

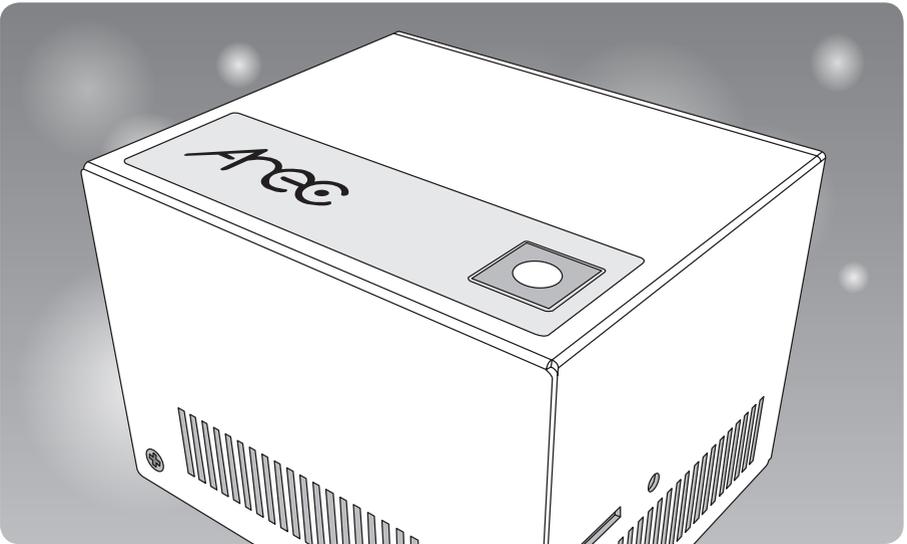


# KS-CC1

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## Media Station

User Manual | English



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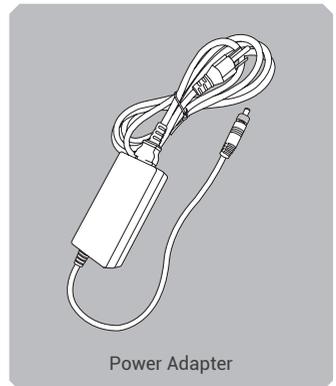
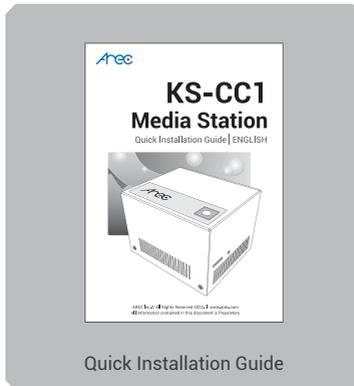
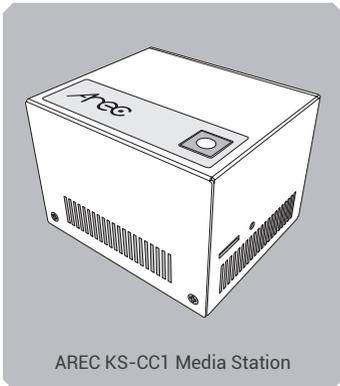
## Introduction

KS-CC1 can output instant transcription on monitors automatically in a speech event. It also can show the speech script or the translation on audience mobile device. Supporting recording, streaming, and exporting the transcription text file benefit the event host to provide various services for the attendees. It's compact and affordable for all the conference scenario.

## Specifications

Product Name	Media Station
Model Name	KS-CC1
Dimension	95mm(L) x 80mm(W) x 65mm(H)
Weight	490g
Power Requirement	12V/3.34A
Power Consumption (Max.)	40W (Max.)
Operating Temperature / Humidity	0°C ~ 40°C / 90%
Maximum normal load description	Supports one channel of video & audio signal input, include one HDMI or IP Cam/ Stream or UVC video and one line-in or Mic-in audio. Output the transcoded video to the HDMI port(with GUI) and loop through one HDMI video source at the same time. Record the video file to the USB storage via USB port.

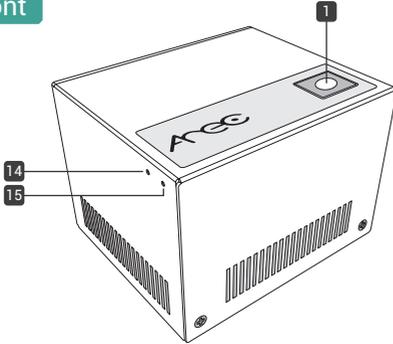
## Package Contents



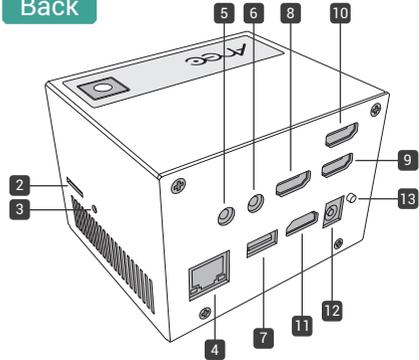
\* Note: The shape of the plug may vary depending on the country or region.

## Product Appearance

Front



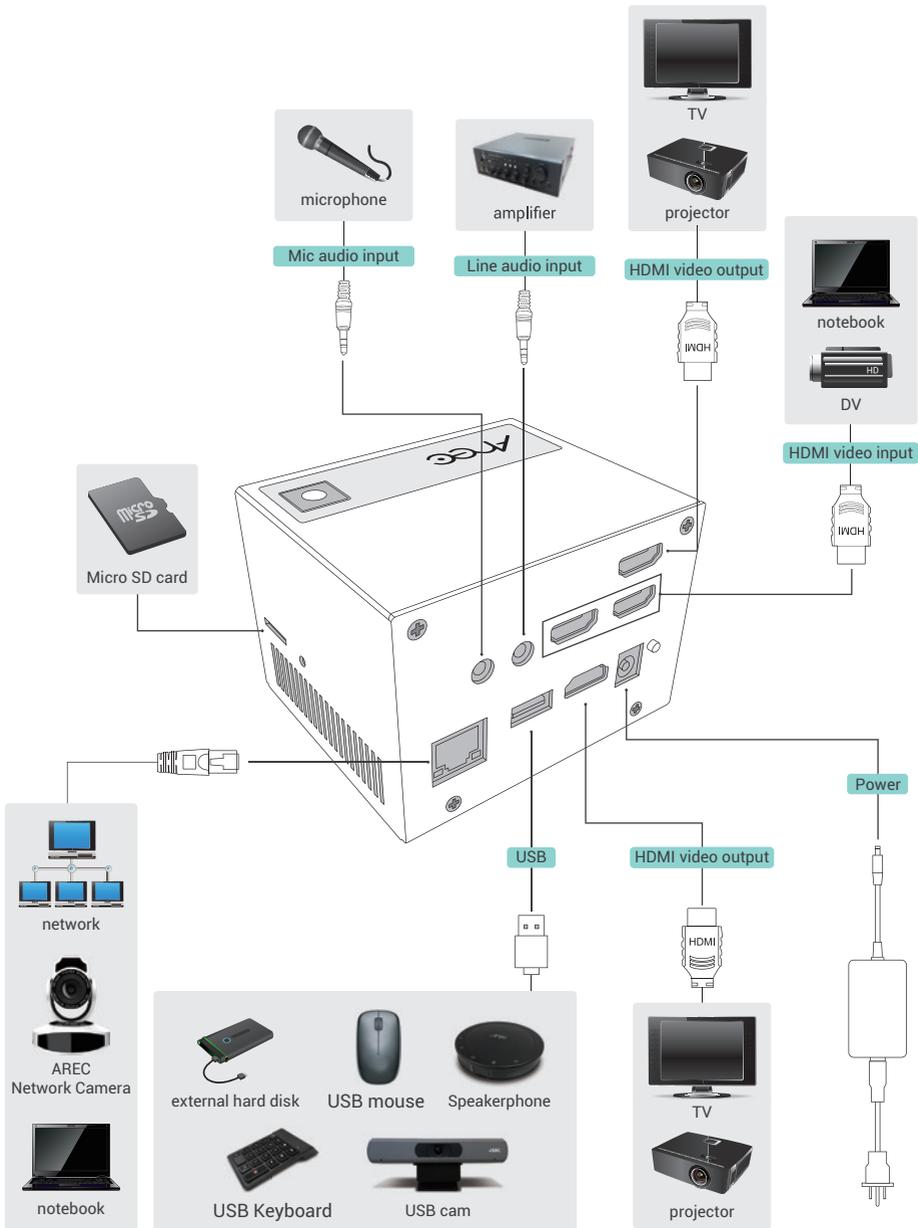
Back



No.	Name	Brief introduction
1	Start/Stop function key	Start/Stop transcription, translation, recording and streaming services simultaneously.
2	Micro SD card slot	Please prepare Micro SD card for internal storage
3	Reboot Button	Reboot the device
4	Ethernet Port(WAN)	For the internet access to google service, do live broadcasting or remote device control.
5	Mic-in	Connected with microphone
6	Line-In	Connected with audio mixer or amplifier
7	USB-In	1. Available for the USB audio/video inputs 2. Available for the USB mouse and touch devices 3. For the export of video with SRT files
8	HDMI-In 2 (Max. 3840x2160@60Hz)	HDMI input source, connected with PC or cameras.
9	HDMI-In 1 (Max. 3840x2160@60Hz)	HDMI input source, connected with PC or cameras.
10	HDMI Loop Out	Loop through HDMI video of HDMI-in 1
11	HDMI Out	Display video with closed captions or the transcription only. (comes with graphic tool bar)
12	Power Port	12V / 3A
13	Power Button	When the device is ON, push twice to turn OFF Long press 3 seconds to restart When the device is OFF, push to turn ON.
14	Reset button	Long press to reset the device to default settings
15	Power Indicator	LED Indicator for device boot status

NOTE: The KS-CC1 can detect and record to USB storage devices using FAT32, NTFS, exFAT, Ext3, Ext4 file systems.

# Connection



## Function key and the indicator

Button/Indicator	Display method of indicator	Product status
 Service Button	Red light glows continuously	Speech-to-text recognition in progress. *Along with translating, recording, and streaming if enabled.
Power indicator	Green and red light flash alternately.	Device is booting up.

## Getting start

### Connecting to network

Connect KS-CC1 to a router or switch and please ensure that it is accessible to the internet. On the KS-CC1's **first bootup**, it will register to AREC server and receiving a **10-hour** service time for live transcription.

### Configure video & audio inputs for your speech

#### Video Input

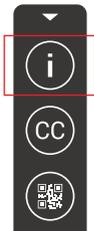
KS-CC1 supports HDMI, UVC(USB Video Class), network cameras, and IP video sources.

1. Connect your video source.

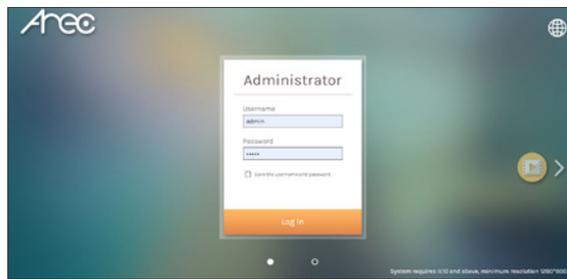
- HDMI: Connect the source to HDMI input 1 or 2
- If you intend to use your video source for other device/monitor, please connect the source to HDMI input 1 and connect the other device to the HDMI loop-through port.
- UVC(USB): Connect the USB video source to the USB port.
- If there are multiple USB devices needed for your case (USB cameras/mouse/flash drives...etc.), we recommend to use a USB hub which comes with its own power adaptor to provide more stability for your USB source and devices.
- Network camera or IP source: Connect the source under the same subnet with KS-CC1.

2. Go to the KS-CC1's web page to set the video input

- Open a browser and insert the KS-CC1's IP address. The IP address can be found on the GUI menu shown on display that connected to the HDMI preview output port.



- Login the web administrator page with default username/password: admin/admin



### 3. Configure your video source

#### • HDMI & USB video source

Please select "Video port" in Signal type, and select the corresponding option in "Video source". And click Apply to take effect.

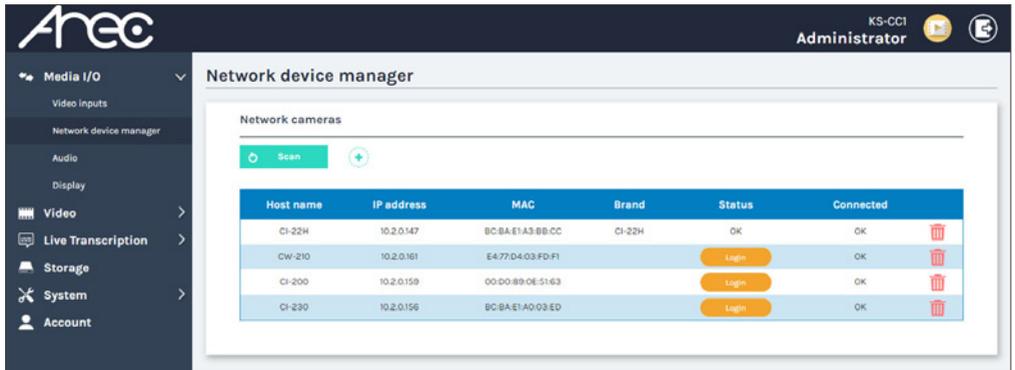
#### • Network camera

First, go to the Network device manager page and click scan to find your network camera.

Click [Login](#) and insert the camera's ONVIF credential to register the camera.

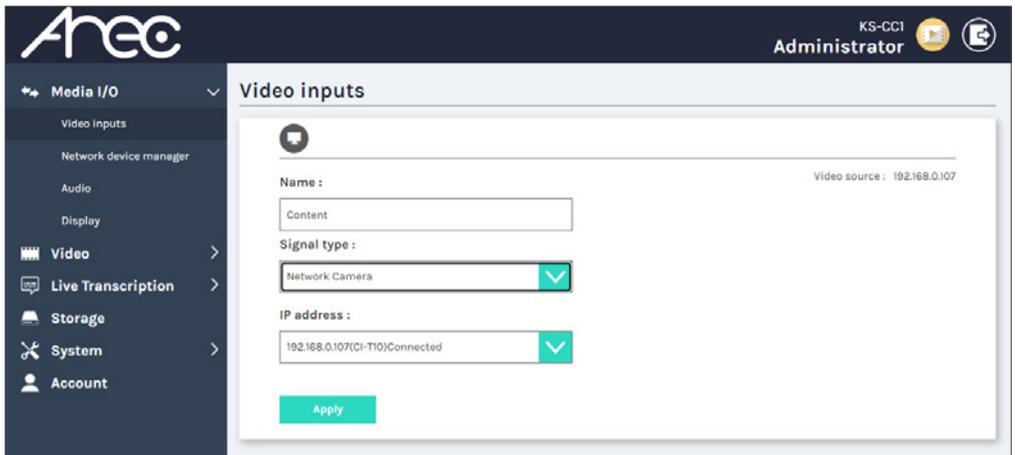
Go back to the Video inputs page, and select "Network Camera" in Signal type and select the camera in IP address.

Click Apply to take effect.



The screenshot shows the 'Network device manager' page in the Arec web interface. The left sidebar is expanded to 'Media I/O' > 'Network device manager'. The main content area is titled 'Network cameras' and features a 'Scan' button. Below is a table listing discovered cameras:

Host name	IP address	MAC	Brand	Status	Connected
CI-22H	10.2.0.147	BC-BA-E1A3-BB-CC	CI-22H	OK	OK
CW-210	10.2.0.161	E4-77-D4-03-FD-F1		Login	OK
CI-200	10.2.0.159	00-00-89-0E-51-63		Login	OK
CI-230	10.2.0.156	BC-BA-E1A0-03-ED		Login	OK



The screenshot shows the 'Video inputs' configuration page in the Arec web interface. The left sidebar is expanded to 'Media I/O' > 'Video inputs'. The main content area is titled 'Video inputs' and shows the configuration for a video source:

Name:

Video source: 192.168.0.107

Signal type:

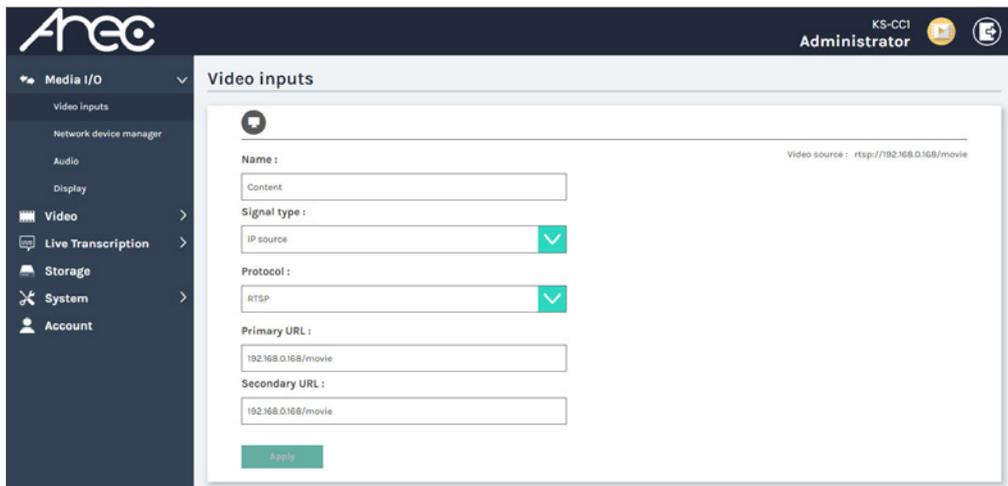
IP address:

[Apply](#)

## • IP source

KS-CC1 supports RTP/RTMP/RTSP for video inputs. Please select "IP source" in Signal type and insert the correct stream URL in "Primary URL".

Click [Apply](#) to take effect.



## Audio Input

KS-CC1 support multiple audio input types: Line-in/Min-in/HDMI/USB audio input.

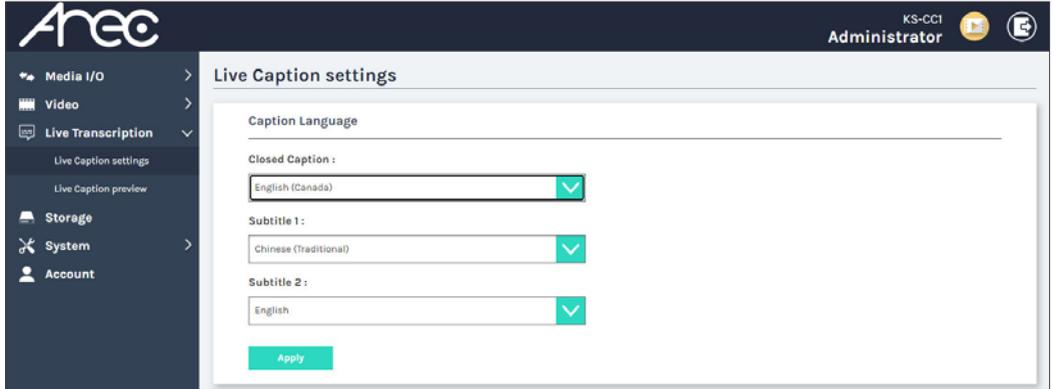
Connect your audio input source to the KS-CC1 and go to web administrator → Media I/O → Audio page to configure the volume level.

If you are using USB audio source, please select your USB audio device in the "USB Audio (UAC) settings" drop-down list.



### Configure live transcription

1. Go to the web administrator → Live Transcription → Live Caption settings
2. Select the language used in your speech in the "Closed Caption" drop-down list.  
KS-CC1 will use this language for speech-to-text recognition.
3. Select the languages in Subtitle 1 & 2. KS-CC1 will translate the speech into these languages and create subtitles.



### Configure the live caption preview

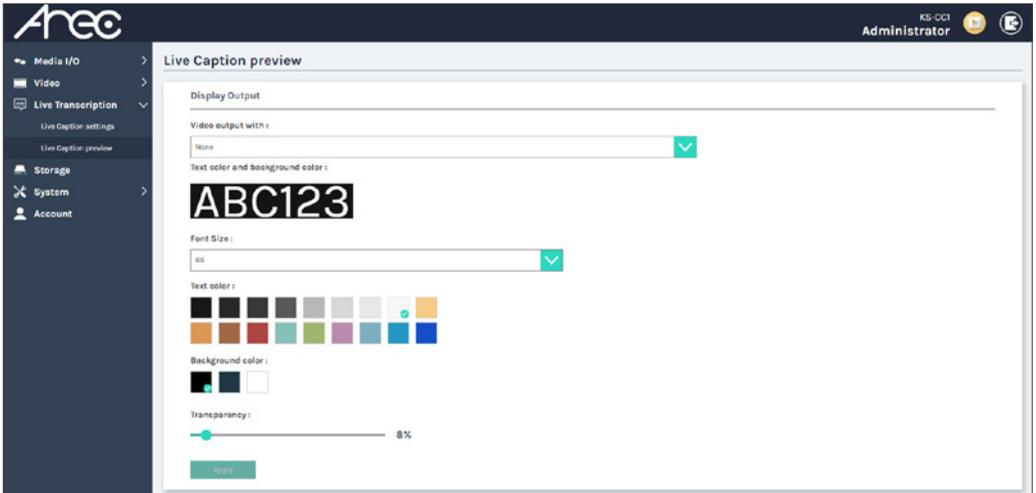
KS-CC1 provides a web page for the audience to view the subtitle in live. You can configure a QR code for the audiences to use their smartphone to scan and it will redirect them to the subtitle page.

To set the QR code, please follow the steps below.

1. Go to the web administrator → Live Transcription → Live Caption preview, and scroll down to the Web URL & QR code.



2. Insert the IP address of KS-CC1. If you're using port forwarding on KS-CC1 or setting it with a public IP, please insert the external IP address or domain name along with the external port number.
  3. In the "Notification message", you can customize the message shown with the QR code.
- You can also design the subtitle font properties in the Display Output section under the same page



## Subtitles web view page

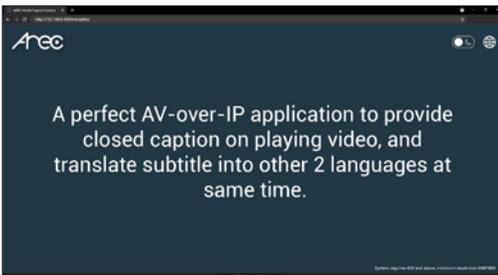
You can go to the subtitle web page by scanning QR code or

To connect the subtitle web view, you can insert the URL\* directly or by scanning the QR code shown on the GUI display.

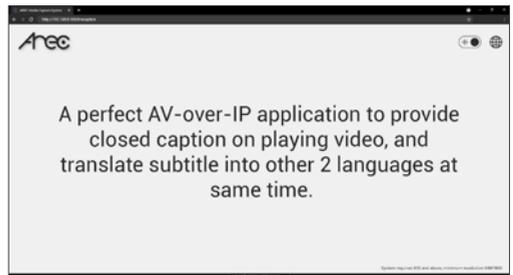
\* The subtitle URL is [http://\[KS-CC1 address\]/subtitle](http://[KS-CC1 address]/subtitle). EX. <http://192.168.0.10/subtitle>

You can switch the subtitle language by click the button in the top-right corner, and change the view page to day/night mode for better view.

### ▪ Night mode



### ▪ Day mode



## Configure recording

1. Insert a storage device (USB drive/Micro SD card)
2. Go to the web administrator → Storage page.
3. Find the storage device on the list and click [Format](#)
4. Select the storage in the Record disk settings section and click "Apply"

The screenshot shows the Arec web administrator interface. The top navigation bar includes the Arec logo, the user role 'Administrator', and a profile icon. The left sidebar contains menu items: Media I/O, Video, Live Transcription, Storage (highlighted with a red box and '1'), System, and Account. The main content area is titled 'Storage' and contains three sections:

- Record disk settings:** A section with a dropdown menu for 'Storage' set to 'Internal (SD Card)' and a green 'Apply' button. A red box and the number '3' highlight this section.
- NAS settings:** A section with a 'Mount' toggle switch and a green 'Apply' button.
- Disk information:** A table with columns: Interface, Disk name, Brand, Capacity, Free Space, and Format. The table contains one row for an SD card. A red box and the number '2' highlight the 'Format' button in the table.

Interface	Disk name	Brand	Capacity	Free Space	Format
SD	Internal (SD Card)		30.47 GB	240.88 MB	<a href="#">Format</a>

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## Overview of the Web Interface

KS-CC1 web interface has two user types, Administrator and Video Manager, described as below :

 Administrator	To setup the device, log in Administrator with default username admin and password admin, then entering System Administrator webpages. The admin account provides the user both two types of privileges.
 Video Manager	If you only need to access to the recordings, log in Video Manager with default username video and password video. You can also log in with Administrator account and switch to Administrator page.
 Live Subtitle	The live subtitle web page allows users to view the live subtitle. Each audience can select the language of the subtitle from the three language that set in the live transcription configuration without interfering others.

## Chapter 1 Administrator

The Administrator web pages provide a system administration interface of the KS-CC1: it can perform Media I/O, Video, Live Transcription, Storage, Account, System settings and confirm operations.

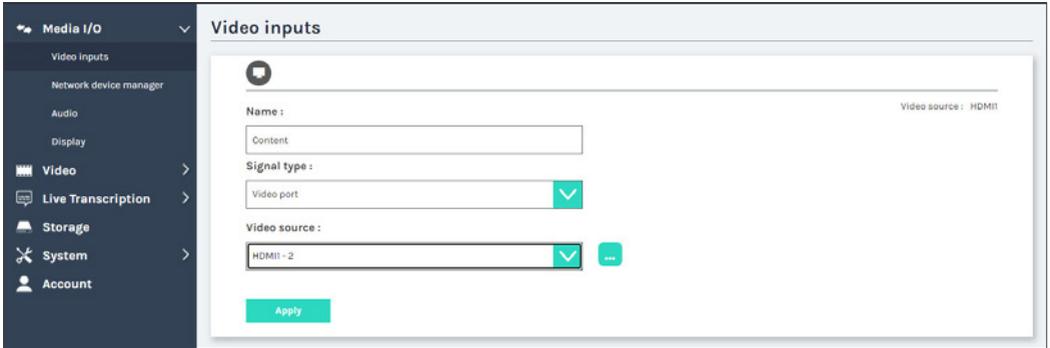
The Media I/O contains configurations of video and audio input sources as well as of video/audio outputs.

The Video tab contains everything related to recording and streaming.

In Live Transcription, you can change the language used in the speech and captions, as well as the subtitle's font properties.

The System are pages contain basic settings and information of this device.

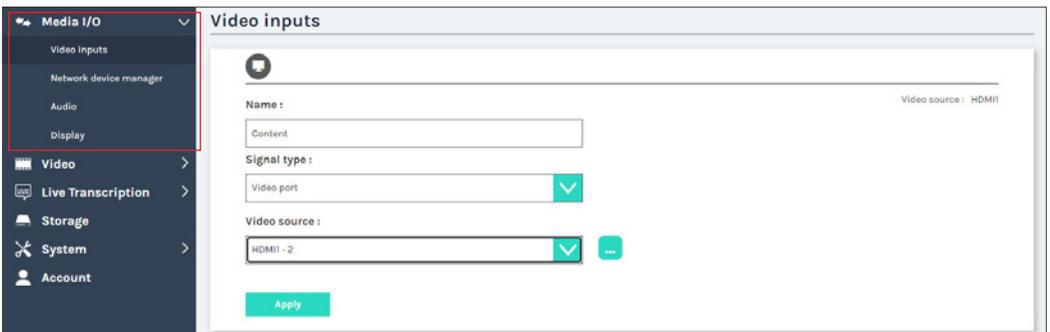
Click  icon can switch to Video Manager page.



### 1.1 Media I/O

Use this menu to configure the video/audio input and output settings

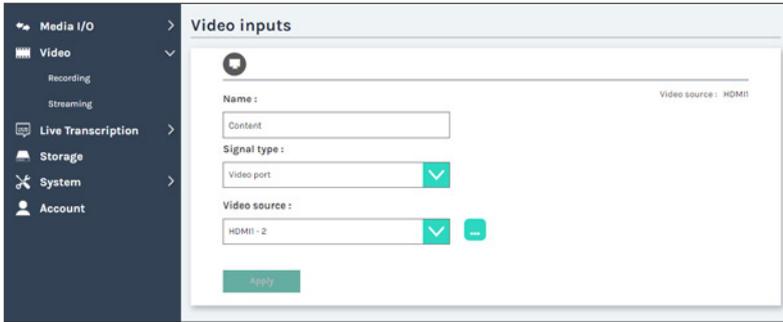
The Media I/O menu consists of the following sections:



Video inputs	Configure the video input source name and signal type.
Network device manager	List of all network cameras within the same LAN.
Audio	Adjust the audio volume and define the USB audio input source.
Display	Set the KS-CC1 on screen display language.

### 1.1.1 Video inputs

The KS-CC1 can be set with one video input at the same time.



#### 1.1.1.1 Content

■ **Name**

Edit the name of the video input source.

■ **Signal Type**

Select the signal type of the video input from [Video port](#), [Network Camera](#), or [IP source](#).

Video port	<p>Under "Video port", KS-CC1 lists HDMI input 1 &amp; 2 and all the USB video sources connected to it. You may select one as video source and configure its profile. The available options are: format*, resolution(max.), and FPS(max.)**</p> <p>* Format refers to video format, there is two formats supported which are: MJPEG and YUV                  ** KS-CC1 will set the video source to the highest resolution and FPS it supports, but not exceed the max resolution and FPS set here.</p>
Network Camera	<p>To connect an IP camera as the video source, select from the camera's IP address from the dropdown list of those available.</p> <p>* Note: A login authentication with the camera would be required.                  See "Media I/O" → "Network device manager" for more details.</p>
IP Source	<p>To connect an IP source, select protocol first. The supported protocols are RTP, RTSP, or RTMP. Enter the primary and secondary URL and port number if needed.</p>

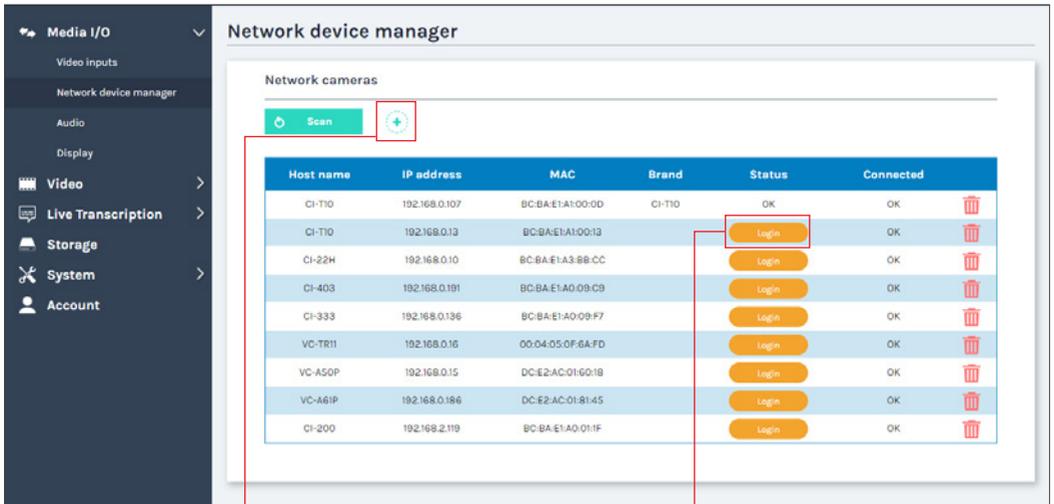
### 1.1.2 Network device manager

By clicking the "Scan" button, KS-CC1 will search all the ONVIF network cameras that are connected on the same subnet. The system automatically scans and lists the network cameras connected to the Media Station once entering the [ Network device manager ] page. You may click "Scan" button to scan again. Click "Login" button, and the login authentication dialog pops out.

Enter the username and password of the camera to complete the authentication. Take AREC network camera for example, enter the default username and password admin/ admin. The status then changes to OK, which indicates it is available for video input selection.

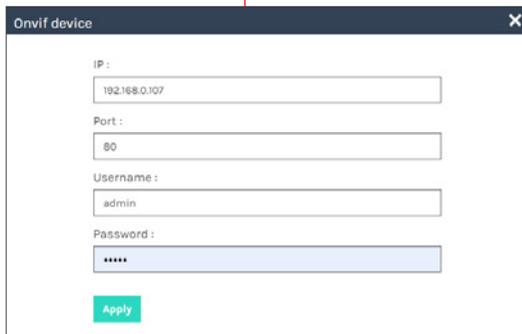
**Note :** If you fail to find your camera by clicking on "Scan", please click  button to add the camera manually\*, or select "Signal type" to "IP source" in the "Video Inputs" and fill in your camera stream URL.

\* To add a camera manually, please click the , and insert the camera's IP address, ONVIF port number and credentials.



The screenshot shows the 'Network device manager' interface. On the left is a sidebar with navigation options: Media I/O, Video inputs, Network device manager, Audio, Display, Video, Live Transcription, Storage, System, and Account. The main area is titled 'Network cameras' and contains a 'Scan' button and a '+' button. Below is a table of cameras with columns for Host name, IP address, MAC, Brand, Status, and Connected. The table lists several cameras, including CI-T10, CI-T10, CI-22H, CI-403, CI-333, VC-TR11, VC-A50P, VC-A61P, and CI-200. The 'Status' column for CI-T10 shows 'OK', and a 'Login' button is visible next to it. A red box highlights the '+' button and the 'Login' button for CI-T10.

Host name	IP address	MAC	Brand	Status	Connected
CI-T10	192.168.0.107	BC:BA:E1:A1:00:0D	CI-T10	OK	OK
CI-T10	192.168.0.13	BC:BA:E1:A1:00:13		Login	OK
CI-22H	192.168.0.10	BC:BA:E1:A3:BB:CC		Login	OK
CI-403	192.168.0.191	BC:BA:E1:A0:09:C9		Login	OK
CI-333	192.168.0.136	BC:BA:E1:A0:09:F7		Login	OK
VC-TR11	192.168.0.16	00:04:05:0F:8A:FD		Login	OK
VC-A50P	192.168.0.15	DC:E2:AC:01:60:18		Login	OK
VC-A61P	192.168.0.186	DC:E2:AC:01:81:45		Login	OK
CI-200	192.168.2.119	BC:BA:E1:A0:01:1F		Login	OK



The 'Onvif device' dialog box contains the following fields:

- IP: 192.168.0.107
- Port: 80
- Username: admin
- Password: \*\*\*\*

An 'Apply' button is located at the bottom left.



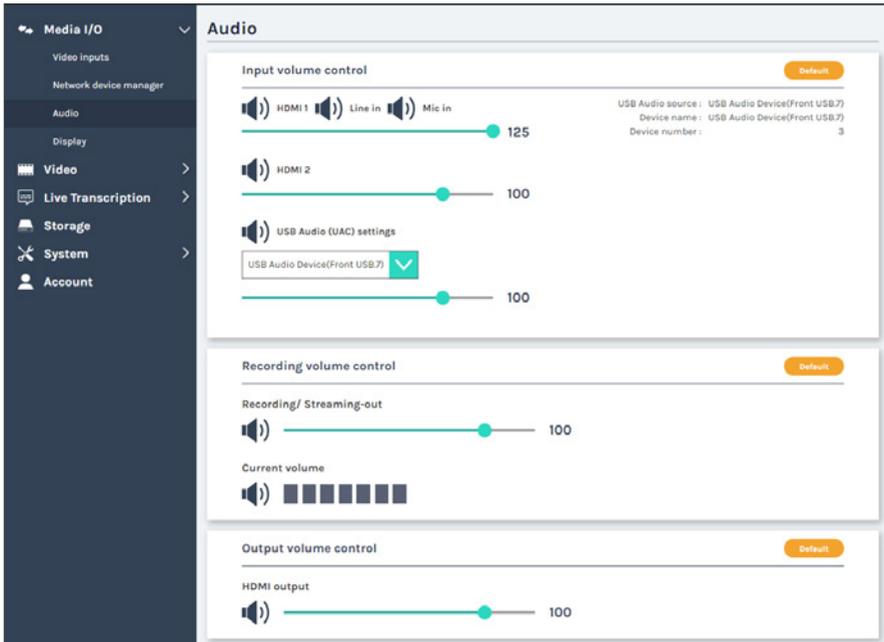
The 'Login authentication' dialog box contains the following fields:

- Username:
- Password:

An 'Authentication' button is located at the bottom center.

### 1.1.3 Audio

You can adjust the audio volume for input sources, the mixed of all audio sources, and also the output. You can also set one USB audio source here.



#### Input volume control

Users can control mute/unmute and the volume of the audio inputs here.

The HDMI input 1, Line-in, and Mic-in are mixed into to the same audio group, so any setting changed in this group will affect all three audio inputs.

HDMI input 2 has its individual audio control.

If the KS-CC1 is using an IP video source and it contains audio codec that KS-CC1 supports, you will see the IP audio control UI here.

In the USB Audio (UAC) settings, you can select one USB audio source connected to KS-CC1 from the drop-down menu. After selecting the USB audio source, the audio control interface will be appeared and allowing volume and mute control. You can also select 'None' to disable capturing any USB audio source.

#### Recording volume control

The audio control of this section will affect all audio sources mixed for recording and streaming.

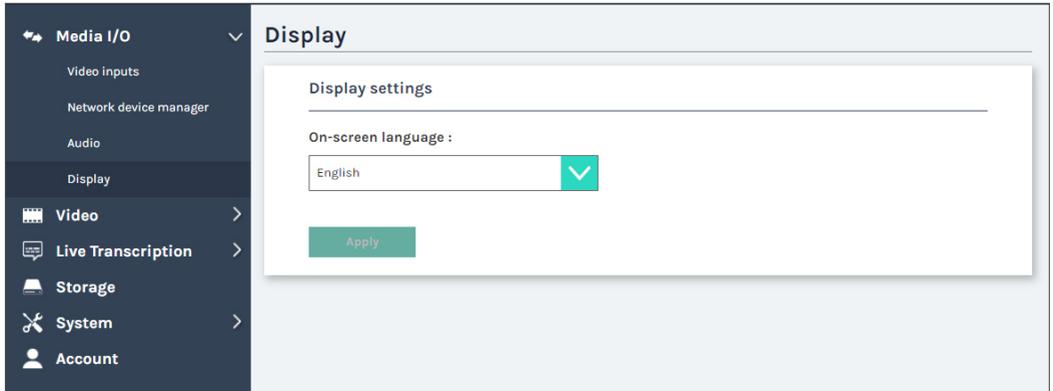
The audio level meter shows the current mixed audio level.

#### Output volume control

The HDMI output audio control only affects the audio playback on HDMI display. It doesn't affect the sound captured for live transcription, recording, and streaming.

## 1.1.4 Display

Set the KS-CC1 on screen display language.



On-screen language: Change the GUI menu language.

## 1.2 Video

The pages within Video contains settings related to streaming and recording.

**Recording**

**Encoder settings**

**Recording mode :**  
 on

**Video compression :**  
 Full HD

**Record to USB :**  
 off

**Loop recording :**  
 on

Resolution: 1920x1080  
 Average bitrate: 4 Mbps  
 FPS: 30  
 Key-Frame Interval: 30  
 H.264 profile: high profile  
 Audio bitrate: 256 Kbps  
 Audio sample rate: 48.0 KHz

**Recording file name setting**

**Prefix setting :**

**Audio settings**

**Audio shift :**

100 ms

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Recording

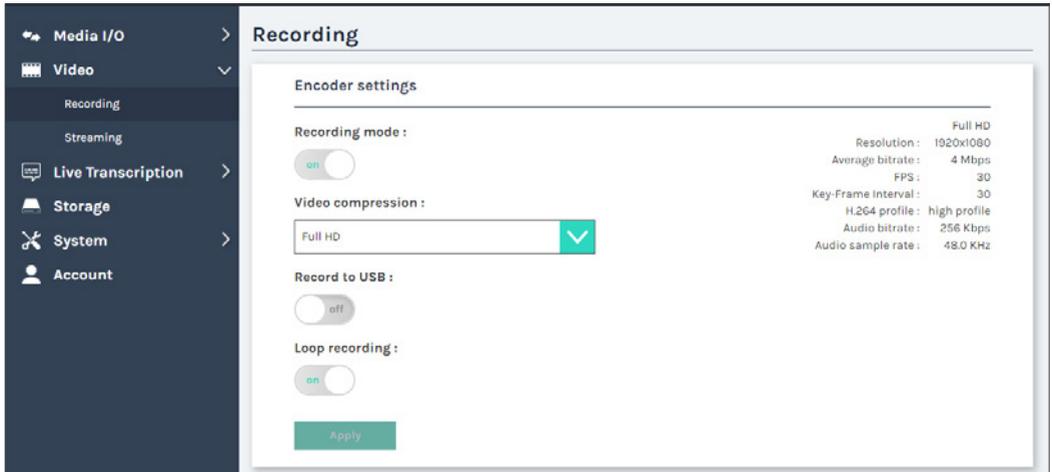
Encoder settings (of recording), Recording file name setting, and Audio shift for recording.

Streaming

Encoder settings (of streaming) and streaming settings.

## 1.2.1 Recording

Set up the [Encoder settings](#), [Bookmark settings](#), [Recording file name setting](#) and [Audio shift](#) for recording.



### Encoder settings

- **Recording mode:** You can enable or disable the recording function. When it is enabled, KS-CC1 starts recording when live transcription starts.
- **Video compression:** There are 7 preset recording video compression profiles for different resolution and bitrate. Select one to see the option details on the right side. You may customize your own profile using "user defined" option.
- **Record to USB:** Set ON/OFF to enable/disable KS-CC1 USB recording function. This allows KS-CC1 to record to an USB drive only without mounting\*. Make sure the USB drive connected can be normally read and written and has enough space for recording.
  - \* When "Record to USB" is enabled and KS-CC1 records video to an USB drive, the recording files will be saved only on the USB drive and will not have another copy on KS-CC1's local storage.
- **Loop recording:** Set ON/OFF to enable/disable KS-CC1 local storage recording rule. This allows KS-CC1 to automatically delete the oldest recording file if the local storage is almost full during recording.

Click Apply button at the bottom corner when finished to apply the settings.

Profile name	Video Resolution/ Bitrate	Application description
Full HD	1080p/ 4Mbps	Dynamic scene and large local hard disk recording.
Internet Full HD	1080p/ 3Mbps	General scene and medium local hard disk recording.
HD	720p/ 2Mbps	Static scene and small local hard disk recording.
Internet HD	720p/ 1.5Mbps	Live broadcasting through the Internet.
SD	480p/ 800kbps	Static scene for live broadcasting through the Internet.
Mobile SD	480p/ 500kbps	Live broadcasting for portable mobile devices watching.

User defined

Click  button to open customization window, and click Save button after making changes.



Add prefix to video filename: The string set here will be added to the video filename as a prefix string for Download and Upload.

**Recording file name setting**

---

Prefix setting :

Audio shift: Adjust the delay of sound after video transmission. Synchronize the video and audio with consistency.

**Audio settings**

---

Audio shift :

100 ms

## 1.2.2 Streaming

AREC Media Station supports two streaming addresses with same video compression. The page provides user to change streaming settings. It is essential that the configurations follow the streaming protocol and recommended settings your server system supports.

**Streaming**

**Encoder settings**

Video compression : Mobile SD  Mobile SD

Resolution : 720x480  
Average bitrate : 500 Kbps  
H.264 profile : high profile

**Streaming 1 settings**

Live streaming :  off

URL :

**Streaming 2 settings**

Live streaming :  off

URL :

### Video compression profile

There are 7 streaming video compression profiles for different resolution and bitrate. Select one to see the option details on the right side. You may customize your own profile using "user defined" option. Select "User defined" and click  button to open stream properties window as shown below. Edit the stream your stream profile and click Save button to keep the setting.

And please be sure to click the Apply button at the bottom corner when finished to apply the settings.

Note: The resolution for streaming cannot be larger than that for recording.

User defined✕

Resolution :

1280x720▼

Average bitrate :

1.5 Mbps▼

H.264 profile :

high profile▼

Save

### Live streaming

Set streaming 1 or 2 ON/OFF to enable/disable streaming. When live streaming enabled, KS-CC1 will start streaming once the live transcription starts.

Click  button to open advance settings window as shown below, leave the username/password blank if your RTMP server doesn't require credentials (\*RTMP credentials are mostly needed when using Wowza server.). Click the "Connect test" to check if the KS-CC1 can correctly access to the current RTMP URL set. Click Save button to make the option change.

Advanced settings✕

Username :

Password :

Connection test
Save

### URL

The available protocol on the KS-CC1 are RTP and RTMP, the URL format is as follows :

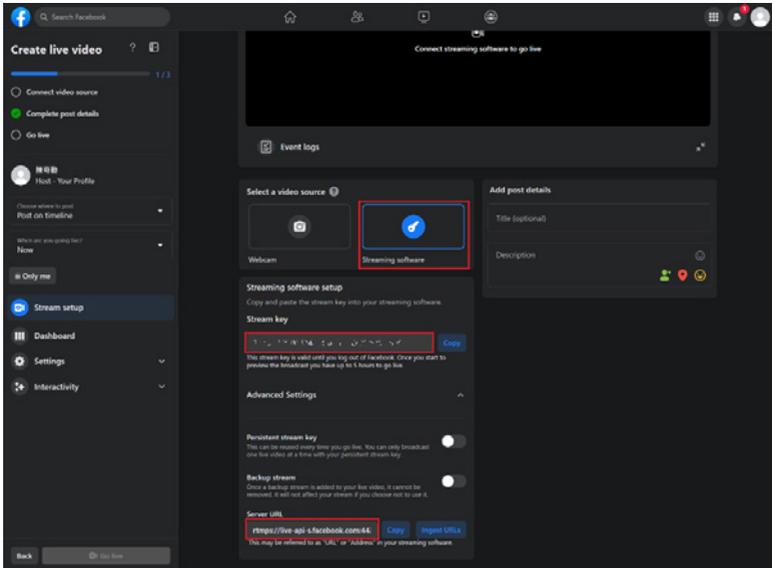
RTMP	In the protocol setting field, copy and paste the Server or Stream URL and Stream name provided by you CDN or server administrator in the format <code>rtmp://serverurl/streamname</code> .
RTP	Enter the destination IP address and the port number where the streaming is played in the format <code>rtp://@:1234</code> For example, <code>rtp://226.10.24.32:7000</code>

Followings are some popular examples for streaming settings. Streaming to Facebook Live

1. Select "Streaming Software" for the video source.
2. Copy the server URL and stream key, paste and combine them in the KS-CC1 streaming protocol setting field.

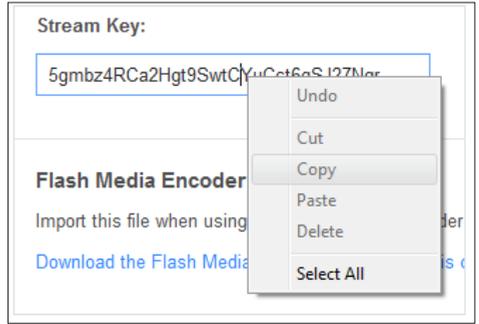
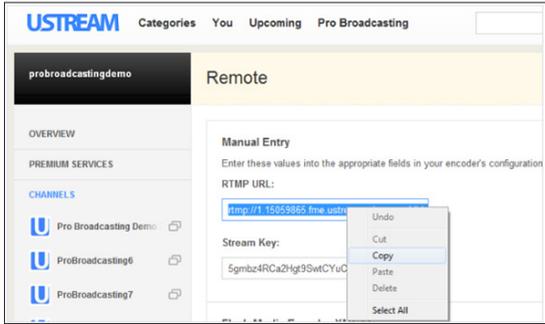
Ex.  
 - Server URL = `rtmps://live-api-s.facebook.com:443/rtmp/`  
 - Stream key = `abcdefgh12345678`

- Stream URL paste on the KS-CC1 = `rtmps://live-api-s.facebook.com:443/rtmp/abcdefgh12345678`



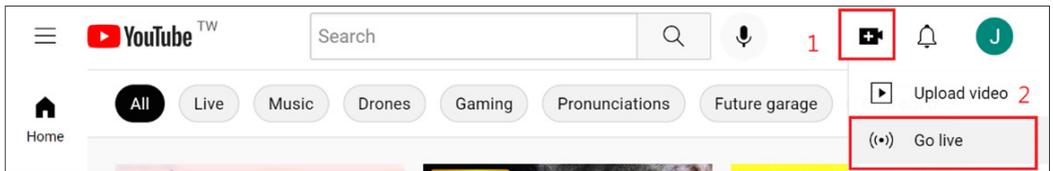
**Streaming to Ustream**

Combine the contents of both fields: RTMP URL and Stream Key, insert a slash between them. Paste this string into the LS-US2 streaming protocol setting field. For example: `rtmp:1.15059865.fme.stream.tv/ustreamVideo/15059865/5gmbz4RCa2Hgt9SwTCyUCct6qS137Nar`



**Streaming to YouTube Live**

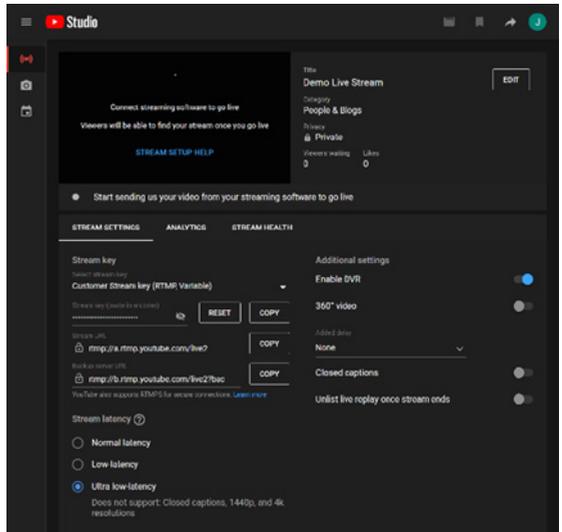
First go to the YouTube Studio → Stream page.



Combine the contents of both fields: Stream URL and Stream key, insert a slash between them. Paste this string into the KS-CC1 streaming protocol setting field.

Ex.

- Stream URL = `rtmp://a.rtmp.youtube.com/live2`
- Stream key = `abcdefgh12345678`
- Stream URL paste on KS-CC1 should be:  
`rtmp://a.rtmp.youtube.com/live2/abcdefgh12345678`



## Streaming RTP

KS-CC1 can do RTP unicast and multicast streaming.

Unicast: For a single point connection. There can be only one client to receive the stream at the same time. The stream receiver must be accessible to KS-CC1.

The stream URL format of RTP unicast is: `rtp://Destination_IP : Port`

- **Destination\_IP** : RTP stream client's(receiver's) IP
- **Port** : self-defined port, range 1024 ~ 65535.

**\* Please make sure the stream port number is not occupied on the stream receiver's device.**

Ex.

```
rtp://192.168.0.123:4321
```

Multicast: The destination IP must be multicast IP address where it can be shared with multiple viewers. The multiple IP address range is 224.0.0.1 ~ 239.254.254.254. You can set stream IP to any address within this range for multicast.

You will also need to define a port number.

The whole stream URL format of RTP multicast is: `rtp://Multicast_IP : Port`

- **Multicast\_IP** : multiple IP address, range = 224.0.0.1 ~ 239.254.254.254
- **Port** : self-defined port, range = 1024 ~ 65535.

**\* Please make sure the stream port number is not occupied on the stream receiver's device.**

Ex.

```
rtp://239.0.0.1:1234
```

To view the stream on a media player, insert the same RTP stream URL.

## 1.3 Live Transcription

### 1.3.1 Live Caption settings

#### Caption Language

Configurations of the language used for speech-to-text recognition and translations.

##### Closed Caption

Select the language that used for speech-to-text recognition or "None" to disable.

##### Subtitle 1

Select the language that the 1st subtitle should be translated to or "None" to disable.

##### Subtitle 2

Select the language that the 2nd subtitle should be translated to or "None" to disable.

\* The list of all languages supported for speech-to-text is different than the one for translation.

Please see the lists below for more details.

#### Service

You can find the live transcription service remain time in this section as well as to add more service time by the value code purchased from AREC website.

##### Stored value code

Insert the value code purchased from AREC website to add more service time for live transcription.

##### Remaining service time

The remain service time(balance) available for live transcription of the KS-CC1.

## Purchase more transcription service time

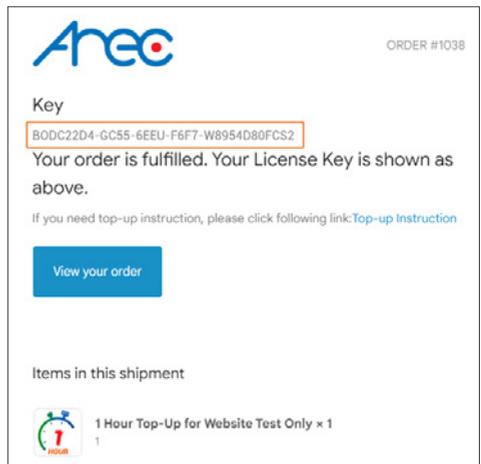
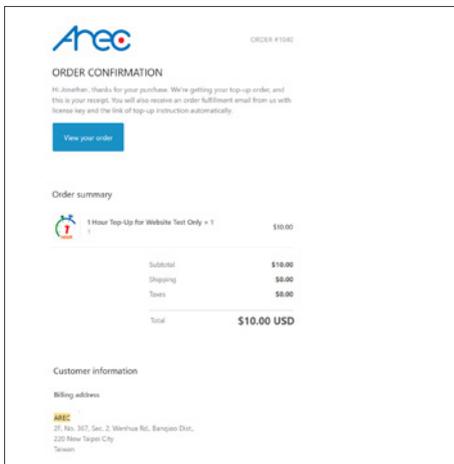
You can purchase more service time(balance) of transcription for your KS-CC1 on AREC.com or get a better price from your local distributors.

To purchase on AREC.com:

1. Go to AREC web site and find KS-CC1 product webpage.
2. Select the amount of service time you'd like to purchase.
3. Click "View product", "Add to cart", and then "Checkout"
4. Fill up the purchase information
5. Select the payment method, such as paypal, then insert the necessary information.



6. After the order is confirmed, you should receive two mails.



7. Find the license key from the second mail and insert it to KS-CC1's web admin → Live Transcription → Live Caption settings → Service → Stored value code
8. Click apply and see if the "Remaining service time" has increased as expected

The screenshot shows the 'Live Caption settings' page in the Arec KS-CC1 Administrator interface. The left sidebar contains navigation options: Media I/O, Video, Live Transcription (expanded), Storage, System, and Account. The main content area is titled 'Live Caption settings' and is divided into two sections: 'Caption Language' and 'Service'.  
 In the 'Caption Language' section, there are three dropdown menus: 'Closed Caption' (English (Canada)), 'Subtitle 1' (Frisian), and 'Subtitle 2' (Chinese (Traditional)). Each dropdown has a green checkmark icon. Below these is a green 'Apply' button.  
 In the 'Service' section, there is a 'Stored value code' field containing the text 'B0DC22D4-GC55-6EEU-F6F7-W8954D80FCS2'. This field is highlighted with an orange rectangular box. Below it is a 'Remaining service time' field showing '0h 0m'. A green 'Apply' button is located at the bottom of this section.  
 At the bottom of the page, there is a small copyright notice: 'Copyright © AREC Inc All Rights Reserved'.

This screenshot shows the same 'Live Caption settings' page as above, but after the 'Apply' button in the 'Service' section has been clicked. The 'Stored value code' field remains the same and is still highlighted with an orange box. The 'Remaining service time' field now displays '0h 25m', which is also highlighted with an orange rectangular box. The rest of the interface, including the sidebar and the 'Caption Language' section, remains unchanged. The copyright notice 'Copyright © AREC Inc All Rights Reserved' is visible at the bottom.

### 1.3.2 Live Caption preview

In this section, you can configure everything about the live subtitle, including the subtitle's font properties and the URL of its web view page.

#### Display Output

Configure the subtitle to be displayed live on the HDMI output and streaming. The subtitle set here will also be mixed(embedded) with the recording video.

1. Click the dropdown menu of "Video output with" and select the live subtitle displayed or select "None" to disable live subtitle.
2. Configure the font properties (Font Size, Text color, Background color, and Transparency).
3. Click apply to take effect.



#### Video output with

Select the subtitle shown on the display

#### Text color and background color

Preview of the subtitle when the current font properties are applied.

#### Font Size

Select the font size of the live subtitle

#### Text color

Select the font color of the live subtitle

#### Background color

Select the background color of the live subtitle

#### Transparency

Adjust the transparency of the subtitle. Or set to 0% if you don't want the transparent effect at all.

## Web URL & QR code

You can configure the URL of the subtitle web view page here, especially when the device is routed with a public IP or domain name.

### Web URL & QR code

URL for mobile device :

  
  
Notification message :

### URL for mobile device

Insert the IP address or domain name that used to connect the web page of subtitle view. If you're using port forwarding on KS-CC1, please insert the external IP address or domain name along with the external port number.

### Notification message

Insert the message that should be shown when you open the QR code page on the GUI(HDMI output) view.

## 1.4 Storage

This page provides the information of all storage connected to KS-CC1. You can select one storage and set it as the local storage to save recorded videos with the subtitles.

Interface	Disk name	Brand	Capacity	Free Space	Format
SD	Internal (SD Card)		58.47 GB	243.88 MB	Format

### Record disk settings

1. Select the storage device from the drop-down list.
2. Click Apply after setup is completed to take effect.

\* The storage must be formatted by the station before set as local storage.

### NAS Settings

You can set NAS as the local storage of KS-CC1, so the video and subtitles can be saved directly to the network storage. Fill in necessary information for your NAS and click apply. If the NAS is correctly mounted, you will get a "Applied successfully" message after clicking "Apply". Then, click the connection test to check if the station has the enough authorization to save recordings on NAS.

### Disk information

It lists all the storage devices connected to the KS-CC1 along with their information, available storage space, and total capacity. Any storage that are going to be mounted as the local storage of KS-CC1 must be formatted by KS-CC1 before mounting. Click "Format" to confirm formatting, and please be reminded that this will delete everything in the disk.

Disk information					
Interface	Disk name	Brand	Capacity	Free Space	Format
SD	Internal (SD Card)		59.47 GB	240.88 MB	<a href="#">Format</a>

## 1.5 System

The pages within System include the following:

The screenshot shows the Arec web interface. On the left is a dark blue sidebar menu with the following items: Media I/O, Video, Live Transcription, Storage, System (highlighted with a red box), and Account. Under the 'System' menu, there are sub-items: General settings, Network, Firmware, and Configuration. The main content area is titled 'General settings' and contains a 'Device identification' section. The fields are as follows:

- Hostname :** KS-CC1 (Note: Hostname follows RFC-952 internet host table specification.)
- Device description :** KS-CC1
- Brand :** AREC Inc.
- Model :** KS-CC1C-120
- Serial number :** KSCC120220050B
- MAC :** BC:BA:E1:0A:00:49

General settings	Contains device identification, date and time configuration, and booting settings.
Network	The device IP assignment in the networking.
Firmware	Displays the current firmware version, and provides web-based way to update firmware for the device.
Configuration	Export / Import the configuration, and reset to the factory default.

## 1.5.1 General settings

The basic information and initial date/time of this device are configured here.

**General settings**

**Device Identification**

Hostname: KS-CC1 hostname follows RFC-1918 reserved host table specifications.

Device description: KS-CC1

Brand: AREC INC.

Model: KS-CC1E-1001

Serial number: K1001100200000

MAC: 8CBAE10A-004B

**Date and time**

Device current date and time: 2022-08-10 17:49:12

Time zone: Asia/Taipei ✓

Setting mode: NTP service ✓

NTP server url: pool.ntp.org

**Boot image**

File format: PNG  
File size: 3 MB  
Resolution: 1920x1080

**Power**

Auto power off: OFF ✓

Auto power on: ON ✓

**Restart device**

### Device identification

Set the name (device description) for this device.

### Date and Time

Set the device date, time, and time zone manually/ be synchronized to PC, or with an external NTP (network time protocol) server.

### Boot image

Change the boot screen image. The boot screen is the image you will see when you boot up the device.

Click Browse button and select the desired file in the Open dialog box. The file name would appear with the newly uploaded image. Click Apply button at the bottom corner to apply the settings, or click **Cancel** Cancel to give it up.

Note: The boot screen file must be in PNG format, maximum size 1920x1080px.

**Power**

---

**Auto power off :**

Daily scheduled

**Time (hh:mm) :**

00 : 00

**Auto power on :**

Daily scheduled

**Time (hh:mm) :**

00 : 00

**Apply**

#### Power settings

**Auto power off:** select power off via daily scheduler or power button pushing. Please notice the scheduling and auto upload time before settings.

**Auto power on:** select power on via daily scheduler or power button pushing.

As setting finished, please click "Apply" button.

Restart device: Administrator can restart media station remotely.

**Restart device**

 All operations will be stopped.  
Please confirm to restart device.

**Confirm** **Cancel**

## 1.5.2 Network

By default, KS-CC1 uses DHCP to obtain an IP Address via a router or any DHCP server. To use a static IP address for your device, configure the network settings in this webpage.

The screenshot shows the 'Network' settings page. On the left is a dark sidebar with navigation options: Media I/O, Video, Live Transcription, Storage, System (expanded), General settings, Network (selected), Firmware, Configuration, and Account. The main content area is titled 'Network' and contains the following elements:

- Network settings** (Section header)
- A warning message: "The system will reboot after changing the network setting. Please log in, again."
- IP assignment :** A dropdown menu with 'DHCP' selected and a green checkmark icon.
- IP address :** A text input field containing '192.168.0.159'.
- Subnet mask :** A text input field containing '255.255.255.0'.
- Default gateway :** A text input field containing '192.168.0.1'.
- Primary DNS Server :** A text input field containing '192.168.0.1'.
- Secondary DNS Server :** A text input field containing '192.168.0.1'.
- An **Apply** button at the bottom.

### Network settings

IP assignment – Select DHCP to have IP address be allocated by a router or any DHCP server being connected; or Select Static IP and enter the required network settings including IP address / subnet mask / default gateway/ DNS server. And click "Apply" to take effect.

### 1.5.3 Firmware

This page displays the device firmware version. To update the firmware, click "Update" and select the firmware file of KS-CC1. Click "Open", the dialog box closes and the file name appears underneath. Click "Apply" to start firmware update or click "Cancel" to clean the selection.

Note: System will reboot automatically when the firmware update is completed. It might take a few minutes. Do not shutdown/ power off the system during firmware updating.

The screenshot displays the Arec web interface. On the left is a dark sidebar with navigation options: Media I/O, Video, Live Transcription, Storage, System (with a dropdown arrow), General settings, Network, Firmware (highlighted), Configuration, and Account. The main content area is titled "Firmware" and contains two sections. The "Firmware" section shows "BIOS version : V04YDM12", "MCU version : v0.3", and "Firmware : v2.0.0.14", with an orange "Update" button below. The "Service data" section is titled "Export the log file to your computer" and includes a "Description" label with a blue cursor icon, a text input field, an "Export" button, a "Service log" label, a dropdown menu showing "log" with a green checkmark, and an "Open" button.

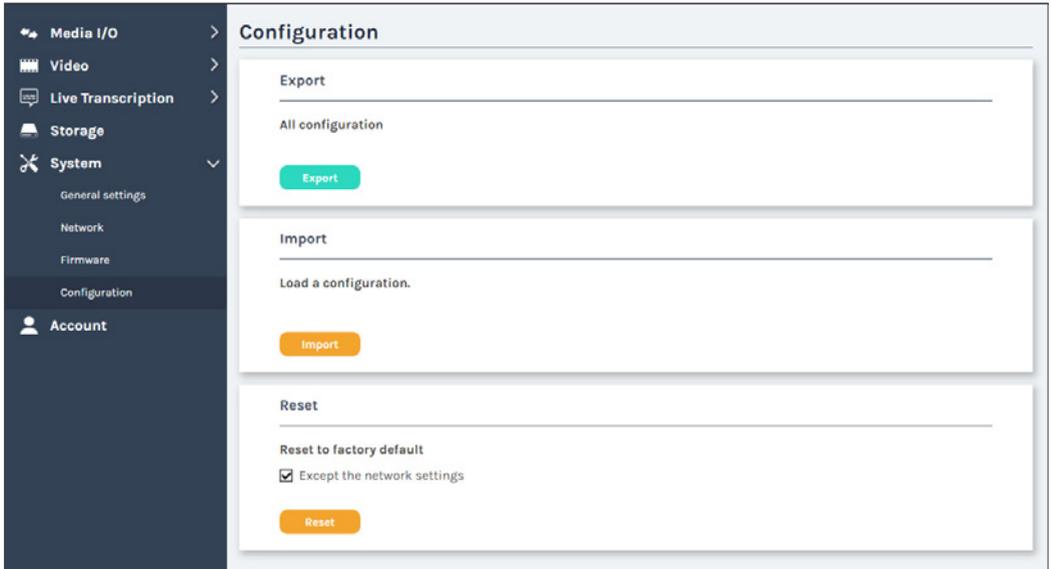
#### Service data

You may find the service log by clicking under "Service log". To export the debug log file to your computer, please insert the description and then click . There will be total three log files downloaded to your PC, .dat, .config, and .tar.

Note : The length of the string is 0~16 characters, allowing letters, numbers, symbols 11(~!@\$%^&\*+-\_).

## 1.5.4 Configuration

You can export or import the configuration in this page:



The screenshot shows the 'Configuration' page with a dark sidebar on the left. The sidebar contains the following menu items: Media I/O, Video, Live Transcription, Storage, System (expanded), General settings, Network, Firmware, Configuration (selected), and Account. The main content area is titled 'Configuration' and contains three sections:

- Export**: A section with a green 'Export' button.
- Import**: A section with an orange 'Import' button.
- Reset**: A section with an orange 'Reset' button and a checked checkbox for 'Except the network settings'.

### Export

Click "Export" to export a configuration file of the device.

### Import

Click "Import" to load a configuration.

### Reset

Reset the device to factory default. Check if you want to keep your network settings, and click "Reset". System will automatically reboot after reset.

\* This only reset the configurations of KS-CC1. It doesn't delete the recording in the local storage and the transcription service time.

## 1.6 Account

Users can set the system account password etc.

The screenshot displays the 'Account management' section of a web interface. On the left is a dark sidebar with navigation options: Media I/O, Video, Live Transcription, Storage, System, and Account. The main content area is titled 'Account management' and contains two sections: 'Administrator' and 'Video Manager'. Each section has a 'Username' field, 'New password' field, and 'Confirm password' field, followed by an 'Apply' button. The 'Administrator' section shows 'admin' in the username field, and the 'Video Manager' section shows 'video' in its username field.

Account Role	Username	New password	Confirm password	Apply
Administrator	admin			Apply
Video Manager	video			Apply

Changing username and password with Administration / Video Manager :

- (1) Username: Enter a new username for different account role
- (2) New Password: Enter the user login password.
- (3) Confirm Password: Enter the same password above for confirmation.
- (4) Click Apply.

## 1.7 Live Subtitle Web View

KS-CC1 has a live subtitle web view page that allow all the audience to view the live subtitle in the language of their preference. Each audience can select the language of the subtitle he prefers without interfere others.

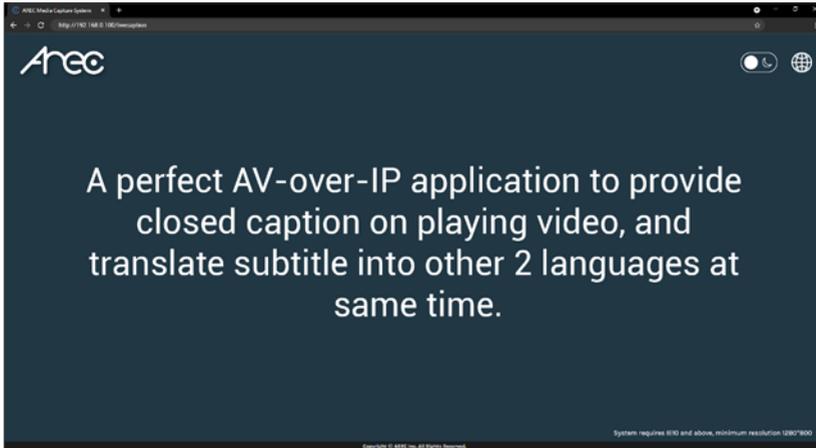
To connect the subtitle web view, you can inert the URL\* directly or by scanning the QR code\*\* shown on the GUI display.

\*The subtitle URL is [http://\[KS-CC1 address\]/subtitle](http://[KS-CC1 address]/subtitle). EX. <http://192.168.0.10/subtitle>

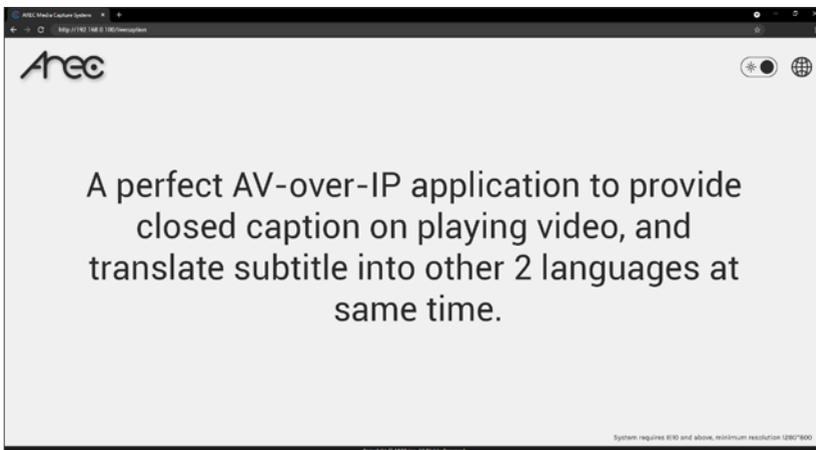
\*\*Please see ... for more details.

Audiences can switch the subtitle language by clicking the button in the top-right corner, and changing the view page to day/night mode for better viewing experience.

### Night mode



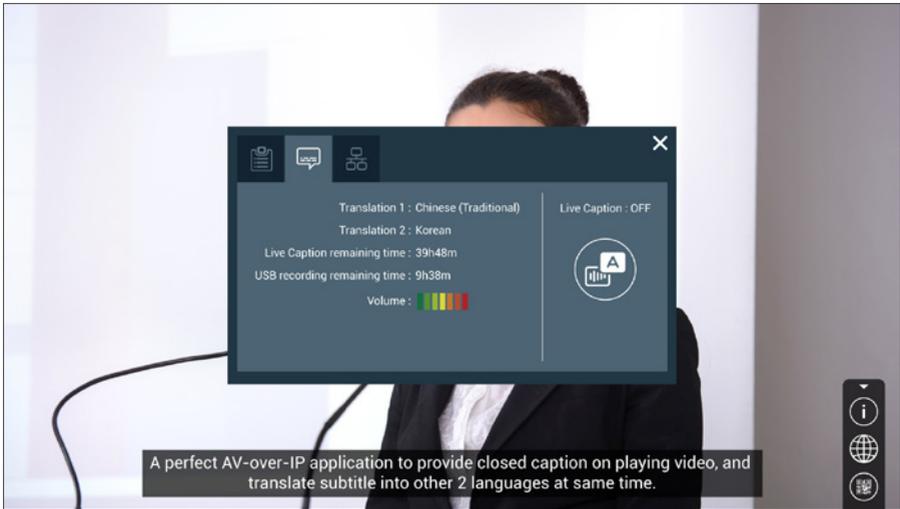
### Day mode



## Chapter 2 GUI

### 2.1 GUI

The KS-CC1 GUI(Graphic User Interface) operates on the HDMI output screen with a USB mouse or touch control device connected. GUI allows user to control live transcription start/stop. Users can see the live image of the video input source along with the subtitle when transcription is enabled. You can also show audience the QR code of the web page link for the live subtitle.



Simply connect a USB mouse to KS-CC1 and click the GUI menu icon in the bottom-right corner of the screen. The menu bar will pop up, and you should see three buttons in it. The first one is [Information & Settings](#) button followed by [Subtitle](#) and [QR Code](#).

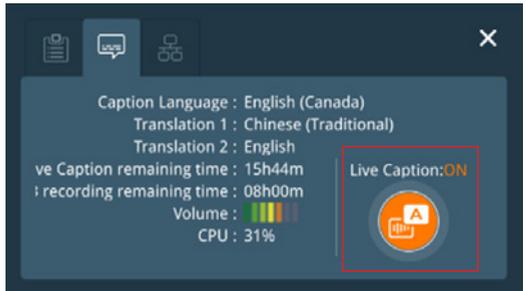
## 2.1.1 Information & Settings

### 2.1.1.1 System Information

You may find the basic system information in this tab as well as the current IP address.



### 2.1.1.2 Live Caption



In the live caption tab, it lists all three subtitles languages that currently set.

They can be changed in web admin when KS-CC1 isn't doing live transcription. To change the live transcription's/subtitles' languages, please see Web Administrator → Live Transcription → Live Caption settings for more detail.

You can also see the remaining available time for live transcription service and recording.

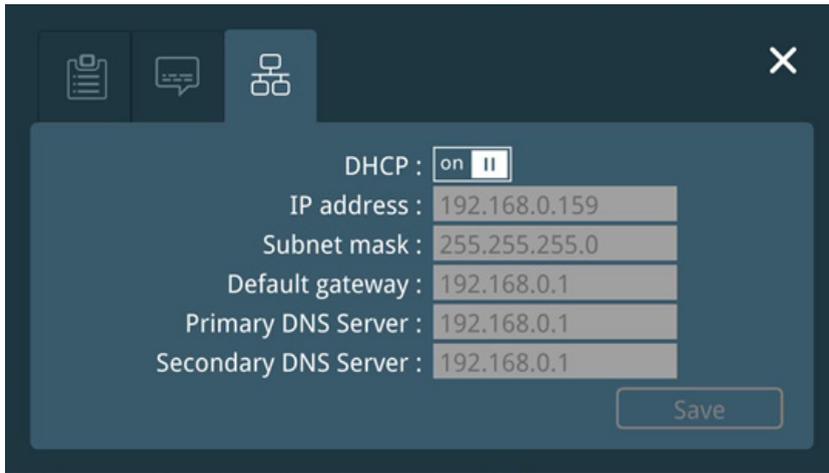
The volume bar indicates the current audio input volume level, so you can test if the speaker's voice/audio inputs are correctly captured by KS-CC1.

Click the  button to start/stop Live transcription.

The menu bar and the live caption button will change to orange when the live caption is enabled.

### 2.1.1.3 Network

In the network tab, the KS-CC1's network can be set to DHCP or to fixed IP with a USB keyboard connected.



### 2.1.2 Subtitle

Click the subtitle button to change the language of the subtitle shown on the GUI display or to disable it.

You may also click the subtitle to make it in full-screen view, and return to original GUI by clicking it once again.

\*Note: This only defines the language of the subtitle shown on the display or whether it should be shown, does not affect to the any individual web subtitle page.

The languages can be changed in the web administration, please see [Web Administrator](#) → [Live Transcription](#) → [Live Caption settings](#) for more details.

	Language of the speech-to-text recognition.
	Language of the subtitle 1.
	Language of the subtitle 2.
	Disable subtitle on GUI display/Select display language

### 2.1.3 QR Code



Clicking the QR code button it shows the QR code image that links to the live subtitle web page.

\*Note: The QR code link needs to be pre-edited in the web admin page. The URL must be accessible for users who will use it to view the live subtitle. Please see Web Administrator → Live Transcription → Live Caption preview for more details on the configuration.

### 2.1.4 Recording

The video and the subtitles can be saved when recording function is enabled.

After the recording function is correctly configured, it will automatically be started/stopped when the live transcription starts/stops.

**Limitation**

1. Video length(Max.) : 8hr
2. If record to an external USB drive with FAT32 file system, due to the maximum size of a single file saved on FAT32 drive is 4 GB, the max. record length would be less than 8 hours.

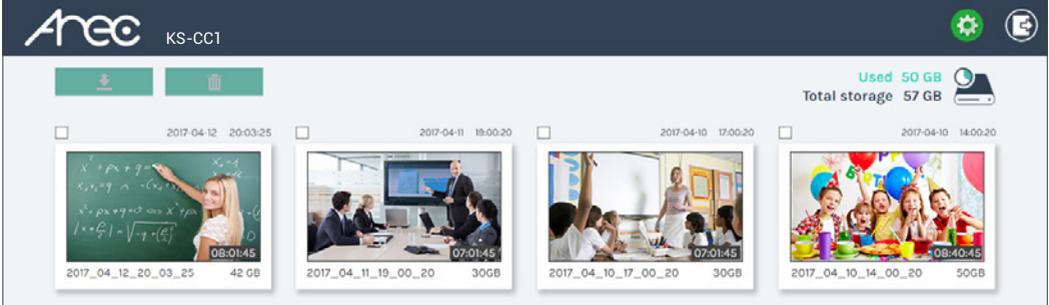
**Rule**

<p>The dialog on the right shown when all the following conditions are meet:</p> <ol style="list-style-type: none"> <li>1. "Record to USB" is disabled or No USB drive is connected unless it is mounted as local storage.</li> <li>2. "Loop recording" is disabled</li> <li>3. The local storage's free space is not enough for 8-hour recording.</li> </ol>	
<p>The dialog on the right shown when all the following conditions are meet:</p> <ol style="list-style-type: none"> <li>1. "Record to USB" is enabled.</li> <li>2. An USB drive is connected and it isn't mounted as the local storage.</li> <li>3. The USB drive free space is not enough for 8-hour recording * It can happen when using a FAT32 disk with plenty of space since you can only storage a single file with 4GB maximum on FAT32.</li> </ol>	

## Chapter 3 Video Manager

The KS-CC1 embedded Video Manager provides access to recordings produced by KS-CC1 itself and stored in the USB. The video and Snapshot lists are in descending order by the time of occurrence.

Entering the Video Manager webpage via [Administrator][Online Director] by clicking the  button; or log in Video Manager from the initial login page with default username video and password video.



The screenshot shows the Arec KS-CC1 Video Manager interface. At the top left is the Arec logo and 'KS-CC1'. On the right, there are settings and user icons. Below the header, there are two buttons: a download icon and a trash icon. The main area displays a list of video recordings with the following details:

Thumbnail	Date	Time	Size
	2017-04-12	20:03:25	42 GB
	2017-04-11	19:00:20	30GB
	2017-04-10	17:00:20	30GB
	2017-04-10	14:00:20	50GB

Storage information: Used 50 GB, Total storage 57 GB.

### 3.1 Video Management

The Video Manager allows users to download, delete, and preview the recordings.

#### 3.1.1 Download the recording

Select the recording and click  to download. The recording packages will be downloaded to your computer including mp4 and dataset (with subtitles) file. These are typically saved to the default download location used by your browser.

#### 3.1.3 Delete the recording

You may delete recordings manually to free space of the local storage.

Select the recording and click  to delete it. A message box will pop up for confirmation. Click Confirm to permanently remove the recording. If the video list doesn't update immediately, please refresh the web page to reload the list

### 3.1.3 Playback the recording

Click on the recording and you will be directed to the video preview page. Use the player controls at the bottom of the window to watch the video.

The screenshot displays the Arec video player interface. At the top left, there is a back arrow and the text 'Content information'. Below this, the word 'Movie' is displayed. A red circle with the number '1' highlights the recording date and time '2022-08-08 17:58:10' in the top right corner. A red circle with the number '2' highlights the main video player area, which shows a man in a white shirt and dark vest speaking at a podium. A red circle with the number '3' highlights the playback controls at the bottom of the video player, including a play button, a progress bar showing '0:00 / 0:38', a volume icon, and a full-screen icon. A red circle with the number '4' highlights a thumbnail of the video below the main player, which includes the text 'Movie' and '22 MB' and a checkbox labeled 'Data set'. A red circle with the number '5' highlights a green 'Download' button at the bottom of the interface.

1. Recording date and time
2. Playback window
3. Playback controls
4. Video files and data set (files containing metadata, thumbnail images, and bookmarks.)
5. Download button

## Table of On-Screen Display Icons

The KS-CC1 provides HDMI output for GUI control and preview.

Under certain circumstances, there will be event icons shown in the top-right corner of the display or pop-up message to indicate the different status of the device. Please find the list below for more details.



Speech-to-Text Recognition Error



Out of balance



Unstable Audio Source



Server Authentication Error



Disk full



Disk failure



Network connection failure



Live Streaming Error



Front USB drive mount



Front USB recording error



Operation is denied



Time Error



Overheat Error



Firmware update failure



Firmware updating



Shutdown confirmation



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Made in Taiwan  
Date : 2022.08.01

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