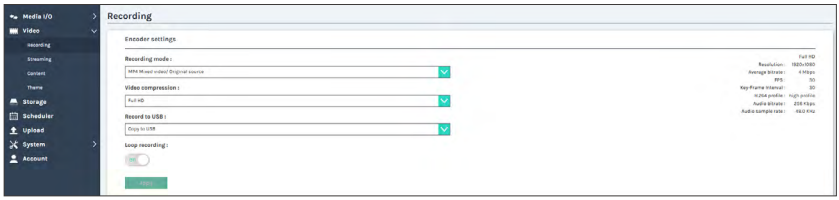
This group of pages defines the recording and streaming parameters of the Media Station. The pages include:



Recording	Configure the recording settings of the Media Station on this page.
Streaming	Configure the streaming settings of the Media Station on this page.
Content	Edit the metadata that will be automatically applied to future recordings on this page.
Theme	Configure the overlays, backgrounds, themes, and transitions between these graphical effects on this page.

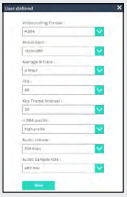
1.2.1 Recording

The station's recording profile is configured under Encoder settings.

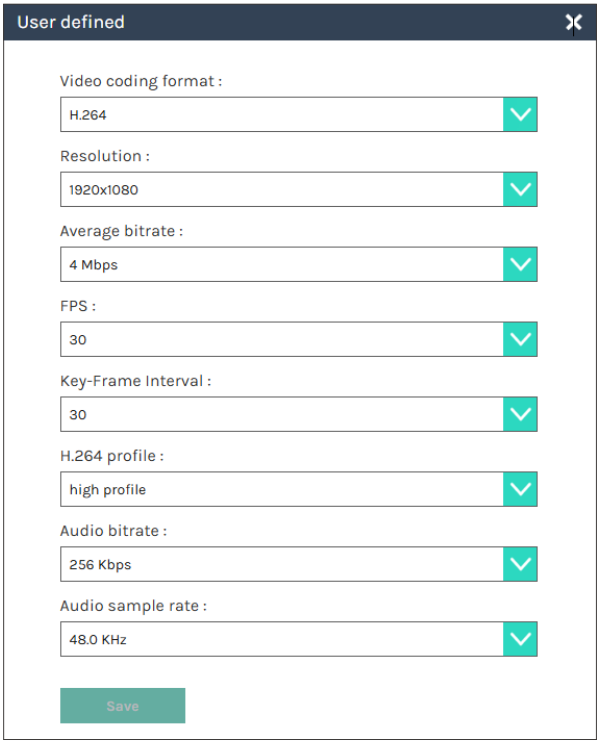


- Recording mode: select MP4 Mixed video to record only the mixed video.
  Select MP4 Mixed video/Original source to record the mixed video and each video channel individually.
  Select OFF to disable recording.
- Video compression: choose from 6 preconfigured video profiles for video recording. To customise your own profile, select User defined, then click the ••• button to access its configuration.
- Record to USB: this function allows recordings to be saved on USB flash drives connected to the USB port under the Overlay button.
  Select Copy to USB to copy the recording to a connected USB drive after the recording is finished.
  Select Record to USB to record directly to the connected USB drive. This will bypass the Media Station's primary storage, and the file will not be visible in the Video Manager. This function automatically changes the station's Recording mode to MP4 Mixed video.
- Loop recording: toggle ON to allow the Media Station to erase old recordings to make space for new recordings. Toggle OFF to disable this feature.

After changing any of the above parameters, click Apply under Loop recording to save the changes.

Profile name	Video Resolution/Bitrate	Application description
Full HD	1080p30/4 Mbps	Suitable for dynamic scenes. Large recording file sizes.
Internet Full HD	1080p30/3 Mbps	Suitable for general scenes. Medium recording file sizes.
HD	720p30/2 Mbps	Suitable for static scenes. Small recording file sizes.
Internet HD	720p30/1.5 Mbps	Suitable for static scenes. Even smaller recording file sizes.
SD	480p30/800 Kbps	Suitable for videos that will be watched on small screens. Very small recording file sizes.
Mobile SD	480p30/500 Kbps	Suitable for videos that will be watched on small screens. The smallest recording file sizes.
User defined	Click ••• to open a profile customisation window and configure your own video profile.	

1.2.1.1 Making a Custom Video Profile

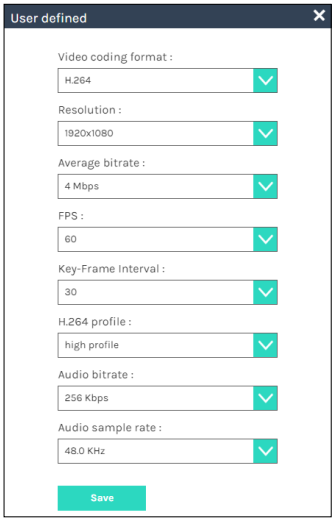


Video coding format: choose which codec to use. The LS-310F supports H.264 and HEVC (H.265). HEVC is more efficient and results in smaller videos, but selecting it imposes limitations (described in **1.2.1.2 Custom Video Profile Limitations**).
Resolution: change the recording resolution. Higher resolution results in more detailed videos, but uses more storage space. 1920x1080 (Full HD) is the highest available resolution.
Average bitrate: change the average bitrate of the video. Higher bitrate can improve video quality, but increases file size.
FPS: change the recording framerate. Higher framerate improves video quality, but increases file size. 50 and 60 FPS are the highest selectable recording framerates, but selecting them imposes limitations (described in **1.2.1.2 Custom Video Profile Limitations**).
Key-Frame Interval: change the frame interval between capturing a full, uncompressed image. Lowering the interval can increase video quality in very dynamic scenes, but will require much more bandwidth, increase recording file size, and use more resources of the Media Station.
H.264 profile: change the H.264 codec profile. High profile is the most efficient and it is supported on the vast majority of devices nowadays.
Audio bitrate: change the audio bitrate. Higher bitrate can improve audio quality, but increases file size.
Audio sample rate: choose the sample rate. Currently, the LS-310F supports only 48.0 KHz.

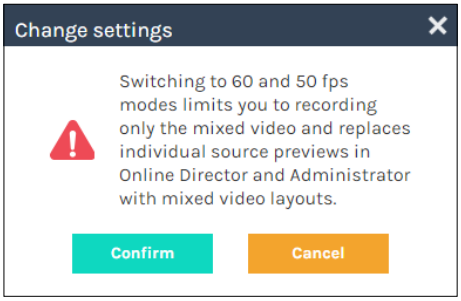
1.2.1.2 Custom Video Profile Limitations

Note that changing resolution to 1920x1080 with 50 or 60 FPS imposes the following limitations:

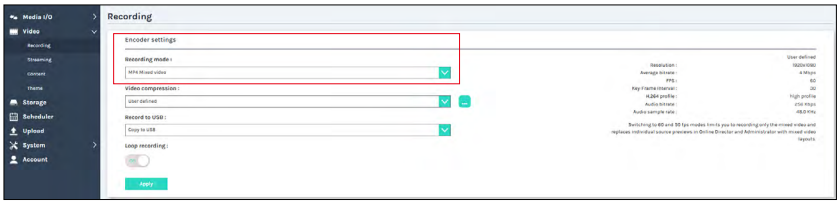
- The station can record only the mixed video.
- Individual channel preview in the Administrator and Online Director web pages is replaced with mixed video.



Click on Confirm to apply or Cancel to exit.

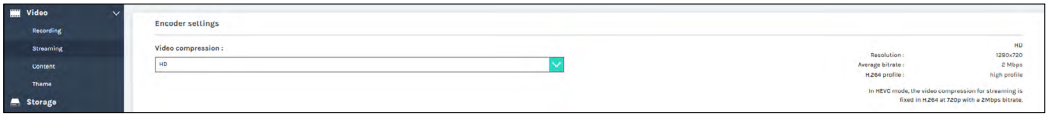


Unless it was set to OFF, the station's recording mode will automatically change to MP4 Mixed video.



Changing video compression to HEVC (H.265) imposes the following limitations:

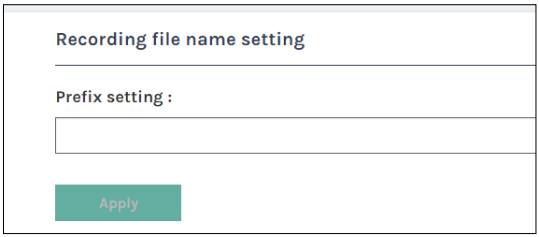
- Streaming profile is set to H.264, 720p30, and 2 Mbps bitrate.
- Individual channel preview in the Administrator and Online Director web pages is replaced with mixed video.



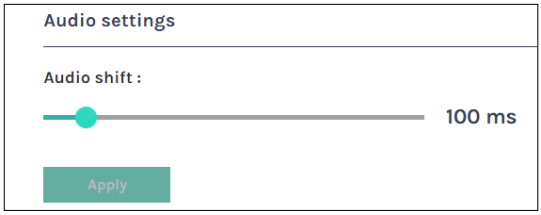
1.2.1.3 Other Recording Page Settings



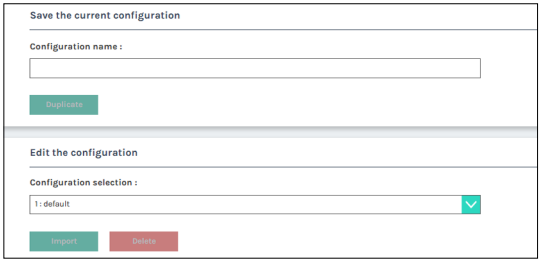
Bookmark settings: toggle ON to automatically add bookmarks in the recording whenever a layout is changed. Toggle OFF to disable. Click Apply to confirm changes.



Prefix setting: add a prefix to future video recording titles for easy identification.



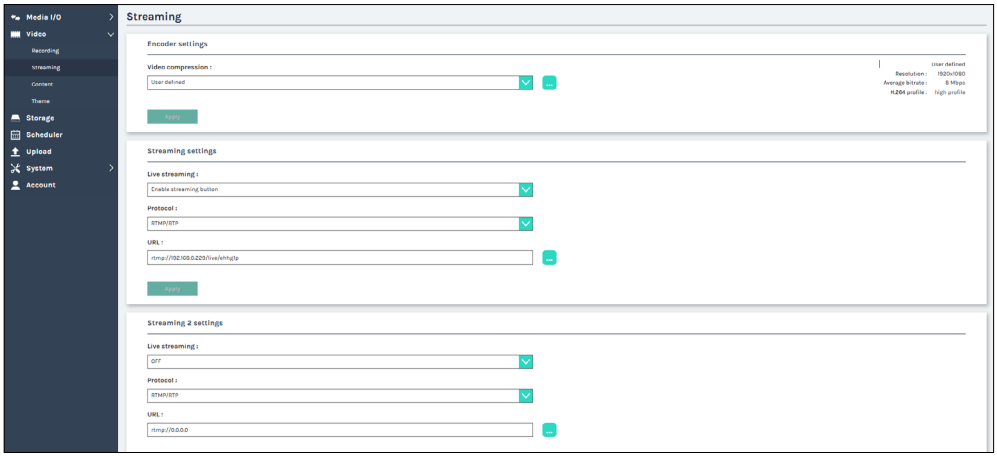
Audio shift: adjust the delay of audio relative to video in microseconds, i.e. how many microseconds must pass after video is displayed for audio to come. Use this setting to synchronise your audio and video sources and achieve lip sync.



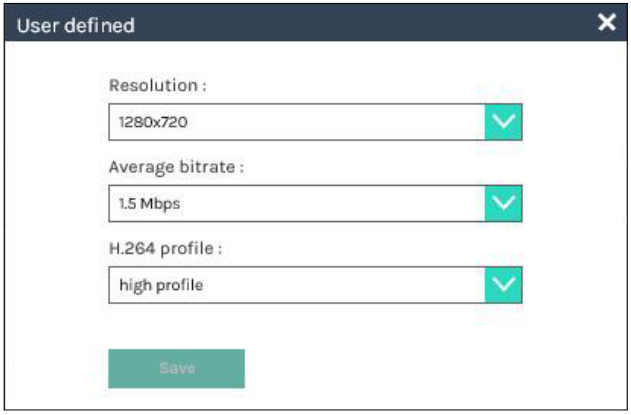
Save the current configuration: under Configuration name, enter a name for a new configuration and click Duplicate to create it. The new configuration will be an exact copy of the current system configuration.
Edit the configuration: under Configuration selection, select which configuration you want to use and click Import. The station will reboot and any changes made to settings afterwards will be saved on the selected configuration. Click Delete to remove a saved configuration. You can only delete configurations that are not currently in use.

1.2.2 Streaming

This page is used to configure streaming settings and URLs of the Media Station. Define the streaming profile under Video compression and set streaming URLs under Streaming settings. The Media Station is able to stream to two different destinations via RTMP/RTMPS/RTP/SRT. It is also possible to enable NDI|HX streaming and SRT Listener.



Video compression: choose from 6 preconfigured video profiles for video streaming. To customise your own profile, select User defined, then click the ... button to access its configuration. This profile is applied to all network streams.
It is recommended to set this profile according to the streaming platform's recommendations to ensure the best streaming experience.
Note that the streaming profile cannot be set to higher resolution than the recording profile.



Live streaming: select a streaming mode for this stream. Options include:

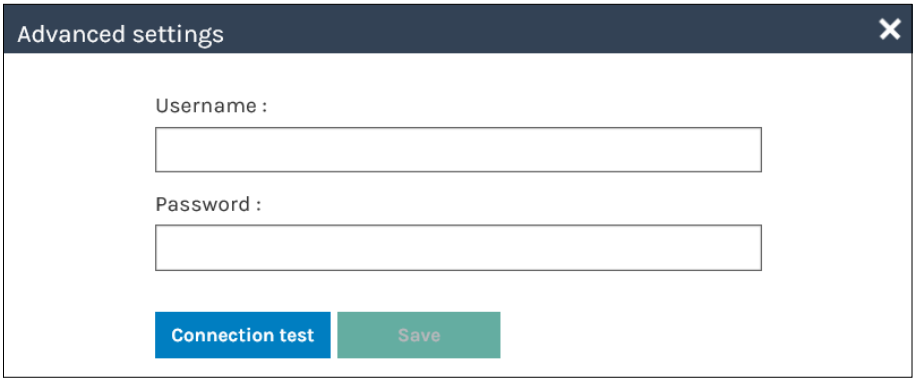
- OFF: no streaming.
- Together with recording: the stream starts and stops together with the recording.
- Streaming always: the stream will be active as long as the URL is correct and the Media Station is on.
- Enable streaming button: enable a button to separately control stream start/stop via the GUI, Online Director, or by sending RS-232/TCP commands.

Protocol: select the streaming protocol for this stream. The URL structure depends on which protocol is used:

RTMP/ RTMPS	The URL consists of the server/stream URL and a stream name/key, separated by a forward slash (/). The URL and key are normally provided by the CDN or the streaming platform. In some cases, the stream name/ key must be defined by the user. Enter these elements in the following format: rtmp://server URL/stream key or rtmps://server URL/stream key For example, to stream to an AREC Media Station, type the URL as follows: rtmp://IP address of the Media Station/live/streamkey In this example, "rtmp://IP address of the Media Station/live" is the server/stream URL, and "/streamkey" is the stream name/key (which is defined by the user).
RTP	The URL consists of the destination IP address and port number in the following format: rtp://destination IP address:port number For example, rtp://192.168.0.100:1024 or rtp://226.10.24.32:7000
SRT	Select connection mode (Caller/Rendezvous) and fill out the fields with data from the CDN/streaming platform.

URL: type the streaming URL using information from the CDN/streaming platform/destination using the format above.

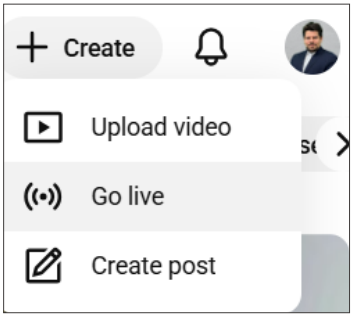
Click the ... button next to the URL to test the connection or enter a username and password. Username and password is only required for certain streaming platforms, such as Wowza. Do not fill out these fields if the streaming platform does not require it.

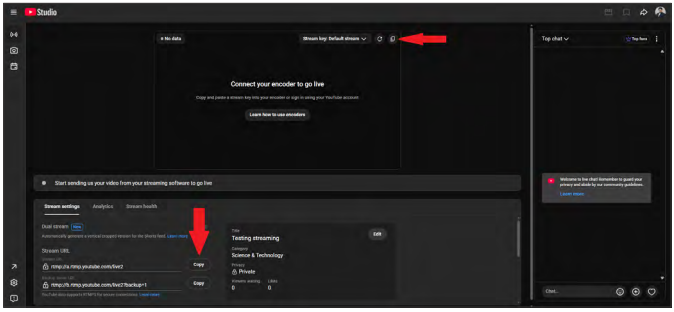


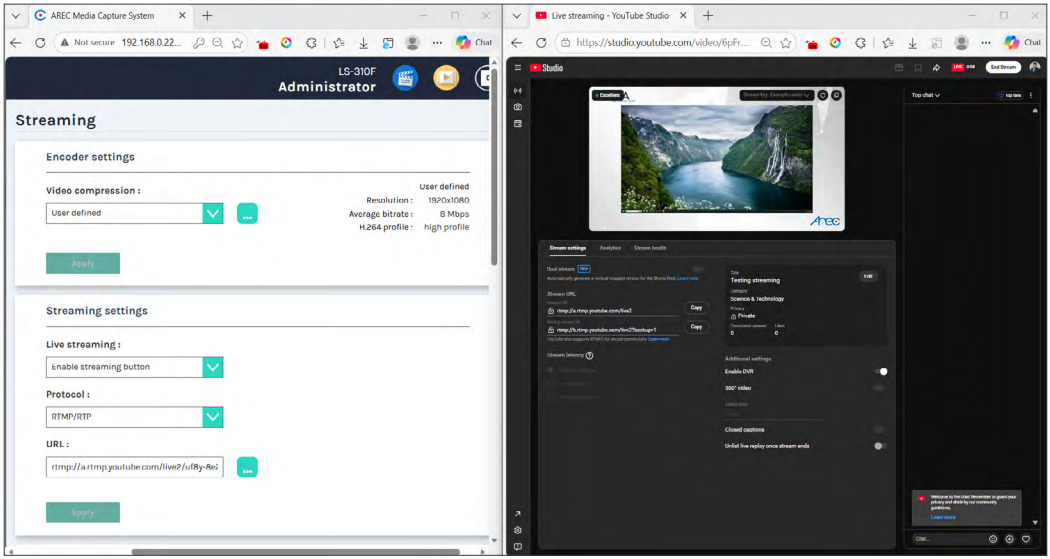
1.2.2.1 Streaming to YouTube

To stream to YouTube, your YouTube Channel must be verified. Note that verification takes a day to complete. This only needs to be done once.

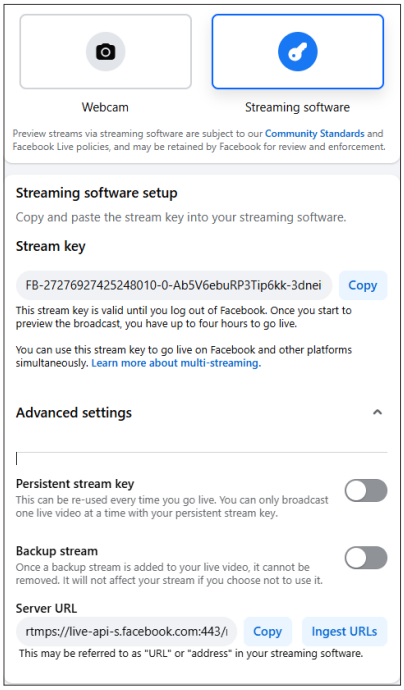
1. Open YouTube and click Create → Go Live. This opens the YouTube Studio window. If your YouTube Channel is not verified, request verification here.
2. To stream now, stay on this page, or if you want to schedule a stream for later, click Manage and set up a date.
3. In YouTube Studio, click Copy under Stream URL. Paste this link in the Media Station's URL field under Streaming settings. Add a forward slash (/) at the end of this link.
4. In YouTube Studio, click Copy next to the Stream key. Paste this key in the Media Station's URL field under Streaming settings directly after the forward slash (no spaces).
5. Click Apply to save this configuration. The Media Station is ready to start streaming.







1.2.2.2 Streaming to Facebook

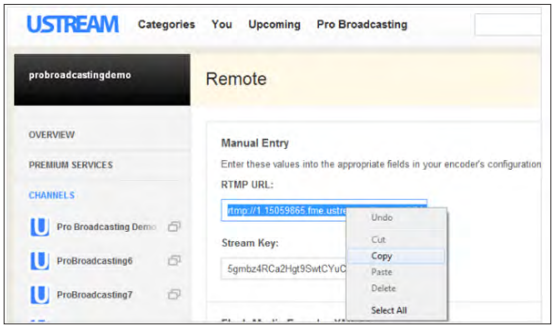


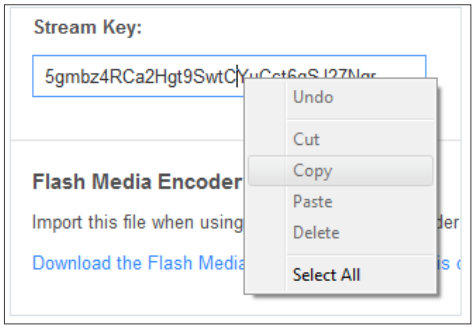
1. Click Live video on the profile page to set up an event or start the stream immediately. Click Set up live video to start streaming immediately.
2. Under Select a video source, select Streaming software.
3. Click Advanced settings to get the Server URL.
4. Copy the Server URL and paste it in the Media Station's URL field under Streaming settings. Ensure that there is a forward slash (/) at the end of this link.
5. Copy the Stream key and paste it in the Media Station's URL field under Streaming settings at the very end, after the Server URL/
6. Click Apply to save this configuration. The Media Station is ready to start streaming.



1.2.2.3 Streaming to Ustream

Combine the contents of both fields: RTMP URL and Stream Key, insert a slash between them. Paste this string into the LS-310F streaming protocol setting field. For example: rtmp:1.15059865.fme.stream.tv/ustreamVideo/15059865/5gmbz4RCa2Hgt9SwtCYuCct6qS137Nar





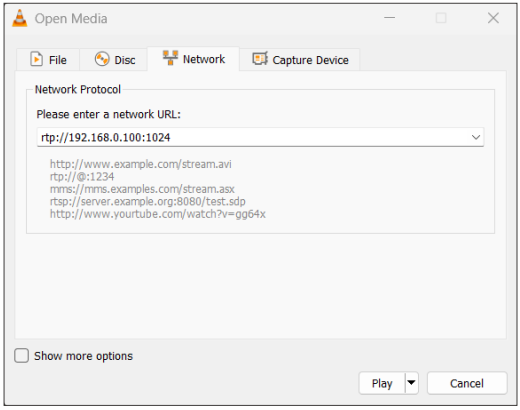
1.2.2.4 Streaming via RTP

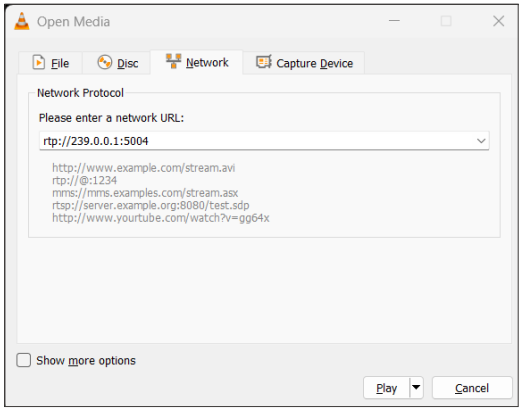
To stream via RTP, enter the destination's IP address and port number in the following format:
rtp://destination IP address:port number

For Unicast RTP streaming (one-to-one), you must enter the IP address of the recipient and any free port number (recommended between 1024 and 65535 to avoid port conflict). For example, rtp://192.168.0.100:1024

For Multicast RTP streaming (one-to-many), you must enter the Multicast IP address and port number. Multicast IP range is 224.0.0.0 – 239.255.255.255. For example, rtp://239.0.0.1:5004

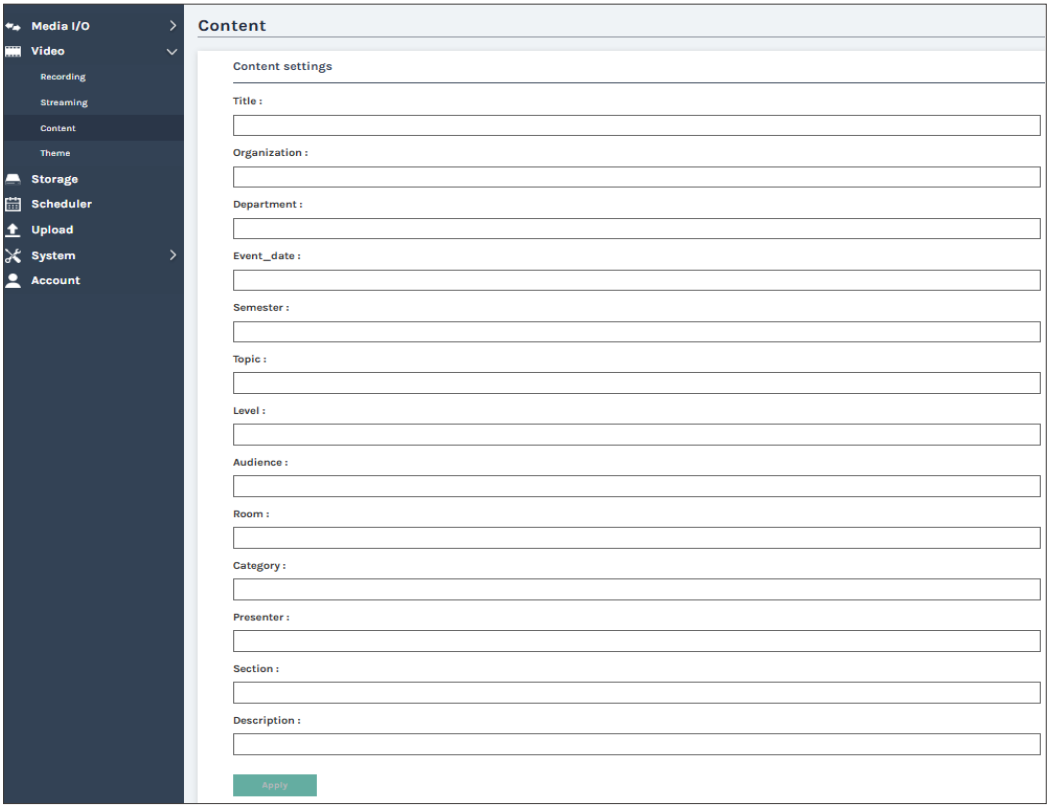
You can use network players to watch an RTP stream. For example, using VLC, click Media → Open Network Stream and type the same URL.



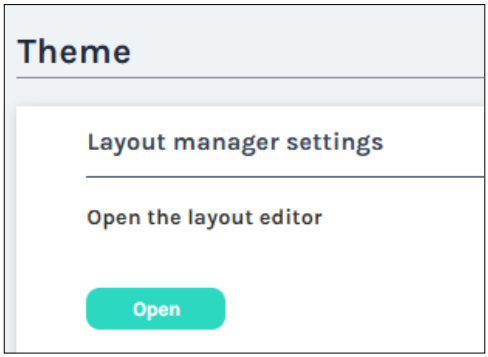


1.2.3 Content

This page allows editing metadata of future recordings. Fill out the fields as needed and press Apply to save the changes.



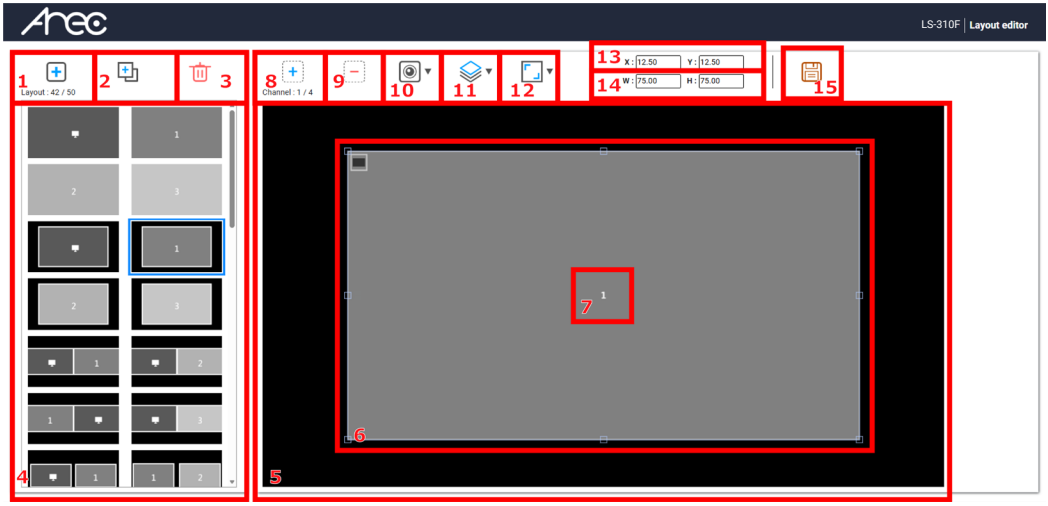
1.2.4 Theme



This page is used to upload and manage overlay and background images, manage themes and other graphic elements and features.

Layout editor can be accessed at the top of the page. It can be used to create, edit, or delete layouts. To access it, click Open.

Note that the Theme page must be refreshed after making any changes to layouts.



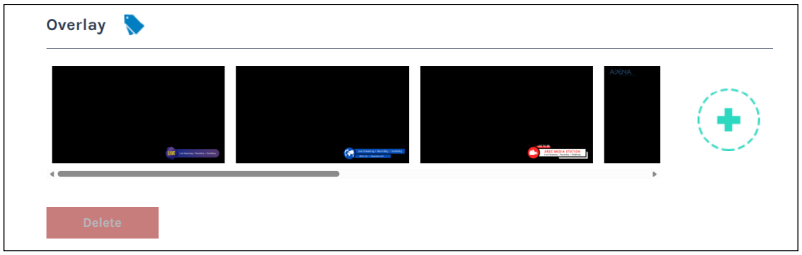
Here is what each function allows you to do:

1. Add a layout: click to add a layout from a template. The template can then be further modified.
2. Copy the layout: select an existing layout from the list of layouts (4) and click this button to copy it.
3. Delete the layout: select an existing layout from the list of layouts (4) and click this button to delete it.
4. List of layouts: shows all created layouts in the system. Click on a layout to copy (2), delete (3), or modify it (5). Selected layout gets a blue outline in the list.
5. Selected layout: this shows the selected layout from the list of layouts (4). Click on a channel in the layout to select it (6). You can remove a channel (9), change channel designation (7/10), order (11), crop mode (12), coordinates (13) and dimensions (14).

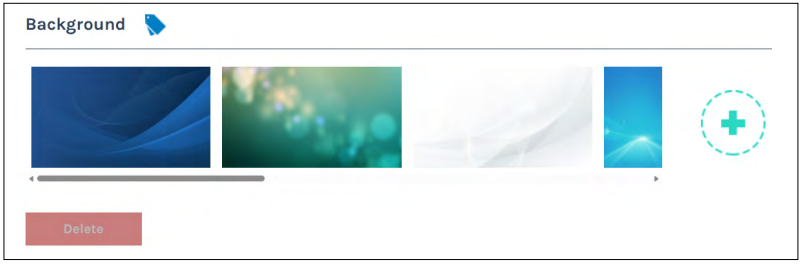
6. Selected channel: blue outline and squares on a channel indicate that this is the currently selected channel.
7. Channel designation: this indicates the channel number in the same way it is displayed on the "Administrator" → "Media I/O" → "Video inputs" page.
8. Add a channel: click to add a channel. After a channel is added, you need to designate its channel (10) before the layout (5) can be saved.
9. Remove a channel: click to remove a selected channel (6).
10. Priority/channel number designation: click to change the channel number or priority of the selected channel (6). Channels cannot share priority/channel numbers in the same layout.
11. Arrangement: click to change the order in which the selected channel (6) is displayed relative to other channels.
12. Crop mode: click to change how this channel is displayed. The options are identical to the Layout Editor application for AREC Media Stations: letterbox (default), Fit to Width, Fit to Height, Fill.
13. Coordinates: change the X/Y coordinates of the selected channel (6).
14. Dimensions: change the width and height of the selected channel (6).
15. Save: click to save changes to the selected layout (5).

If you had the "Theme" page open before clicking "Save" in the Layout Editor, you will need to refresh the page for the layouts to update. After the page is refreshed, you will see the new and edited layouts when editing themes.

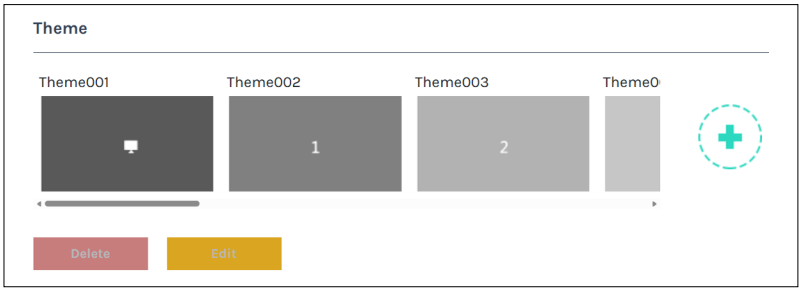
Overlay: images that are displayed in front of video channels and background. Click the ⊕ button to upload an overlay. Click on an existing overlay and click Delete to remove it. Click and drag an overlay to change its order.
The Media Station supports up to 20 overlays. Overlay images must be in .png format. To not completely cover other elements, they must be transparent. The recommended image resolution is 1920x1080.



Background: images that are displayed behind all elements. Click the ⊕ button to upload a background. Click on an existing background and click Delete to remove it. Click and drag a background to change its order.
The Media Station supports up to 10 backgrounds. Background images must be in .png format. The recommended image resolution is 1920x1080.



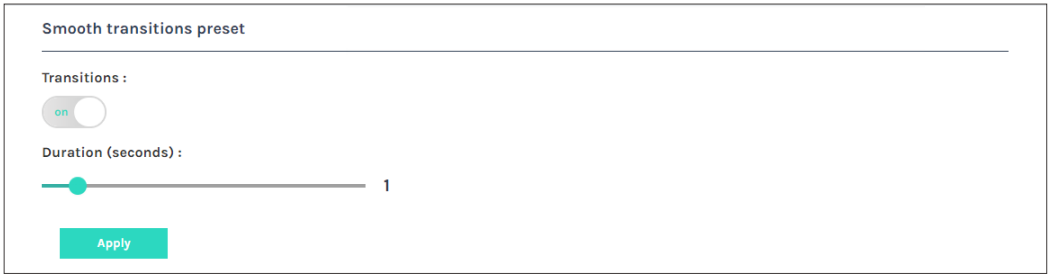
Theme: this function allows users to save combinations of overlays, backgrounds, and layouts together. Themes can be switched using various control methods available on the Media Station: Online Director, the GUI, and others. Click the ⊕ button to create a theme. Click on an existing theme and click Delete to remove it or Edit to adjust it. Click and drag a theme to change its order.
The Media Station supports up to 50 themes.



Date/Time overlay: this overlay shows the current date and time. Toggle the overlay ON to display it or OFF to disable it. Configure the date and time format, colour, size, and position using the available settings.
Note that this overlay works simultaneously with the standard overlays. It is displayed on top of standard overlays.

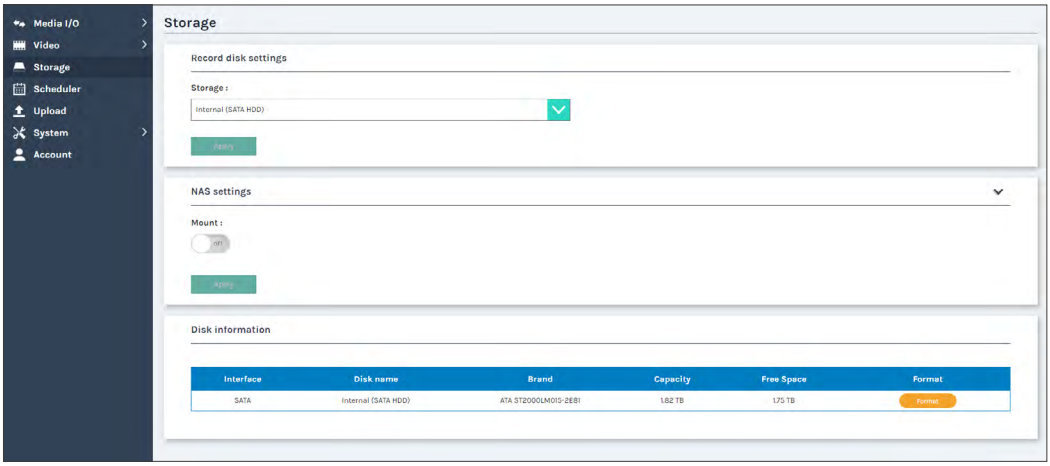


Smooth transitions preset: this setting controls the configurable fade out/fade in transition effect. Toggle ON to enable this effect, OFF to disable it. Set the transition effect duration using the slider (0.5s-5s).
This transition effect applies whenever an overlay, layout, background, or a theme is changed. The original elements fade out and are replaced by fading in, newly selected overlay/layout/background/theme elements.

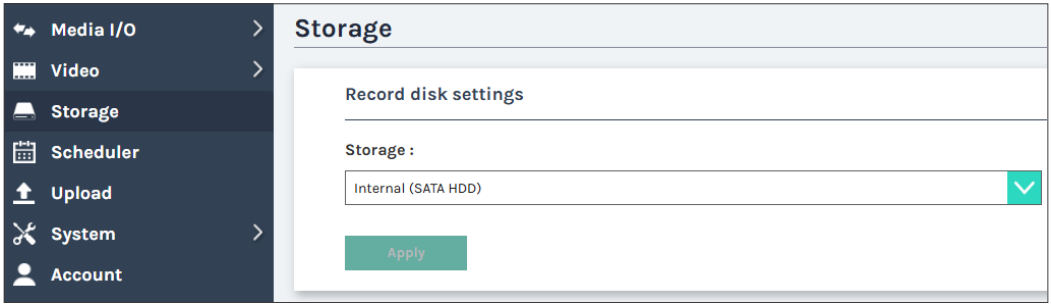


1.3 Storage

This page is used to define and manage the primary storage of the Media Station. By default, the station's built-in 2 TB drive is already selected and ready to be used.



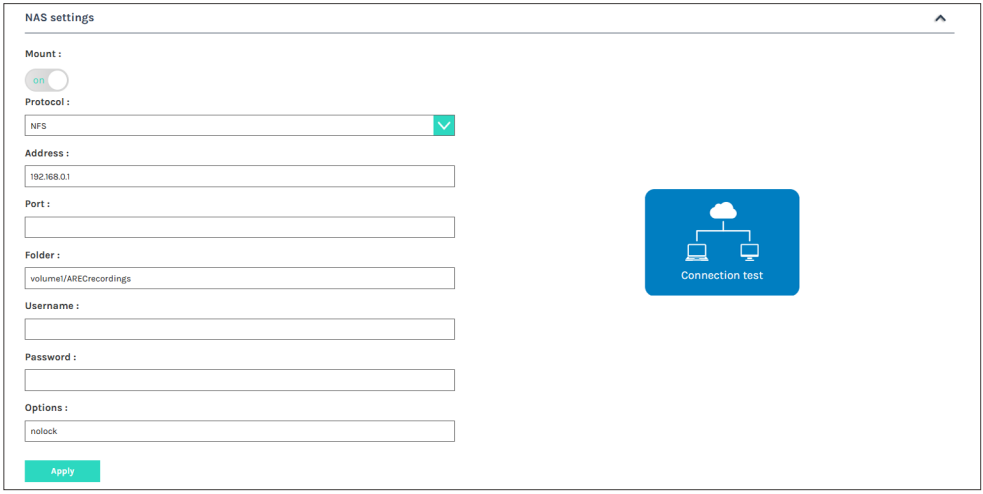
Record disk settings: select which device should be used as the station's primary storage or select OFF to disable storage. Click Apply to confirm changes.



NAS Settings: click the ⌄ button or under Mount toggle ON to see NAS settings.

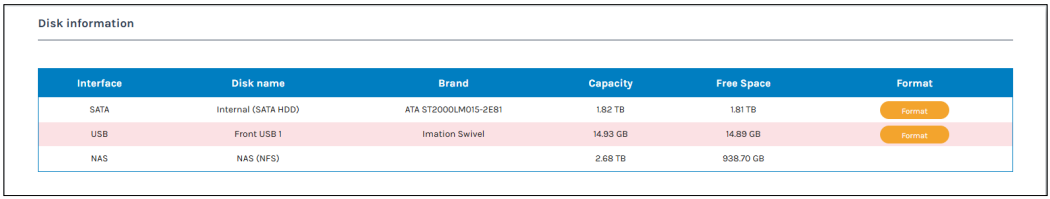
Specific setup steps may differ from one brand of NAS to another. Generally, to use NAS for storage via NFS, the procedure is as follows: enable NFS in the NAS, create a shared folder available to all IP addresses. This folder must have read/write permissions and no mapping. On the Media Station, enter the IP address of the NAS and enter the shared folder name and path. Add "nolock" without quotation marks in the Options field. Leave the Port, Username, and Password fields blank.

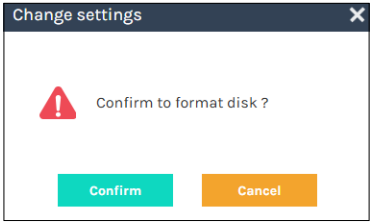
CIFS configuration is slightly different. To use this protocol, enable SMB3 in the NAS. Create a new account or give permission to an existing account to use SMB. This username must not contain any spaces. On the Media Station, enter the IP address of the NAS and enter the shared folder name and path, enter the account details of the account that was created/given permission to on NAS in Username and Password fields, and add "nobrl,vers=3.0" without quotation marks in the Options field.

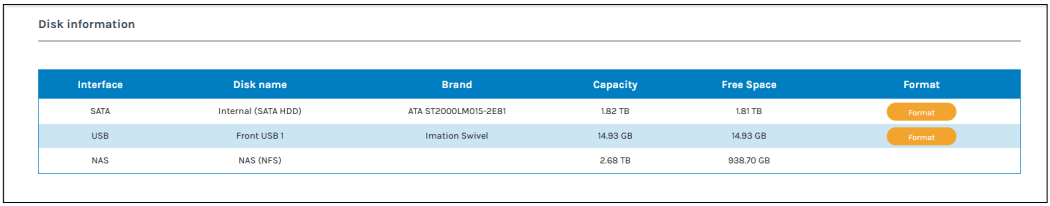


Disk information: connected storage devices are displayed here. Click Format to clear all data from a storage device and change its filesystem to match the requirements of the Media Station.

USB drives must be formatted by the Media Station before they can be used by it for primary storage.
Note that USB drives that are used for Copy to USB and Record to USB functions found in the Recording page do not need to be formatted by the Media Station to be used for these functions.





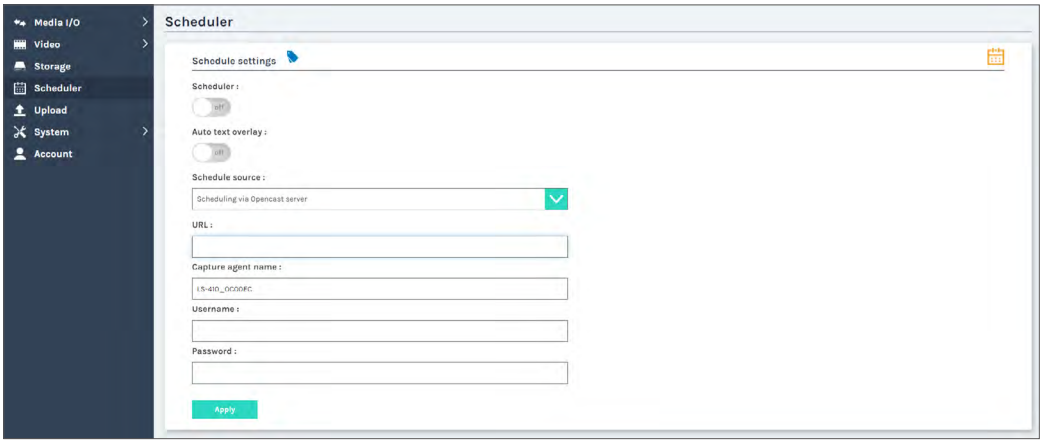


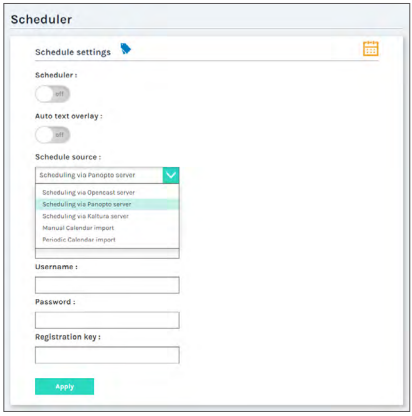
1.4 Scheduler

This page is used to configure recording and streaming schedules with .ics calendars (iCal) and integrated VCMS platforms: Kaltura, Opencast, and Panopto.

Scheduler: toggle ON to enable the Scheduler function. Toggle OFF to disable it.

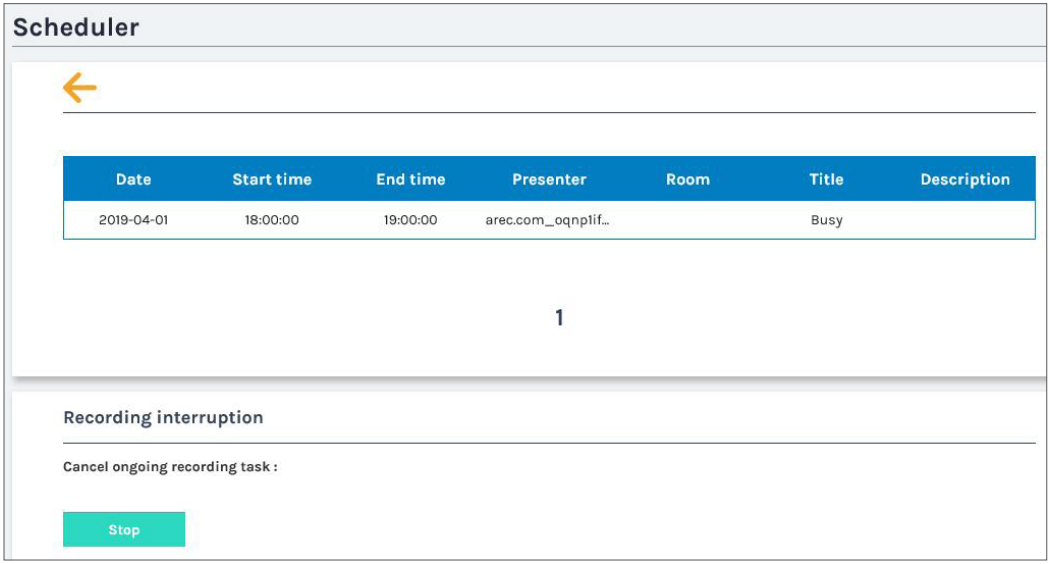
Auto text overlay: toggle ON to automatically display a textual overlay with the starting event's name. Toggle OFF to disable this feature.





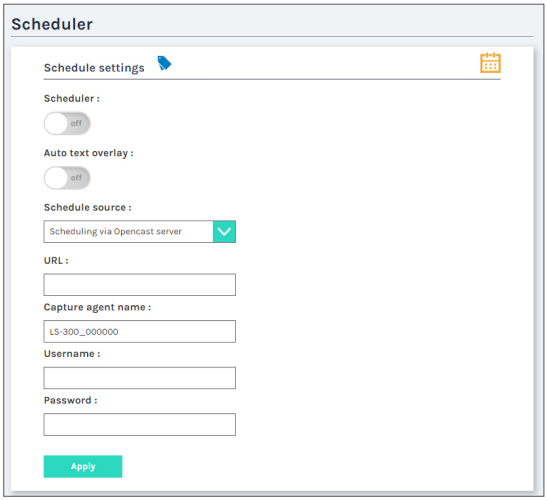
Available scheduling modes are:

- Scheduling via Opencast server: manage the schedule via Opencast.
- Scheduling via Panopto server: manage the schedule via Panopto.
- Scheduling via Kaltura server: manage the schedule via Kaltura.
- Manual Calendar import: manually import an .ics calendar. Events in the calendar will be added to the Media Station's schedule.
- Periodic Calendar import: link a calendar to the Media Station. The station will periodically check the calendar for new and changed events and adjust accordingly.



Click the button to open the scheduled events page.
Click Refresh to manually synchronise the station with the calendar/server.

1.4.1 Scheduling via Opencast Server

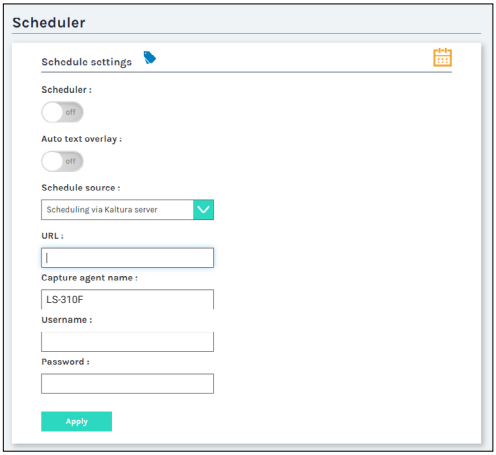


1. Enter the Capture agent name, Username, Password and URL in these fields.
   a. Capture agent name: the ID to recognize LS-310F on Opencast platform
   b. Username: Opencast user account
   c. Password: Opencast user password
2. Click Apply. The event schedule is added and appears in the calendar on the Scheduled Events page.
3. Go to Opencast admin, and check if the LS-310F is correctly registered on Opencast.

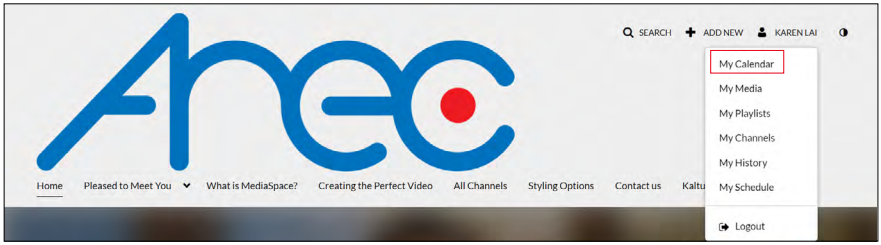
1.4.2 Scheduling via Kaltura Server

1. Enter the URL (https://www.kaltura.com), Capture agent name, Username and Password in these fields. Click Apply.

   a. Capture agent name: the ID to recognize LS-310F on Kaltura platform
   b. Username: Kaltura user account
   c. Password: Kaltura user password

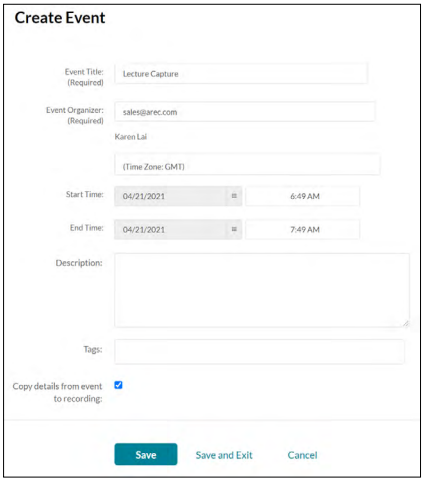


2. Enter the Kaltura MediaSpace. Select My Calendar from the user drop down menu.



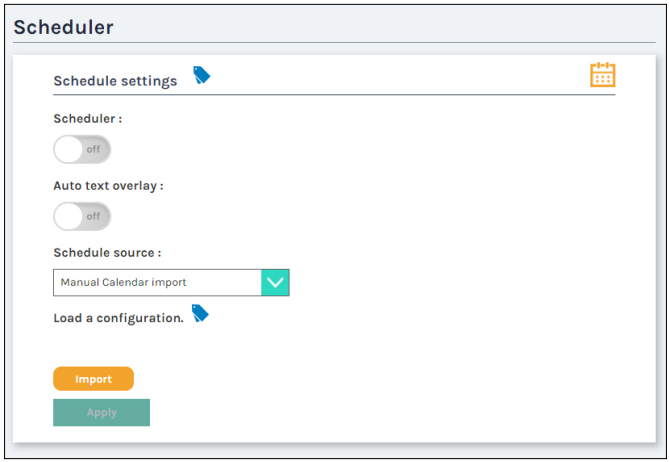
3. After entering the My Calendar page, click Create Event to create a schedule. Fill in Event Title and select Resource*. Click Save to complete the setting.

* Please select the preset Recoding device name as Resource.



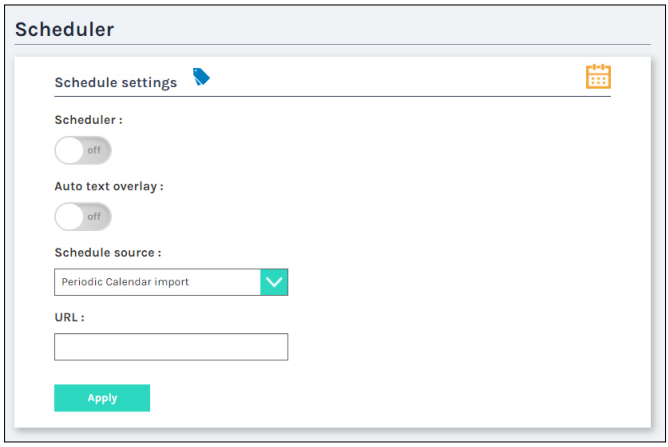
1.4.3 Scheduling via Manual Calendar Import

1. Click Import. This opens a file search.
2. Locate and select the calendar file to import. The file must have an .ics file extension.
3. Click Open. This closes the window and the file name will be displayed in the import panel.
4. Click Apply. The events from this calendar will be added to the scheduled events page.



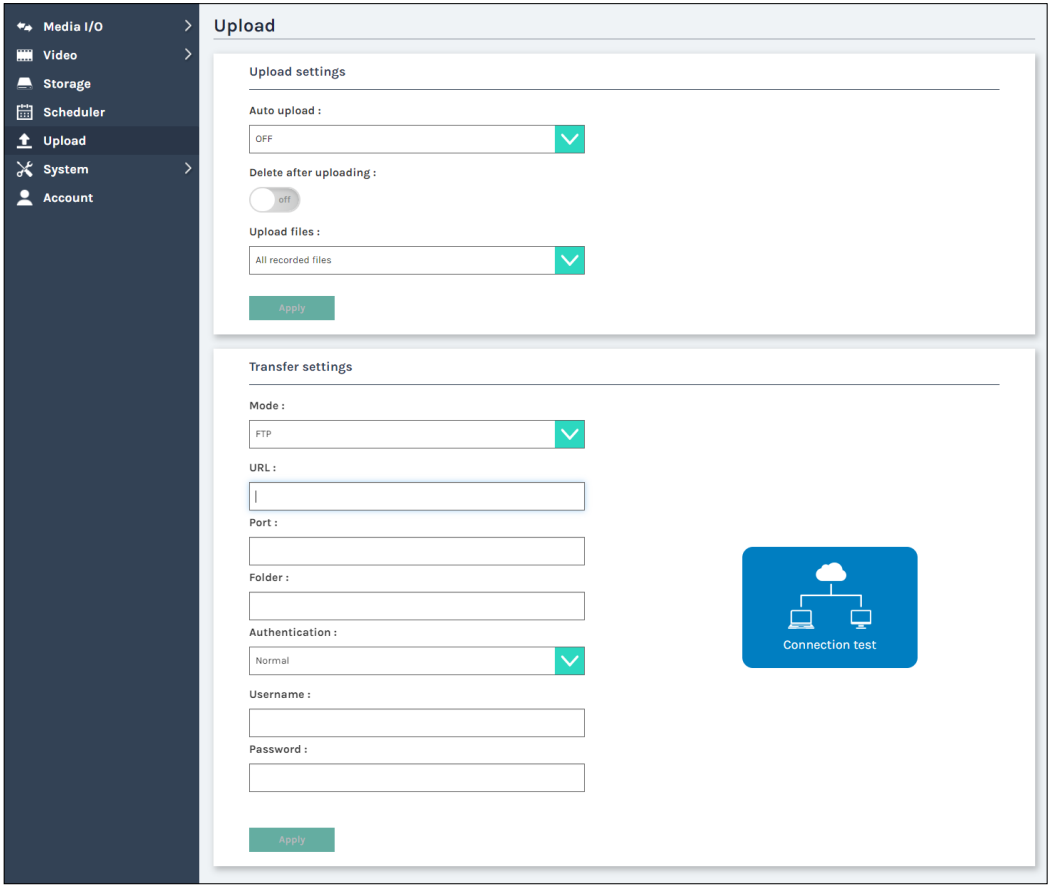
1.4.4 Scheduling via Periodic Calendar Import

1. Enter the public address of a calendar in iCal format in the URL field.
2. Click Apply. The Media Station will add events from the calendar to the scheduled events page.

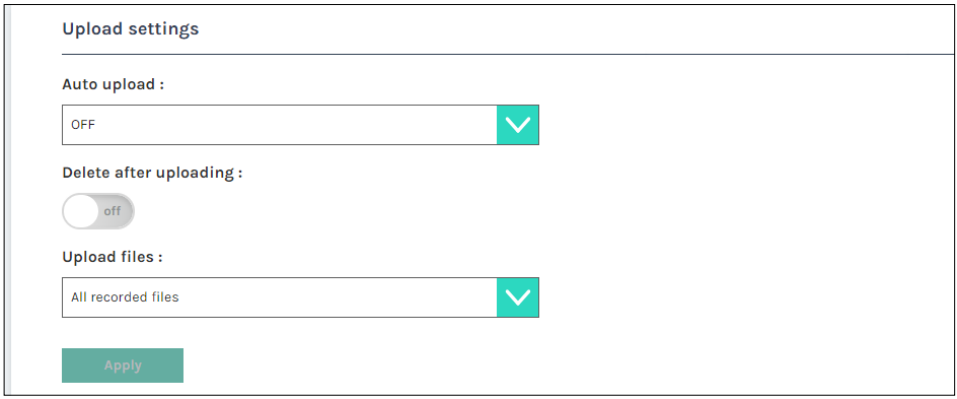


1.5 Upload

This page is used to configure automatic backup and backup destinations for the Media Station. Enable backup under Auto upload, choose which files to upload under Upload files, and set up upload mode and destination under Mode in Transfer settings.

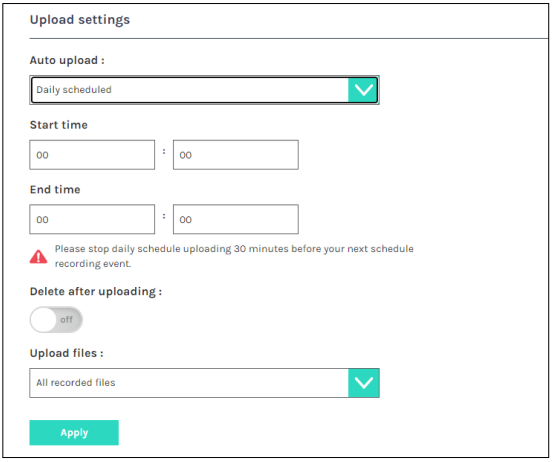


1.5.1 Upload Settings



1. Auto upload: select when the Media Station should back up videos. Available modes are:

- OFF: disable automatic upload.
- After recording is completed: a recording is backed up as soon as the recording is stopped.
- Daily scheduled: recordings are backed up in a specified time frame.

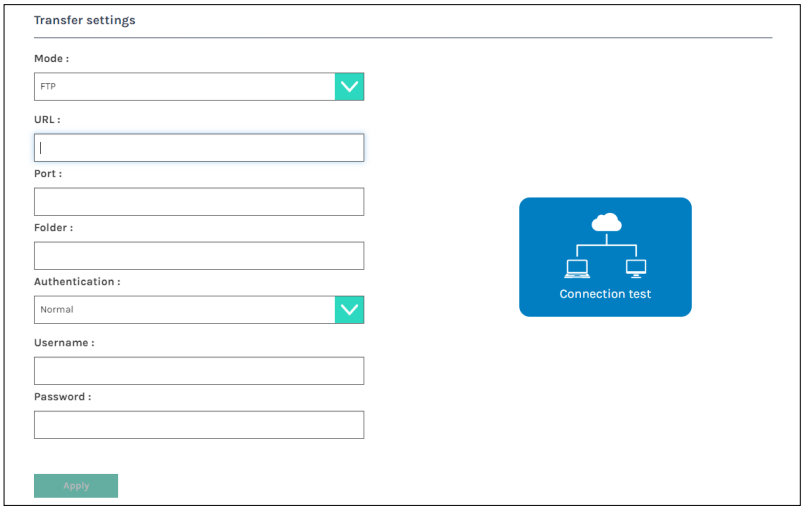


2. Delete after uploading: toggle this ON for the Media Station to automatically remove backed up recordings from its storage. Toggle OFF to disable this feature.

3. Upload files: select which files should be backed up. Options include:

- All recorded files: select this to back up the mixed video and the original sources' recordings.
- Mixed video: select this to back up only the mixed video.
- Original Source: select this to back up only the original sources' recordings.

1.5.2 Transfer Settings

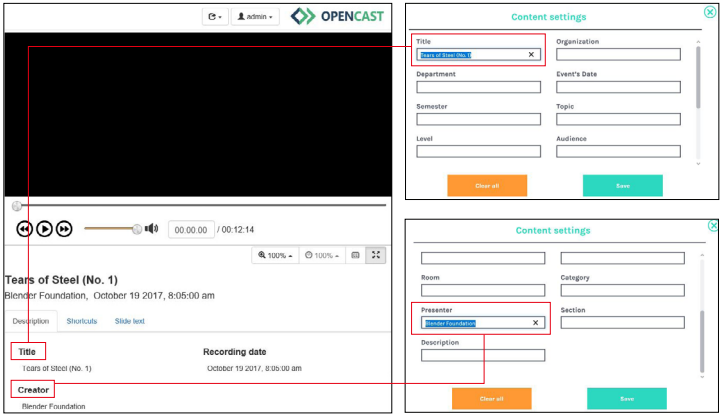


Upload settings must be configured according to the upload destination. The following settings are available:

- Mode: select network server type (FTP, SFTP, Opencast HTTP, Opencast HTTPS, Panopto, Kaltura FTP, Kaltura SFTP, Kaltura HTTPS, Google Drive).
- URL, port, or User ID: configure these fields according to the upload destination.
- Folder: enter the folder name of the upload destination.
- Authentication: configure this section according to the upload destination authentication method.
- Connection test: click the Connection test button to validate upload settings.

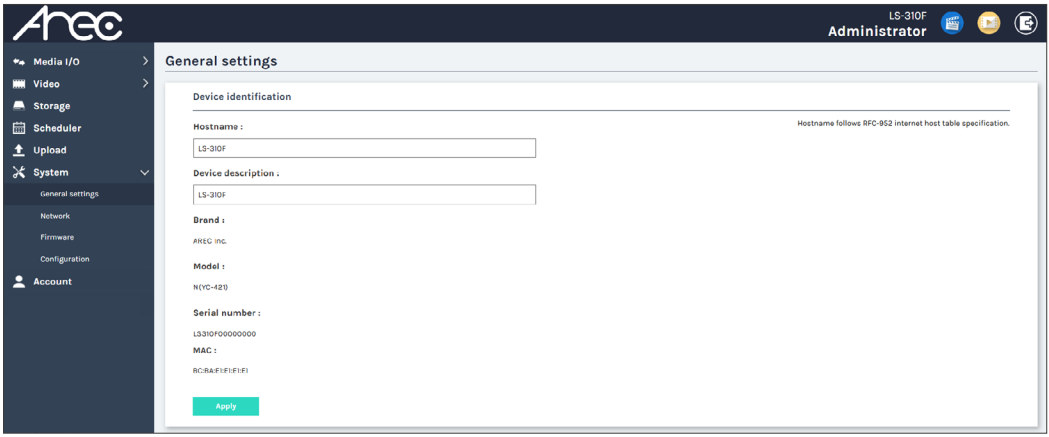
Click Apply after filling out the fields to save the changes. Newly recorded videos will be uploaded to the specified server if auto upload is enabled. The upload status of each video is displayed in the Video Manager page.
To upload previously recorded videos, select them in the Video Manager and press Upload.

Note: If the web server is Opencast, the video title and the creator description are automatically filled with the title and presenter of the Director's content settings.



1.6 System

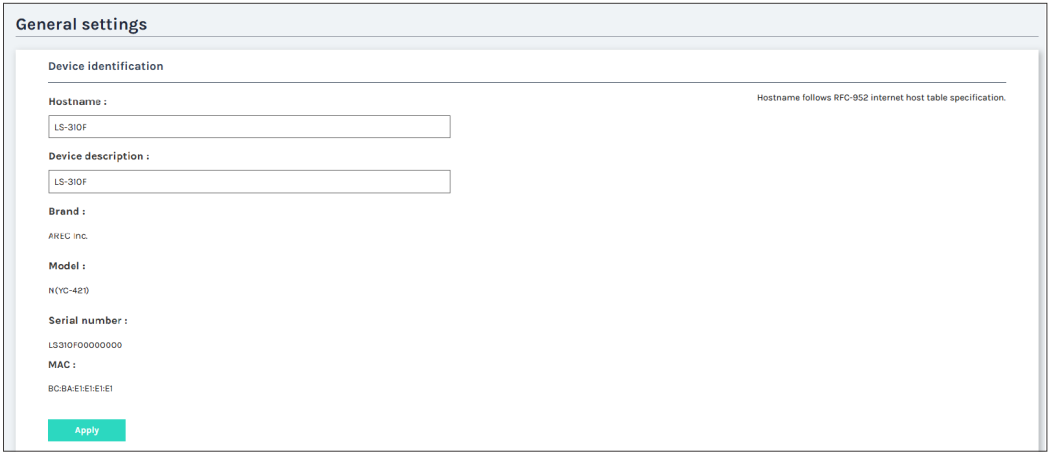
This group of pages gives access to the system, networking, and other related settings of a Media Station. The pages include:



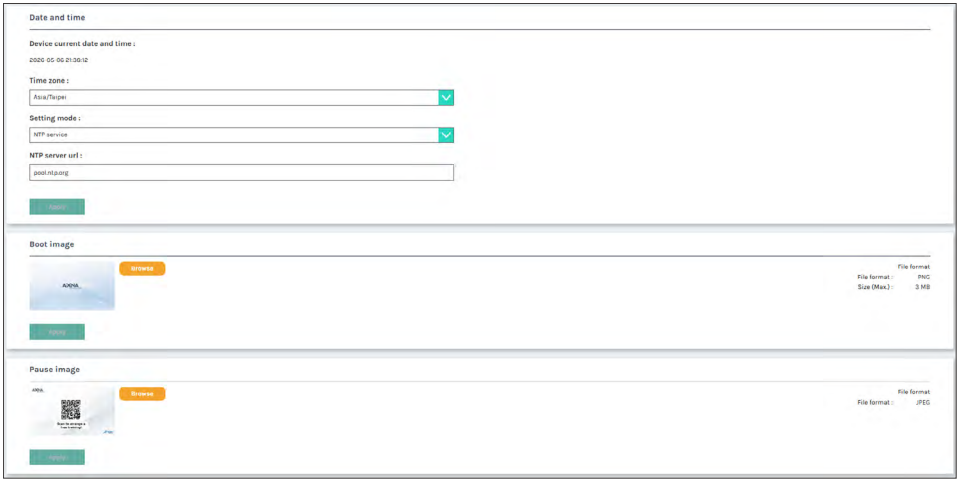
General settings	Contains device identification, date and time configuration, and booting settings.
Network	Configure the Media Station's network ports.
Firmware	Check the station's current firmware version, upload new firmware, and export system logs.
Configuration	Export/import the station's configuration and reset it to factory default settings.

1.6.1 General Settings

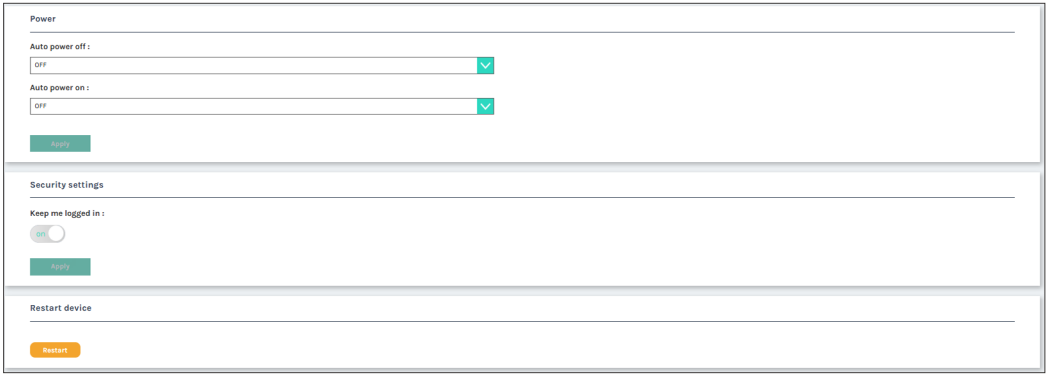
This page is used to configure the general settings of a Media Station, including its name, booting schedule, and startup and pause images.



Device identification: this controls the station's name and description and can be used to easily identify it.
Serial number: this number is important for firmware updates and for technical support.
MAC: this is the MAC address of the station on its WAN network port.



Date and time: choose to set the date and time automatically via an NTP server or manually under Setting mode.
Boot image: upload an image to display when the Media Station is booting up. This image must be .png and smaller than 3 MB.
Pause image: upload an image to display when the recording and/or streaming is paused. This image must be .jpg and its colour mode must be RGB.

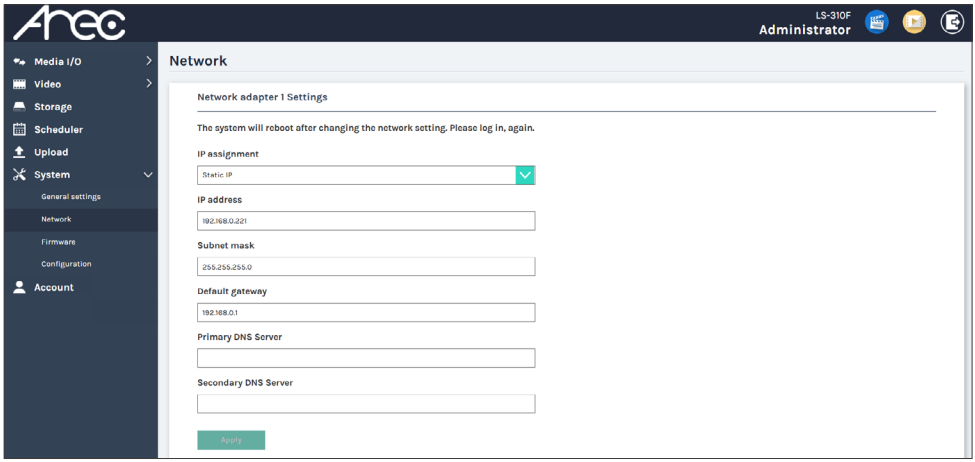


Power: in Auto power off, set the time when the Media Station will automatically turn off. In Auto power on, set the time when the Media Station will automatically turn on.
Security settings: in Keep me logged in, toggle ON to prevent automatic user timeout because of inactivity. Toggle OFF to automatically log out inactive users.
Restart device: click Restart to restart the Media Station.

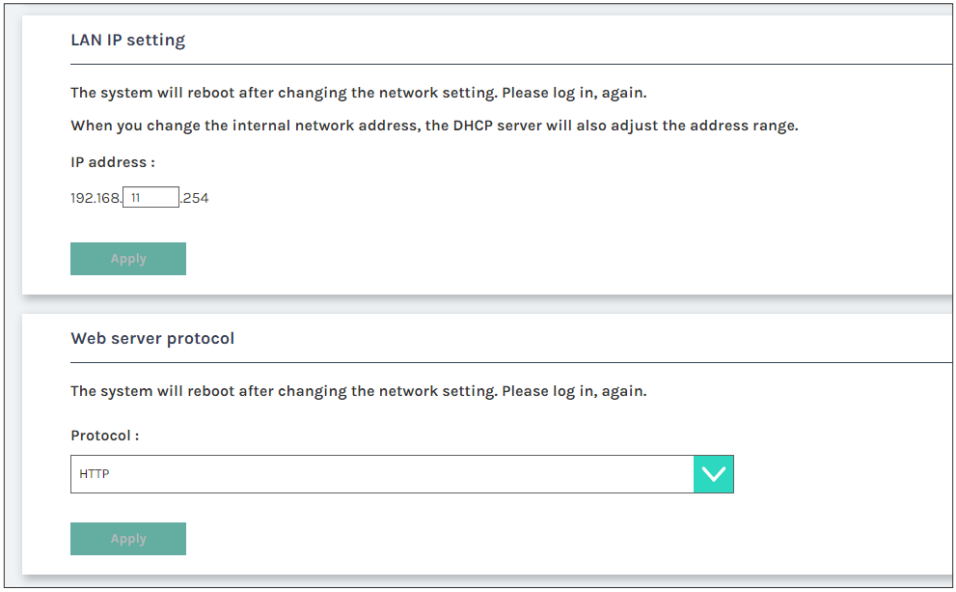
1.6.2 Network

This page is used to configure network settings of the Media Station. By default, the Media Station uses DHCP to obtain an IP address and network information from a router/DHCP server on its WAN port. On the LAN port, the default IP address of the Media Station is 192.168.11.254. The Media Station functions as a DHCP server on its LAN port, meaning that it assigns IP addresses to other devices connected to its LAN port, including network switches.

The station's WAN port is configured at the top of the page under Network settings.



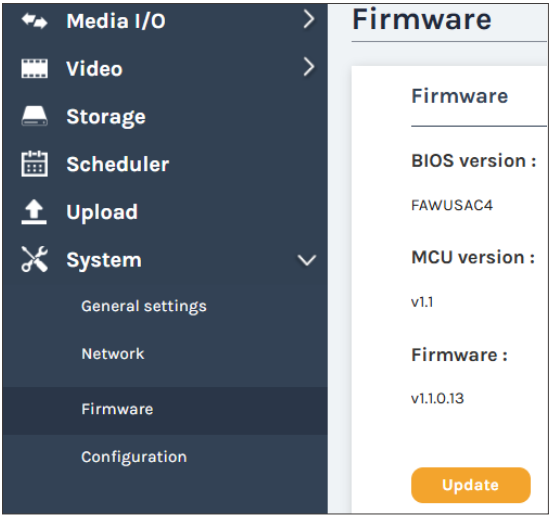
Under IP assignment, choose DHCP for the station to get the IP address and network settings automatically from the connected network, or choose Static IP to configure everything manually. After filling out the necessary fields, click Apply to confirm the changes. The station will automatically reboot with the new networking information, so if the IP was changed, use the new IP address to access the station.



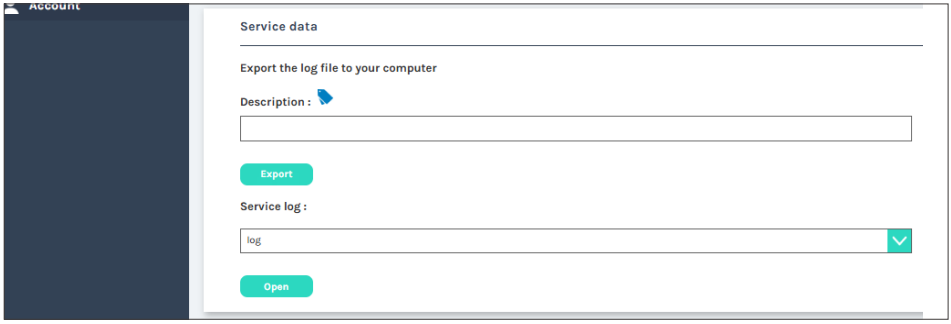
LAN IP setting: modify the third octet of the LAN IP address (192.168.XXX.254). The station will automatically reboot after changes are applied. To avoid IP conflict, ensure that the LAN and WAN port IP addresses are in different subnets.
Web server protocol: change the Media Station's web interface protocol. It can be either HTTP or HTTPS.

1.6.3 Firmware

This page shows the current firmware version of the Media Station and allows you to update it. Firmware updates can be downloaded from www.a-dena.com
Note that some firmware updates require a reset to factory default settings after the update. Make sure to check firmware release notes before updating the firmware.



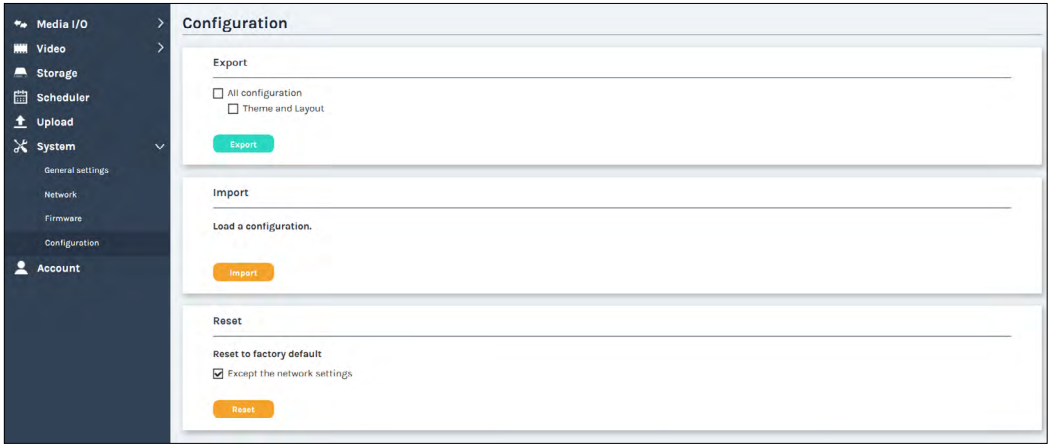
To update a firmware, click Update. Find and select the firmware update file and confirm to apply it. The station will automatically reboot after a firmware update. If the firmware requires a reset to factory default settings, make sure to reset the station after it finishes booting up.



Service data: if you are experiencing abnormal issues with the Media Station, click Export to export the Media Station's logs and service data or Open to check the general system log. The logs consist of three files: .tar, .dat, .config.
Note that some browsers may prompt you to accept to keep these files, or issue a notification about multiple files being downloaded and require confirmation to allow it. Ensure that all three files are saved when exporting logs, then send them to your AREC vendor with a description of the issue. Alternatively, you can submit a ticket through our website www.a-dena.com → For Partners → ADENA Tech Support form. The form will provide an email address to send the logs to.

1.6.4 Configuration

This page is used for managing configuration files and resetting the Media Station.



Tick which configuration to save, then click Export to download it. Note that if you are exporting configuration in order to use the AREC Layout Editor software, you must export only Theme and Layout.

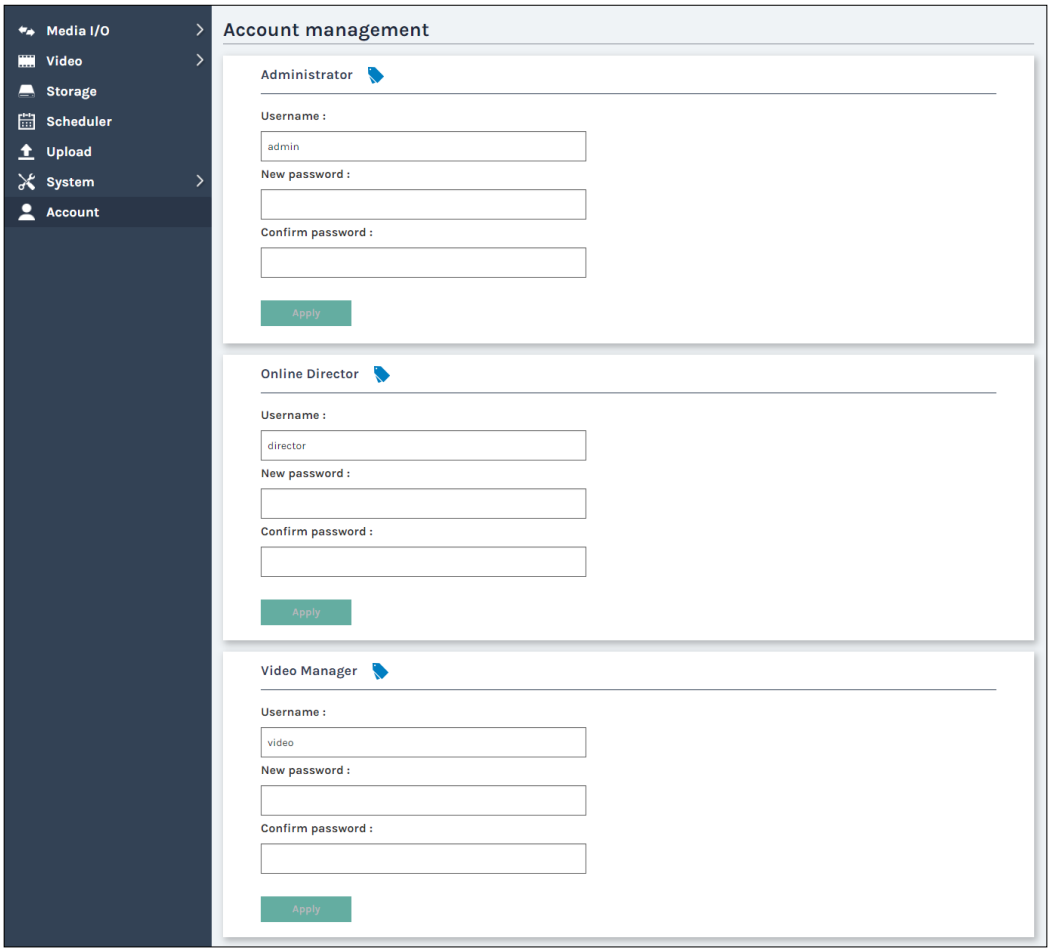
Click Import to upload a configuration in the Media Station. The station may automatically reboot to apply changes.

Click Reset to restore factory default settings on this Media Station. Note that:

- Resetting the Media Station will erase all of its settings. Recorded videos are not erased.
- If a firmware update requires a factory default reset, it is not advised to reupload configuration files from previous firmware versions, as it may cause unexpected behaviour and issues.
- It is possible to preserve the station's network settings. Tick Except the network settings before resetting.

1.7 Account

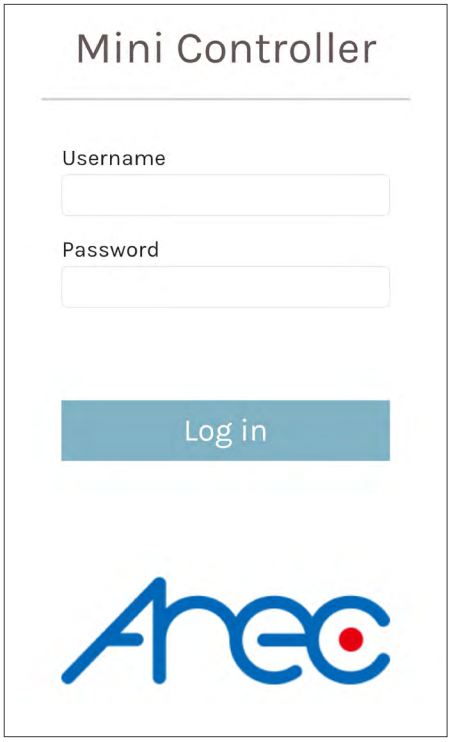
This page controls the username and password of the three types of accounts available on the Media Station.



To change the username or password of any account, enter the new credentials in the fields and click Apply.
Note that usernames and passwords can be changed only by the Administrator user. If the Administrator's username or password was lost and the system became inaccessible, it must be reset to factory default settings.

Chapter 2 Mini Controller, the Graphical User Interface (GUI), and Online Director

2.1 Mini Controller (Web Interface for Mobile Devices)

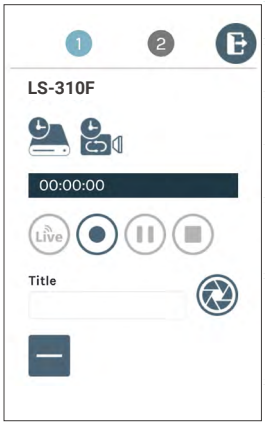


Mini Controller is a special web interface designed for mobile devices. It is accessible via standard browsers and does not require installation of applications. Using the Mini Controller, users can control key functions of the Media Station.

Administrator and Online Director accounts can be used to log in the Mini Controller.

2.1.1 Page 1

The first page allows users to control the recording and streaming processes.



Name	Function
1 Page 1	Click to open the first page.
2 Page 2	Click to open the second page.
Exit	Click to log out from the Mini Controller.
Device description	Shows the Device description (configured on the Administrator → System → General settings page).
Maximum recording time	Shows how long the recording can be considering the available storage and maximum recording length of this Media Station. Time is not displayed if Loop recording is on.
Loop recording	Indicates that Loop recording is enabled.
USB maximum recording time	Shows how long the recording can be on the USB considering the available storage and maximum recording length of this Media Station. Time is not displayed if Loop recording is on.
00:00:00 Recording length	Shows how long the station has been recording.
Streaming together with recording	This icon is displayed if the station is recording. It shows that the streaming mode is set to Together with recording.
LIVE Streaming indicator	Shows that the station is streaming.
Live Streaming control	Start or stop streaming. This button is available if the streaming mode is set to Enable streaming button.
Record	Click to start recording.
Pause	Click to pause recording.
Stop	Click to stop recording.
Bookmark title	Give a title to a bookmark and click Snapshot/bookmark to save it. This function only applies to bookmarks (snapshots taken while recording is in progress).
Snapshot/ bookmark	Click to take a snapshot image of the mixed video. If a recording is in progress, click to create a bookmark (snapshot + timestamp in the video). If a Bookmark title was entered, it will be used as the title of this bookmark.
Hide/show the GUI	Click to hide or show the GUI.

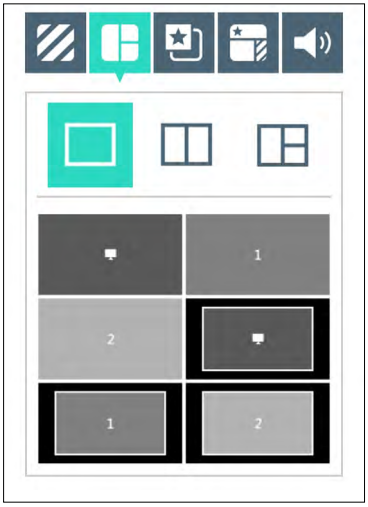
2.1.2 Page 2

The second page allows users to control the mixed video's design and audio settings.



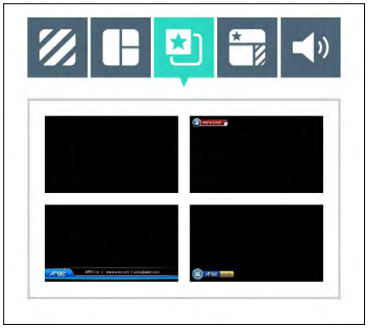
Background

Shows all available backgrounds on this Media Station. Click a background to apply it.



Layout

Shows all available layouts on this Media Station. Layouts are divided into groups by the number of channels in a layout. Click on a layout to apply it.



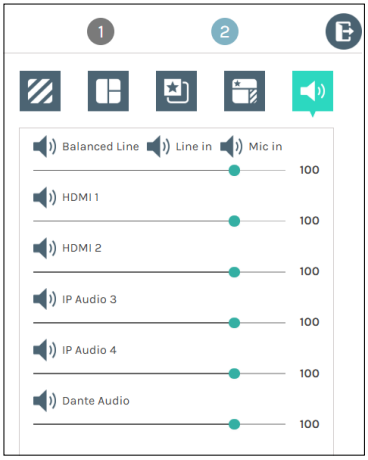
Overlay

Shows all available overlays on this Media Station. Click an overlay to apply it.



Theme

Shows all available themes on this Media Station. Click on a theme to apply it.



Volume control

Shows the current audio inputs of the Media Station and their volume. Drag the sliders to adjust volume. Click on a speaker icon next to the audio input to mute or unmute it.

2.2 The GUI

By default, the mixed video output of the Media Station (Display 1 HDMI output) comes with a control bar. It is called the Graphical User Interface (GUI). This bar is not recorded or streamed. Its purpose is to control key functions of the Media Station. To use the GUI, connect a computer mouse or a touch screen via USB.

The GUI can be disabled on the Administrator → Media I/O → Display page.



2.2.1 Overview of the GUI Functions

These are the functions of the GUI:



	Hide/show the GUI	00:00:00	Recording length		Settings
	Overlay		Streaming on/off		Camera control
	Layout		Record	10.2.50.152	WAN IP address
	Background		Stop		Audio volume
	Theme		Snapshot/ bookmark		Loop through (HDMI)
LIVE	Stream status		Playback		Loop through (DP)

2.2.2 Video Output Controls

These functions control the mixed video design and loop through output modes.

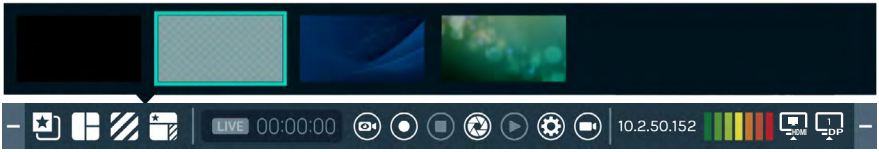
Overlay: click to see all available overlays on the Media Station. Click on an overlay to select it.



Layout: click to see all available layouts on the Media Station. Click on a layout to select it.



Background: click to see all available backgrounds on the Media Station. Click on a background to select it.



Theme: click to see all available themes on the Media Station. Click on a theme to select it.



Loop through: click to cycle available loop through modes. By default, loop through can mirror mixed video, display a particular video channel, or display all video channels.
Click the HDMI loop through button to cycle Display 2 output or DP loop through to cycle DP output.

2.2.3 Recording, Streaming, and Snapshot/Bookmark Control

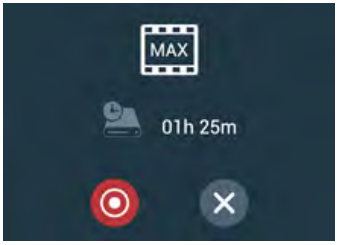
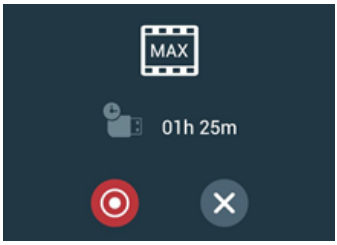
These functions allow the user to control the recording and streaming processes and take snapshots/create bookmarks in the recording.

Name	Description
 Streaming status	Shows the current streaming status of the Media Station. The icon changes to red when the station is streaming.
00:00:00 Recording length	Shows the current recording length. Numbers turn red when the recording is in progress. Numbers turn yellow when the recording is paused.
 Streaming control	Start or stop streaming. This button is available if the streaming mode is set to Enable streaming button.
 Record	Start recording. The recording button turns red when the station is recording.
 Pause	Pause recording.
 Stop	Stop recording.
 Snapshot/ bookmark	If the station is not currently recording, this creates a snapshot image. If the station is recording, this creates a bookmark and an associated snapshot image. Snapshots can be accessed through the Video Manager page. Bookmarks and associated snapshots are accessed through Playback and the recording's Data set.

2.2.4 Recording Length Limit and Associated Messages

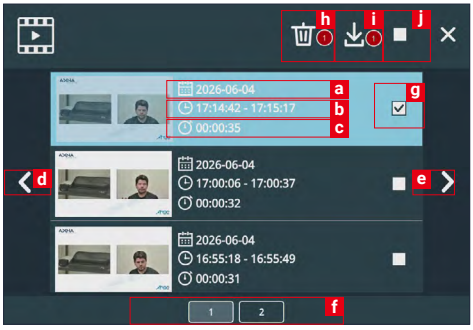
The maximum recording length of the Media Station is 16 hours. The station will display a warning if the primary storage or a connected USB drive does not have enough space for the maximum recording length. This warning will display how long the recording can be until there is no more space. When the message is displayed, press the record button to start recording anyway.

Note that file systems affect the maximum possible file size. For example, the maximum file size on FAT32 is 4 GB. Consequently, this limits the maximum recording length on storage devices using such file systems.

If the primary storage does not have enough space for the maximum recording length, this type of message is displayed. Time indicates the maximum possible recording length for the remaining storage.	
If the connected USB storage does not have enough space for the maximum recording length OR its file system limits the recording size, this type of message is displayed. Time indicates the maximum possible recording length for the remaining storage.	

2.2.5 Playback Video

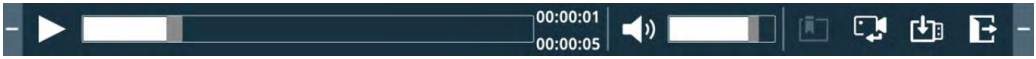
■ Clicking the playback button on the GUI opens this menu



This menu shows pages with all recorded videos stored on the primary storage. The menu functions and descriptions are as follows:

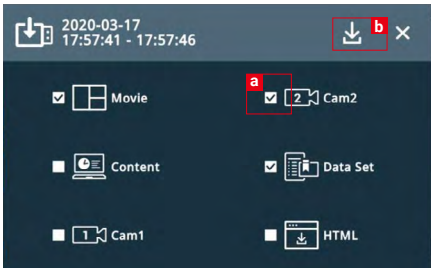
a. Recording date
b. Start and end times of the recording
c. Length of the recording
d. Open the previous page (newer recordings)
e. Open the next page (older recordings)
f. Open a particular page
g. Select a recording to copy to the connected USB drive
h. Click to erase the recording
i. Click to export the selected recordings to the connected USB drive
j. Click to select all recordings on this page

■ Click on a recording to start its Playback. When playback is started, the interface changes. Here is the description of available functions:



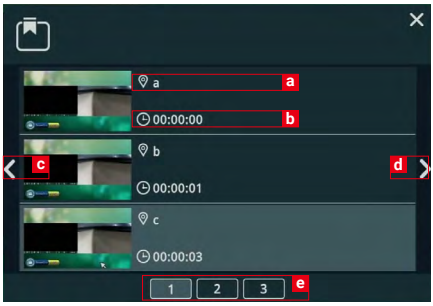
Name	Description
Play/pause	Click to play or pause the playback.
Time bar	Click anywhere on the time bar to skip to this time in the video.
00:00:00 / 00:00:02 Time information	Displays the video length and the current time in the playback.
Mute/unmute	Click to mute or unmute the video.
Bookmark	Click to open available bookmarks. Click on a bookmark to jump to the bookmark's timestamp.
Channel selection	Click to open recorded channels. Click on a channel to watch it.
Mixed video	Click to watch the mixed video (appears after clicking Channel selection).
Content channel	Click to watch the content channel (appears after clicking Channel selection).
1 Channel 1	Click to watch channel 1 (appears after clicking Channel selection).
2 Channel 2	Click to watch channel 2 (appears after clicking Channel selection).
Copy to USB	Click to choose which elements of the recording to export.
Exit	Click to exit the playback menu.

■ After clicking Copy to USB in the playback menu, this menu opens. Use it to choose which elements of the recording to export to a connected USB drive.



a. Tick boxes next to the files that need to be exported
b. Click this button to export the selected files

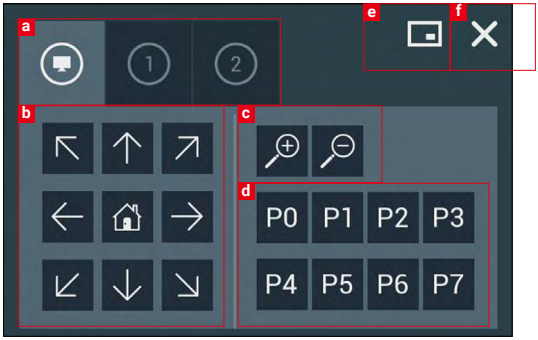
■ After clicking Bookmarks in the playback menu, this menu opens.



a. Bookmark's title
b. Bookmark's timestamp
c. Open the previous page (bookmarks closer to the start of the recording)
d. Open the next page (bookmarks closer to the end of the recording)
e. Open a particular page

2.2.6 Camera Control

Click on the Camera Control button in the GUI to open the camera control menu. Use the functions as follows:

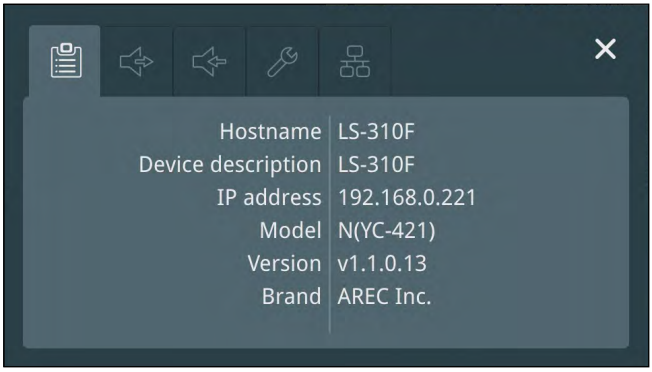


a. Select which channel to control
b. Control the source's pan and tilt movement with arrows. Click  to return the source to its home preset
c. Zoom in or out
d. Call presets 0 to 7 using the preset buttons
e. Change the menu position on the mixed video output
f. Close the menu

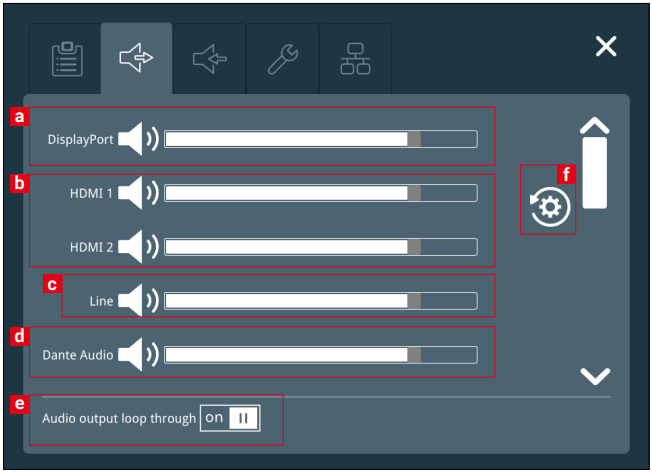
2.2.7 Settings

Click on the Settings button to open the station's settings and information menu.

The first page shows general information about the station, its IP address, and the firmware version.

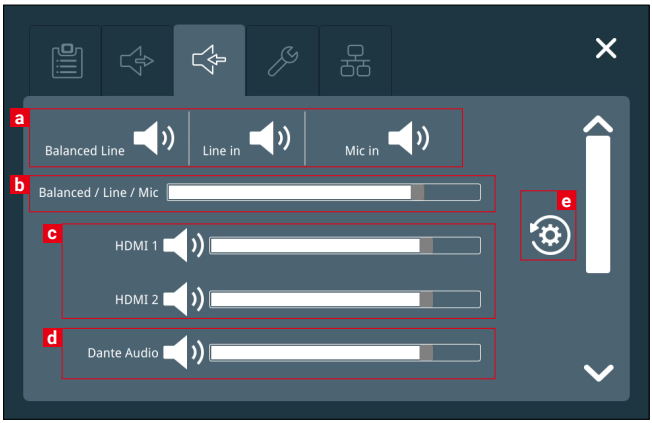


The second page contains audio output volume controls. Drag any of the sliders to adjust this output's volume. Tap on any of the speaker icons to mute/unmute this output.

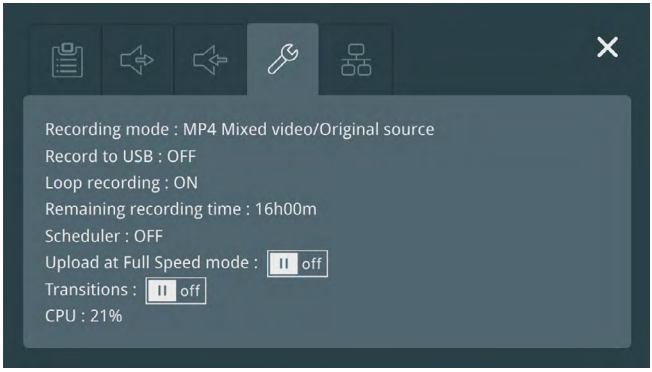


a. DisplayPort (DP) output volume
b. HDMI 1 (Display 1) output volume
HDMI 2 (Display 2) output volume
c. Line output volume
d. Dante Audio output volume
e. Audio output loop through toggle: toggle ON to output audio through the physical interfaces of the Media Station. Toggle OFF to disable audio output through physical interfaces
f. Restore default output volume settings

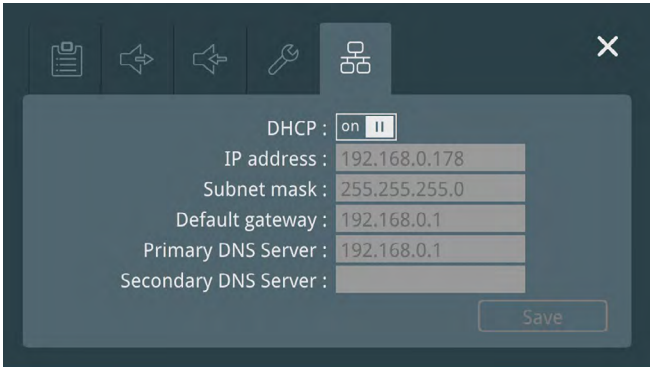
The third page contains audio input volume controls. Drag any of the sliders to adjust this input's volume. Tap on any of the speaker icons to mute/unmute this input.



a. Balanced Line (Phoenix input)
   Line in (3.5mm line input)
   Mic in (3.5mm mic input)
b. Balanced, line, and mic inputs volume
c. HDMI 1 input volume
   HDMI 2 input volume
d. Dante Audio input volume
e. Restore default input volume settings



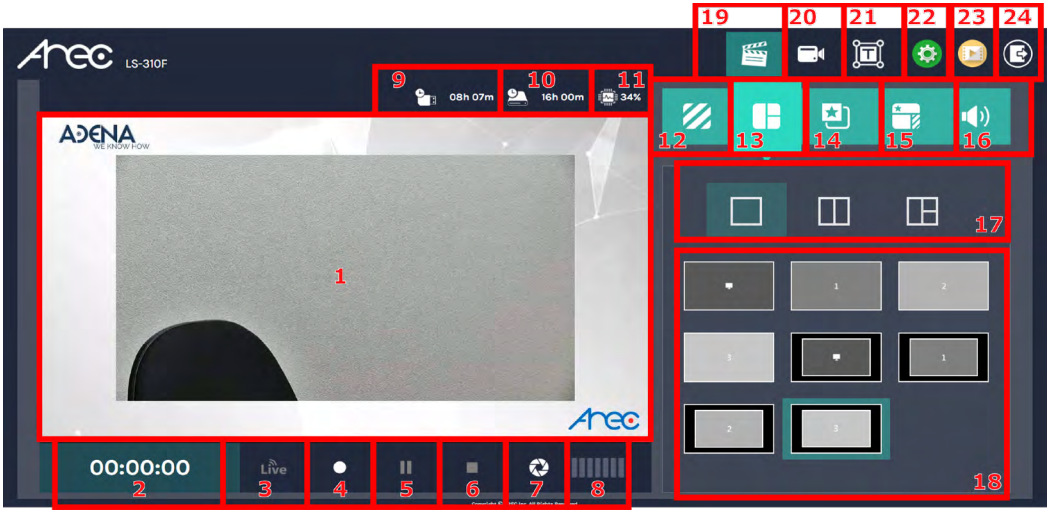
The fourth page shows various settings and information about the station's recording mode and capacity, and other parameters.
Toggle Upload at Full Speed mode to enable/disable fast video upload. Note that when this mode is enabled, the station is unable to perform other tasks, e.g. record.
Toggle Transitions to enable/disable the fade out /fade in transition effect.



The last page allows users to modify the station's WAN port parameters.
Toggle DHCP to enable/disable it. When disabled, network parameters can be filled out manually.

2.3 Online Director

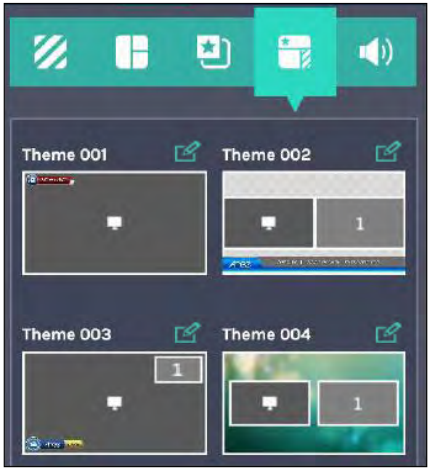
The Online Director page is the main control interface of the Media Station. It can be accessed through the Administrator and Video Manager pages by clicking the button or by logging in from the station's IP address landing page.



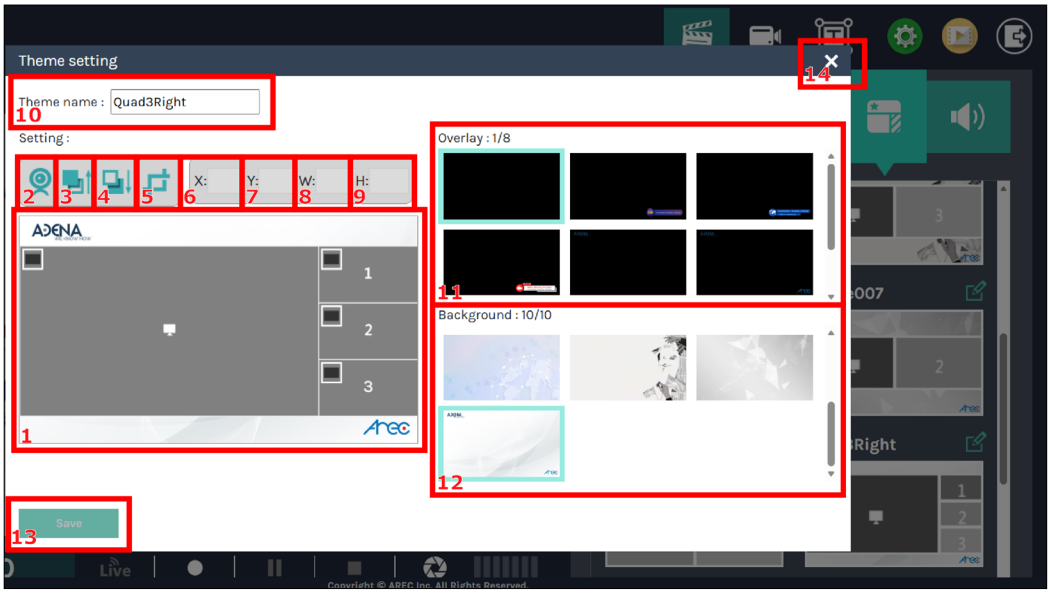
1. Preview window: displays the mixed video (PGM output of the station, what it is recording and streaming).
2. Time: displays the time length of the current recording session.
3. Live: click to start and stop streaming independently from recording. This button is only available if at least one of the streams is in Enable streaming button mode.
4. Record: click to start recording. If the recording is paused, click to resume recording. Clicking this will also start streaming if at least one of the streams is in Together with recording mode.
5. Pause: click to pause recording. Streams can only be paused if recording is in progress. Unpause by clicking Record.
6. Stop: click to stop recording. If a stream is in Together with recording mode, it will also automatically stop the streaming.
7. Snapshot: click to take a snapshot. If recording is in progress, clicking will also create a bookmark/timestamp in the recording.
8. Audio: indicates the current audio input volume.
9. Front USB storage capacity: displays the maximum recording length that will fit on the connected USB storage device, up to the maximum recording length limit of the station. This indicator appears only if a USB drive is connected to the station and the station is in Record to USB or Copy to USB mode.
10. Primary storage capacity: displays the maximum recording length that will fit on the primary storage, up to the maximum recording length limit of the station.
    Recording length is not displayed if Loop recording is enabled. In this case, the duration is replaced by the Loop recording indicator.

11. CPU usage: displays the current CPU usage of the station. The indicator turns red when the CPU usage is very high.
12. Backgrounds: click to show all available background images below. Click on a background to start using it.
13. Layouts: click to show all available layout types (17) and layouts for a selected type (18).
14. Overlays: click to show all available overlay images below. Click on an overlay to start using it.
15. Themes: click to show all available themes below. Click on a theme to switch to it.
16. Audio inputs: click to show all audio inputs below. Drag volume bar sliders to increase/decrease volume and click on speaker icons to mute/unmute inputs.
17. Layout types by channels: click to change the type of layout that is displayed below (18). The number of options here depends on how many channels a model supports.
18. Layouts: click on a layout to start using it.
19. Director tab: click to open the Director's tab (this page).
20. Cameraman tab: click to open the Cameraman tab. It is used to control PTZ and preview video channels individually.
21. Textual overlay tab: click to open the Textual overlay tab. It allows you to create and edit a textual overlay.
22. Administrator page: click to open the Administrator page.
23. Video Manager page: click to open the Video Manager page.
24. Log out: click to log out.

2.3.1 Editing Layouts and Themes in the Online Director



It is possible to edit layouts and themes in the Online Director. Click the button next to a theme to start editing this theme and its associated layout.
Note that by editing a layout, you are editing it everywhere in the system. If you need this particular layout as it is, create a new theme with a layout that is not required and edit it instead.



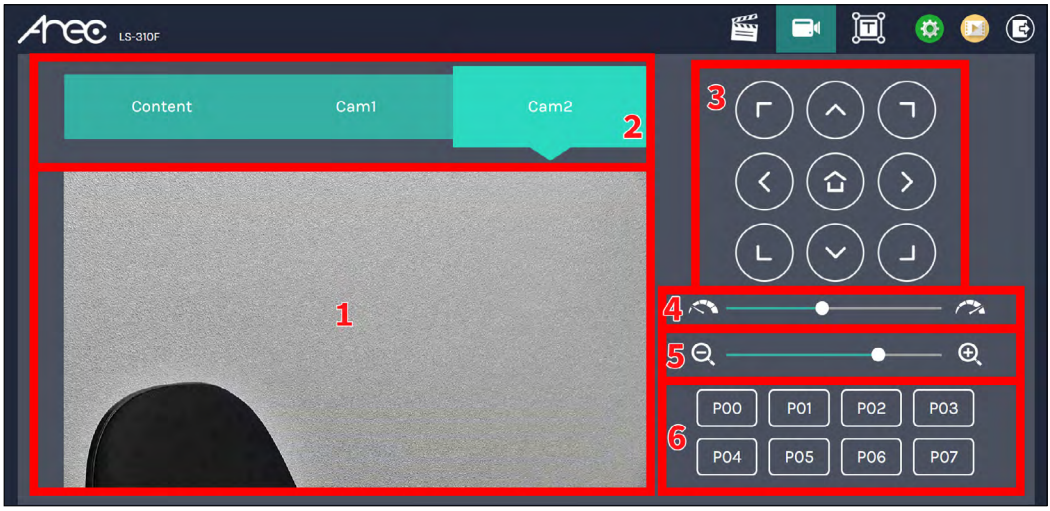
Here is what each function allows you to do:

1. Selected theme: this is how the currently selected theme looks like. Click on a channel to change its number (2), arrangement (3/4), crop mode (5), coordinates (6/7) and dimensions (8/9). Click and drag a channel to reposition it, or click and drag its corner to resize it.
2. Channel number: after a channel is clicked (1), click to change its channel number. If two or more channels share the same channel number, the theme cannot be saved.
3. Bring forward: after a channel is clicked (1), click to bring this channel forward relative to other channels.
4. Send backward: after a channel is clicked (1), click to send this channel backwards relative to other channels.
5. Aspect ratio: after a channel is clicked (1), click to change its crop mode. Options include:
   - Letter box: scale the channel to fit the dimensions (8/9) while preserving aspect ratio. A channel with this crop mode has a black rectangle symbol.
   - Fit to Width: scale the channel to match horizontal dimensions (8) while preserving the ratio, cutting/cropping vertical parts of the channel that do not fit (9). A channel with this crop mode has a two-sided horizontal arrow symbol.
   - Fit to Height: scale the channel to match vertical dimensions (9) while preserving the ratio, cutting/cropping horizontal parts of the channel that do not fit (8). A channel with this crop mode has a two-sided vertical arrow symbol.
   - Fill: stretch the channel to completely fill the dimensions (8/9). A channel with this crop mode has a symbol with arrows pointing at all corners.
6. X coordinates: after a channel is clicked (1), this shows the horizontal position of the selected channel. Set a number from 0 to 100 to change the channel position. 0 is the left-most edge of a layout.
7. Y coordinates: after a channel is clicked (1), this shows the vertical position of the selected channel. Set a number from 0 to 100 to change the channel position. 0 is the top-most edge of a layout.
8. Width: after a channel is clicked (1), this shows the channel's width. Set a number from 0 to 100 to change it.
9. Height: after a channel is clicked (1), this shows the channel's height. Set a number from 0 to 100 to change it.
10. Theme name: set the name of this theme.
11. Overlay: shows available overlays in a list. Click on an overlay to apply it to this theme.
12. Background: shows available backgrounds in a list. Click on a background to apply it to this theme.
13. Save: click to save changes to the theme.
14. Close: click to close the theme editor without saving changes.

Changes to themes are applied instantly when you click Save. However, if you had this theme selected, the changes will be visible only if you reapply this theme.

2.3.2 Channel Monitoring Page (Cameraman Tab)

This page allows monitoring the station's individual video channels and control PTZ.



Here is what each function does:

1. Preview window: displays the selected video channel (2) or the station's mixed video.
2. Channel selection: click to change which video channel to preview (1) and control.
3. Pan, tilt, home: click on arrows to pan and/or tilt the video source. Click the button to activate the home preset of the video source.
4. Speed: drag the slider or click on the buttons to lower or increase the pan and tilt speed of the video source.
5. Zoom: drag the slider or click on the buttons to zoom in or out. The zoom bar will be greyed out if the source does not support zoom position feedback.
6. Presets: click a preset number to toggle this preset for the selected video source.
   If using NDI|HX, P00 activates preset 1, P01 activates preset 2, and so on, since preset 0 is not available in this protocol.

If the recording mode is set to 1080p50 or 1080p60, individual channel preview will be replaced with mixed video preview.

2.3.3 Textual Overlay Page

This tab allows you to create, customise, and position a textual overlay on top of the mixed video.



Here is what each button and function does:

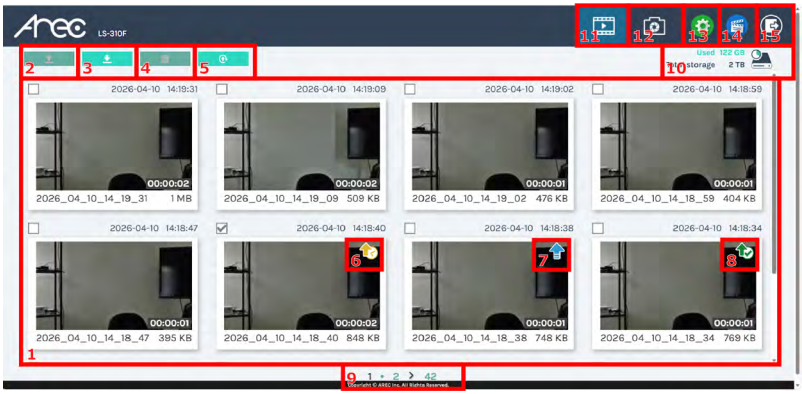
1. Preview window: displays the current layout, background, and overlay of the Media Station.
2. Textual overlay: by default, the textual overlay is at the very centre of the preview window (1). To change its position, click and drag anywhere within the preview window.
3. Colour: click on any colour to change the textual overlay to this colour.
4. Bold: click to make the textual overlay bold.
5. Align: click to centrally align the textual overlay.
6. Font size: click to change the textual overlay's font size.
7. Font: click to change the textual overlay's font.
8. Text box: click and type what the textual overlay should say. Click Clear to remove the text and restore default parameters, or click Apply to confirm the textual overlay and display it in the mixed video.

Once applied, the textual overlay will be displayed until the station's overlay is changed (directly or via a theme change) or the station is rebooted.

Chapter 3 Video Manager

3.1 Video Management

The Video Manager page is used to playback, download, upload, and manage recorded videos. It can be accessed through the Administrator and Online Director pages by clicking the button or by logging in from the station's IP address landing page.

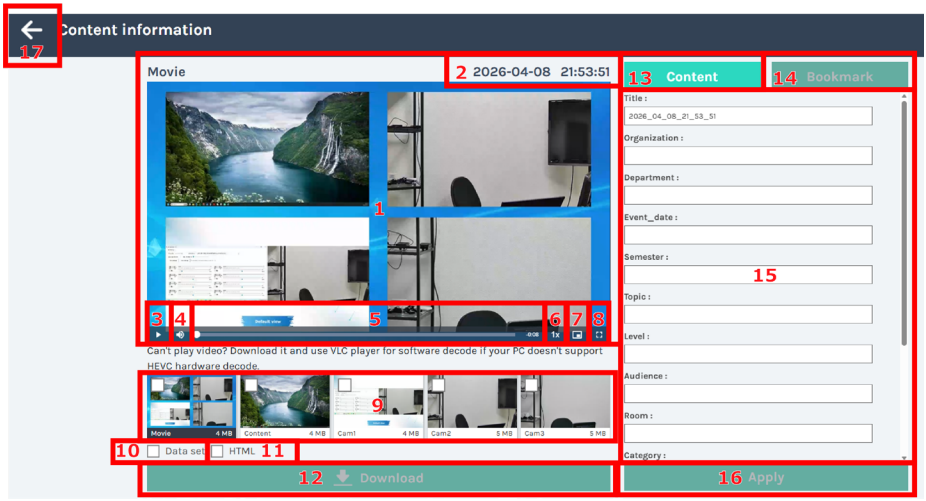


The main page of the Video Manager displays all recordings and allows users to manage them. Here is what each button and function does:

1. List of recordings: all recordings made by the Media Station on the selected primary storage will appear here. Note that the Video Manager will only display videos recorded by the Media Station.
   Click on a video to access its playback and managing menu. Tick a box next to the video to select it for uploading (2), downloading (3), or deleting (4). Multiple videos can be selected simultaneously.
2. Upload: click this button to upload selected videos to the server selected under Mode on the Administrator → Upload → Transfer settings page.
3. Download: click this button to download selected videos. All recording elements are downloaded this way: mixed video, individual video sources, data set, and snapshots.
4. Delete: click this button to delete selected videos. Deleted videos cannot be restored.
5. Reupload all failed uploads: click this button to reupload all videos which failed to upload before. These are the videos with a red cross next to them.
6. Preparing to upload: this indicates that the station is preparing to upload this video.
7. Upload in progress: this indicates that the station is currently uploading this video.
8. Upload complete: this indicates that the video was uploaded successfully.
   If an upload was not successful, there would be a red cross instead.
9. Pages: twelve recordings are displayed per page. Use the pages to find earlier recordings.
10. Storage status: indicates how much storage is currently used and total storage capacity.
11. Video tab: click to open the Video tab (this page).
12. Snapshot tab: click to open the Snapshot tab. It allows you to browse through saved snapshots.
13. Administrator page: click to open the Administrator page.
14. Online Director page: click to open the Online Director page.
15. Log out: click to log out.

3.1.1 Individual Recording Playback and Management

To manage a recording individually, click on its thumbnail in the list of recordings. This opens the individual video playback page.

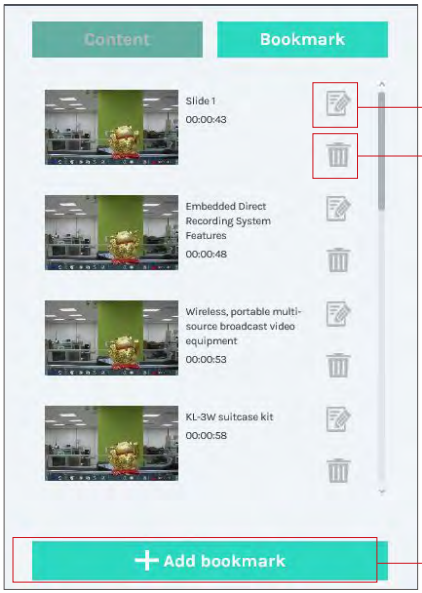


Here is what each function and button does:

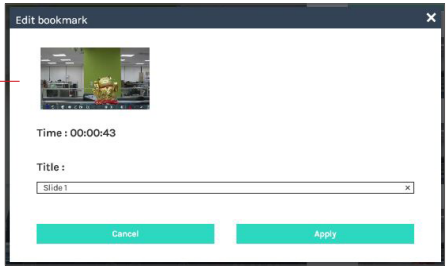
1. Video playback window: plays the currently selected recorded channel/file. Change what is played in the channel selection (9).
2. Date of the recording: shows when the recording was made.
3. Play: click to start or stop playing the video.
4. Volume: adjust, mute, or unmute the volume.
5. Remaining video time and time bar: click or drag anywhere on the bar to jump to that moment in the video. The time shows how long until the end of the video.
6. Playback speed: click to select how fast to play the video.
7. Picture-in-picture: click to watch the video in picture-in-picture mode.
8. Full screen: click to watch the video in full screen mode.
9. Channel selection: click on a channel/file to select which recorded channel/file to watch. Tick a box next to a channel/file to select it for downloading (12).
10. Data set: tick to also download the recording's data set (metadata, thumbnail images, snapshots/bookmarks) when download (12) is clicked.
11. HTML: tick to also download the individual video playback page HTML files (allowing the same player functionality offline, even without the Media Station) when download (12) is clicked.
12. Download: click to download selected files.
13. Content tab: click to access the video's metadata fields.
14. Bookmark tab: click to manage bookmarks for this video.
15. Metadata fields: fill out the video's metadata.
16. Apply: click to apply changes made to the metadata.
17. Go back: click to return to the Video Manager page.

3.1.2 Managing Bookmarks in a Video

Clicking on Bookmark allows accessing, editing, creating and deleting bookmarks for a video.

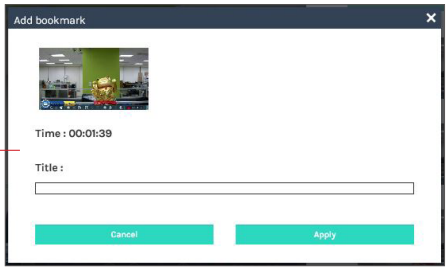


1. Edit the bookmark title



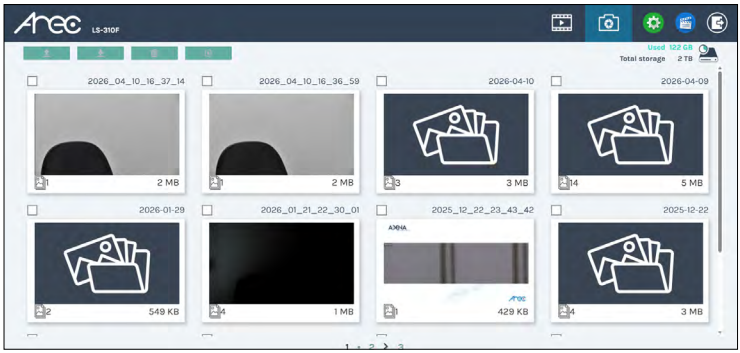
2. Delete the bookmark

3. Add a new bookmark and a title



3.1.3 Snapshot Management

The Snapshots page of the Video Manager shows snapshots taken on the Media Station in separate folders. Snapshots taken when the station was not recording will have the date the snapshots were taken as their title. Snapshots taken while the station was recording will also include the time they were taken in their title.
Same as on the main page, you can tick the boxes next to folders of snapshots and click to upload, download, or to delete them.

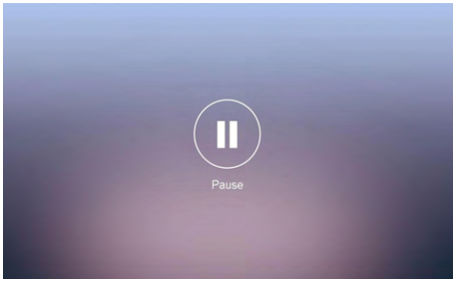


Chapter 4 Important System Messages and Notifications

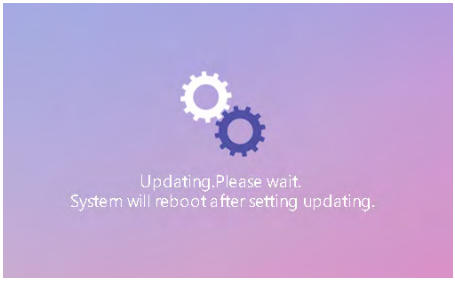
The Media Station can display the following notification icons or messages on the mixed video output (Display 1 HDMI output):



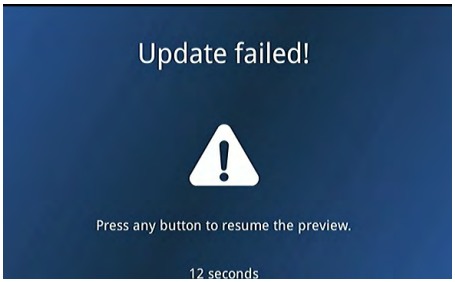
Disk full	Network connection failure	SATA SMART error	Live Streaming error
USB drive error	Operation is denied	Overheating error	Disk failure
Time error	USB drive mounted successfully	Scheduled event couldn't start	Scheduled event started



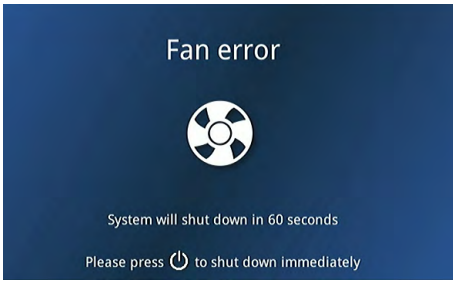
Pause image (customisable)



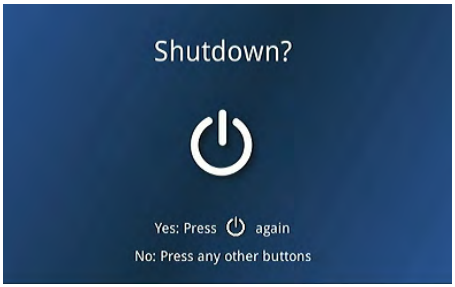
Firmware updating



Firmware update failure



Fan failure



Shutdown confirmation

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Version 2, September 07, 2026

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