

AVerMedia VueSign CMS v2.1 User Manual

Disclaimer and Copyright.....	2
Disclaimer.....	2
Copyright and Trademark Information.....	2
Headquarter	3
Introduction.....	4
Networking Requirements	4
Ethernet Switches	4
Routers with DHCP service	4
Firewall and NAT(Network Address Translation)	5
HTTP port 80	5
TCP port 9300	5
Multicast group 239.255.255.250 port 1900	5
TS/UDP multicast on 224.0.0.0~239.255.255.255, port 1024~65535.....	5
Login to CMS and Change Password.....	5
Installing and Using AVerReceivers	7
The Remote Controller	7
Power	7
Arrows/OK/Return	7
Volume/Mute	8
Home	8
Settings/All Videos/Favorites/History.....	8
First-time setup to connect to CMS	8
Set-up for maintenance	13
Language.....	13
Network	14
Date and Time	19
Device.....	22
Watching on-demand videos	24
All Videos.....	25
Managing AVerReceiver	27
Manage AVerReceivers	27
Manage Firmware and Change Boot Logo	28
Managing Video On Demand.....	30
Managing MP4 video.....	30
Upload MP4 video	31

Upload Single Video	32
Upload Multiple Videos	33
Managing Digital Signage	34
Templates	35
Built-in Templates	35
Basic template properties	37
Preview	38
Media Player	38
Slideshow	40
Time	42
Text	42
HTML	42
RSS	43
Weather	44
Offline Digital Signage with Exported Templates	45
Importing Templates	46
Schedules and Tasks	46
Sequential Tasks	47
Scheduling Tasks	49
Mixing Sequential and Scheduling Tasks	51
Over-night Scheduling Task	51
Live Channel and Encoder	52
AVerCaster Series Encoders	53
AVerCaster HD Duet Plus (F239+) and AVerCaster Pro/Premium	53
AVerCaster Lite (SE510)	57
Other-brand Encoders and IP Cameras	63
Group and Category	64
Group	64
Category	66
Emergency Bulletin	68
Backup Database	70

Disclaimer and Copyright

Disclaimer

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Headquarter

Address: No.135, Jian 1st Rd., Zhonghe Dist., New Taipei City 23585, Taiwan

Website: solutions.avermedia.com

Support: Video.Solutions@avermedia.com

Telephone: +886-2-2226-3630

Introduction

AVerMedia VueSign CMS is a software-based management service, hosted on industrial PC and packaged into products such as BM110, BM130 and BM510. This service is accessed via browsers from your laptop or PC and makes easier the management on video contents and deployment of encoder/decoder devices. Currently only Google Chrome browser is supported.

AVerReceiver is an Android-based player/decoder capable of delivering multimedia contents to digital signage and video on demand applications.

AVerCaster series encoders provide industrial-strength streaming service. When combined with VueSign CMS and AVerReceiver they add live streaming to the already rich application in digital signage and video on demand applications.

This user manual introduces the daily operation and management facilities provided by the VueSign CMS, and how to install and watch video programs on AVerReceiver.

Networking Requirements

VueSign utilizes networking services for quick and trouble-free delivery of media contents. Requirements on networking devices and their configurations are outlined in this section.

Ethernet Switches

When delivering multicast streaming to add live video to your application, it is important to note that Ethernet switches must properly support IGMP snooping. Switches without a properly working IGMP snooping function may either fail to deliver multicast streaming to AVerReceivers or turn multicast into local broadcast and greatly decrease the utilization of network bandwidth.

It is imperative to consult with the providers of your Ethernet switch to make sure IGMP snooping is supported.

Routers with DHCP service

Dynamic IP assignment using DHCP is required for AVerReceivers. After initial setup from DHCP, AVerReceiver can be changed to use static IP. But this adds unnecessary burden on deployment, and is not recommended. VueSign CMS will provide all the functions necessary to manage the AVerReceivers in your deployment.

VueSign CMS services running on BM110, BM130, BM510 are best managed with static IP. This is so remote management via web browser can have a fixed URL to save to your bookmark.

AVerCaster encoders can be running on dynamic IP assignment using DHCP or static IP. Generally static IP is a better choice, for the same reason as VueSign CMS.

Firewall and NAT(Network Address Translation)

Most production networks are guarded by firewalls or separated by NAT. Below is a list of firewall exceptions and port-mapping requirements for your consideration.

HTTP port 80

HTTP port 80 is the default port on which VueSign CMS provides service. AVerReceivers fetch media contents from Internet (RSS, weather, HTML) and from CMS server via HTTP 80 port. If any of the following is true, please add another firewall exception:

1. Contents from RSS, weather or HTML is on another port, such as 8080.
2. VueSign CMS is installed on port other than the default 80.

TCP port 9300

Port 9300 is used between receivers, CMS servers and web browser for immediate inter-communication.

Multicast group 239.255.255.250 port 1900

This multicast group is used for service discovery. This makes setting up hundreds of AVerReceivers so much easier, without manually entering the IP address of CMS server when installing each AVerReceiver.

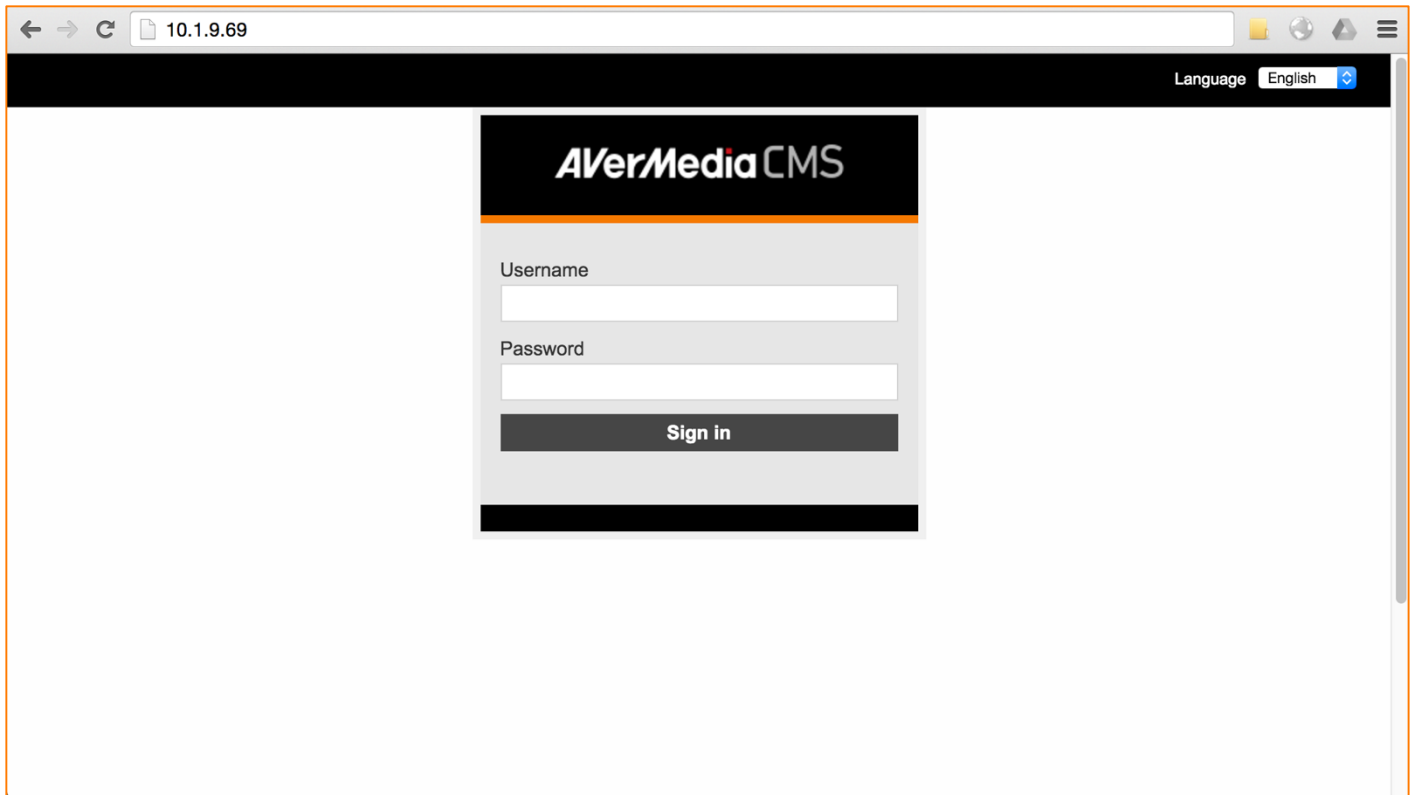
TS/UDP multicast on 224.0.0.0~239.255.255.255, port 1024~65535

Video streaming via TS/UDP multicast are deployed in this range of IP address and port numbers. If you deploy live streaming using TS/UDP multicast, be sure to set up firewall to allow these traffic.

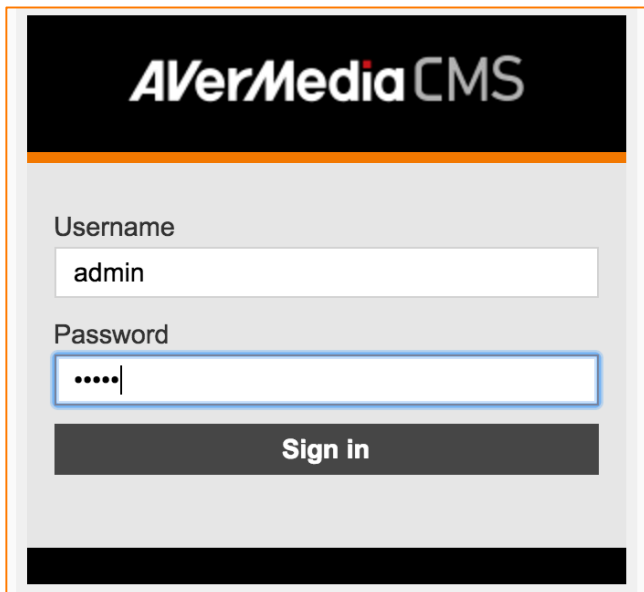
Login to CMS and Change Password

VueSign CMS service is operated from your web browser running on laptop or PC. Only Google Chrome browser is supported. To login to CMS service, please launch Chrome browser and

connect to the URL: [HTTP://IP-address](http://10.1.9.69).

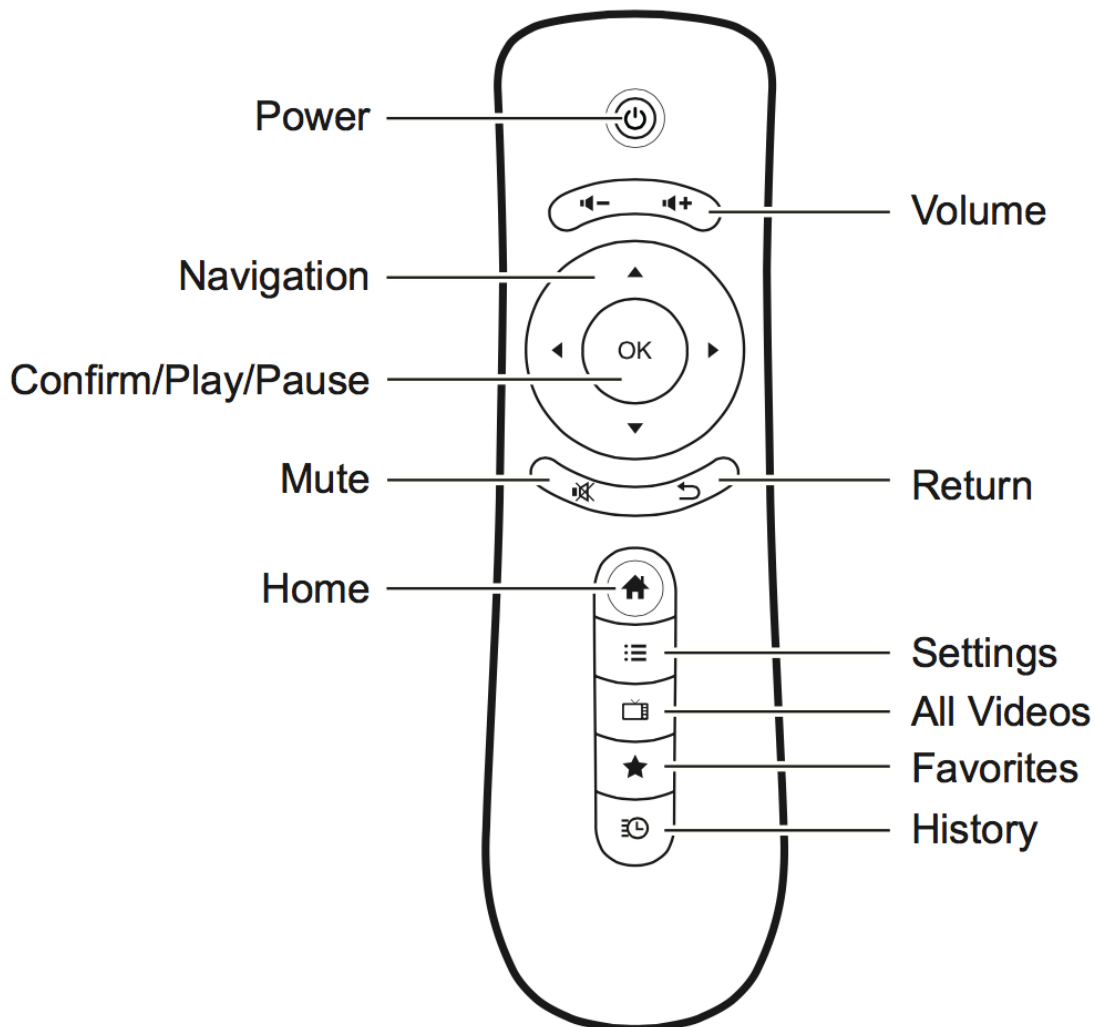


Default username is “admin” and password is “admin”.



Installing and Using AVerReceivers

The Remote Controller



Remote controller for AVerReceiver operates on 2.4GHz RF and works without line of sight between the controller and the tiny RF receiver installed at the USB port of AVerReceiver.

Power

Power key on remote controller puts AVerReceiver to stand-by mode. As a result the connected HDMI monitor or TV will shutdown eventually. This cuts down energy consumption.

Arrows/OK/Return

Use the four arrow, OK and return keys to navigate in the menus and making adjustments. The OK key also serves as "Play" and "Pause" in the media playback functions.

Volume/Mute

Adjusting audio volume or mute entirely using these 3 keys.

Home

Home key triggers a restart of AVerReceiver software and brings you back to the main screen.

Settings/All Videos/Favorites/History

These four keys are not available at version v2.1.

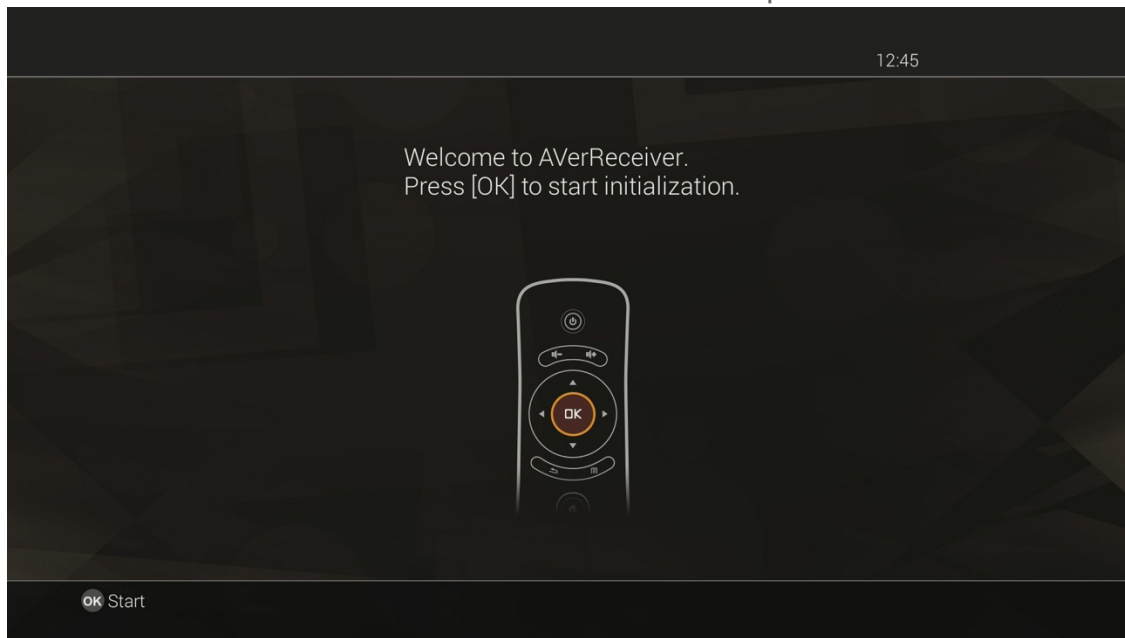
First-time setup to connect to CMS

First connect the RF receiver of remote controller, power cable, network cable and HDMI cable to AVerReceiver. And use the remote controller and follow on-screen instructions to setup this AVerReceiver.

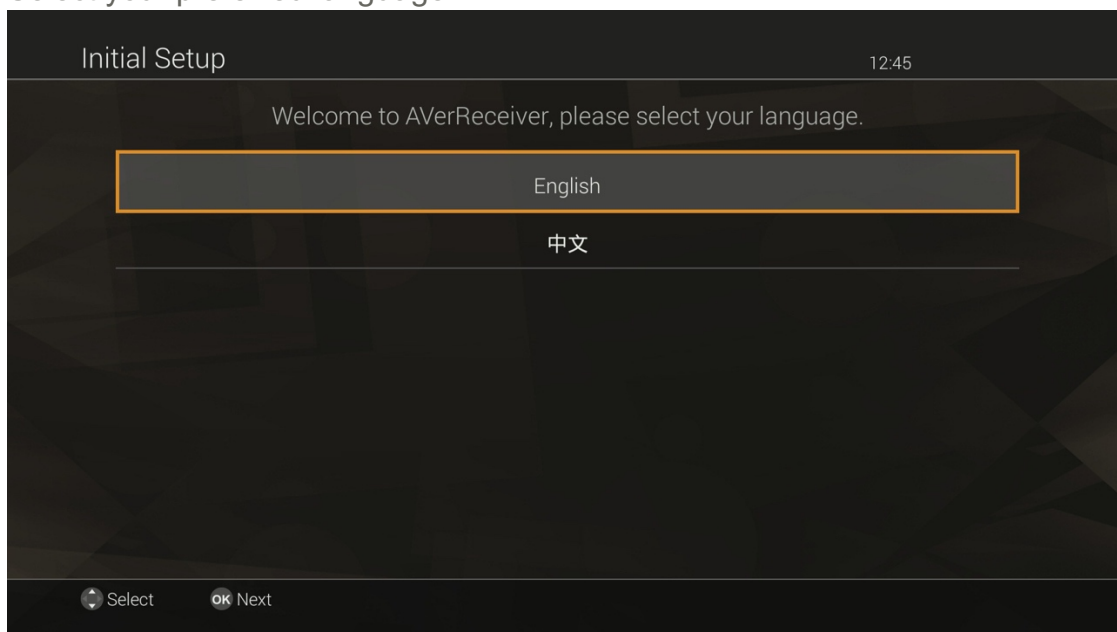
When power up, wait a moment for the boot process to finish.



Press “OK” on remote controller to start first-time setup.



Select your preferred language.

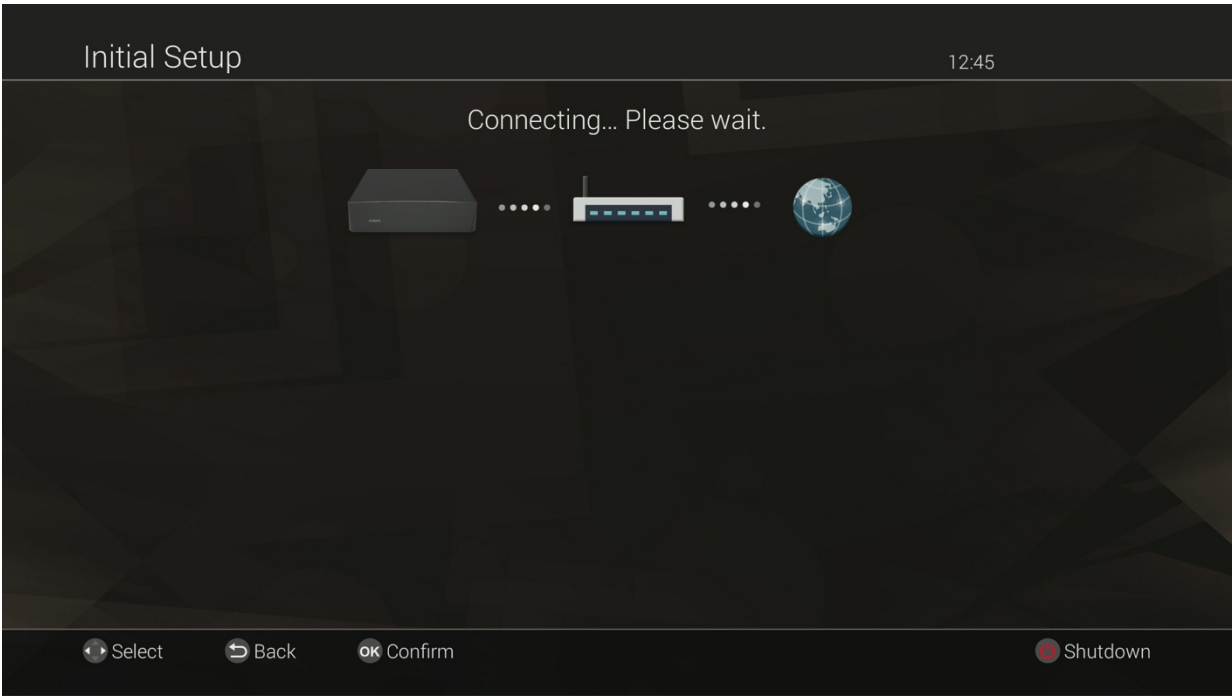


AVerReceiver must be installed in a network with DHCP service, in which case the networking settings will automatically be taken care of. You can press “OK” to accept the auto-assigned IP

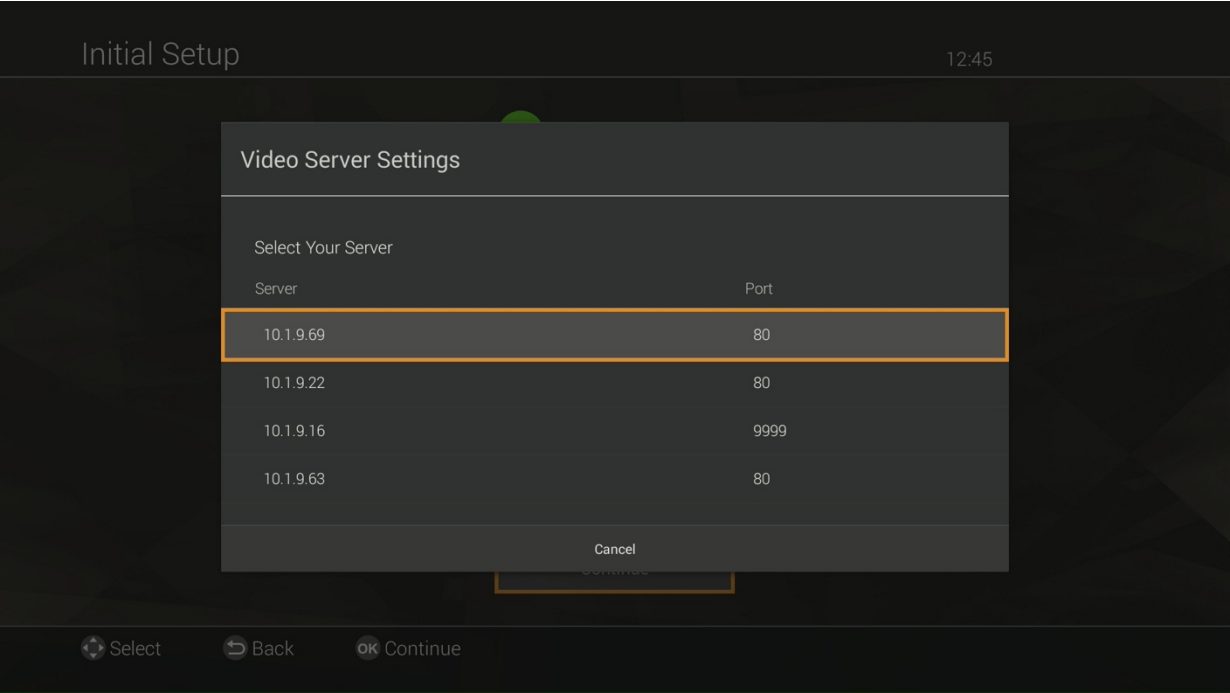
address or navigate to the right side to enter your own network settings.



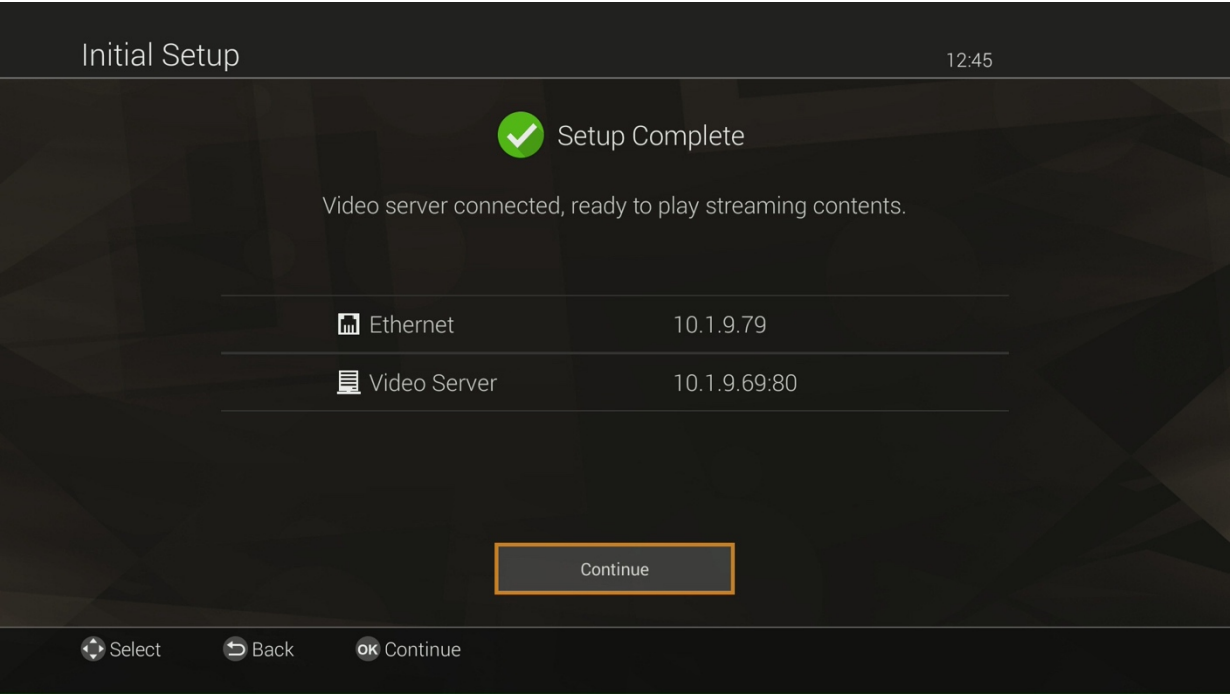
Next AVerReceiver tries to search in the local area network for a CMS service to connect to. Please wait a moment.



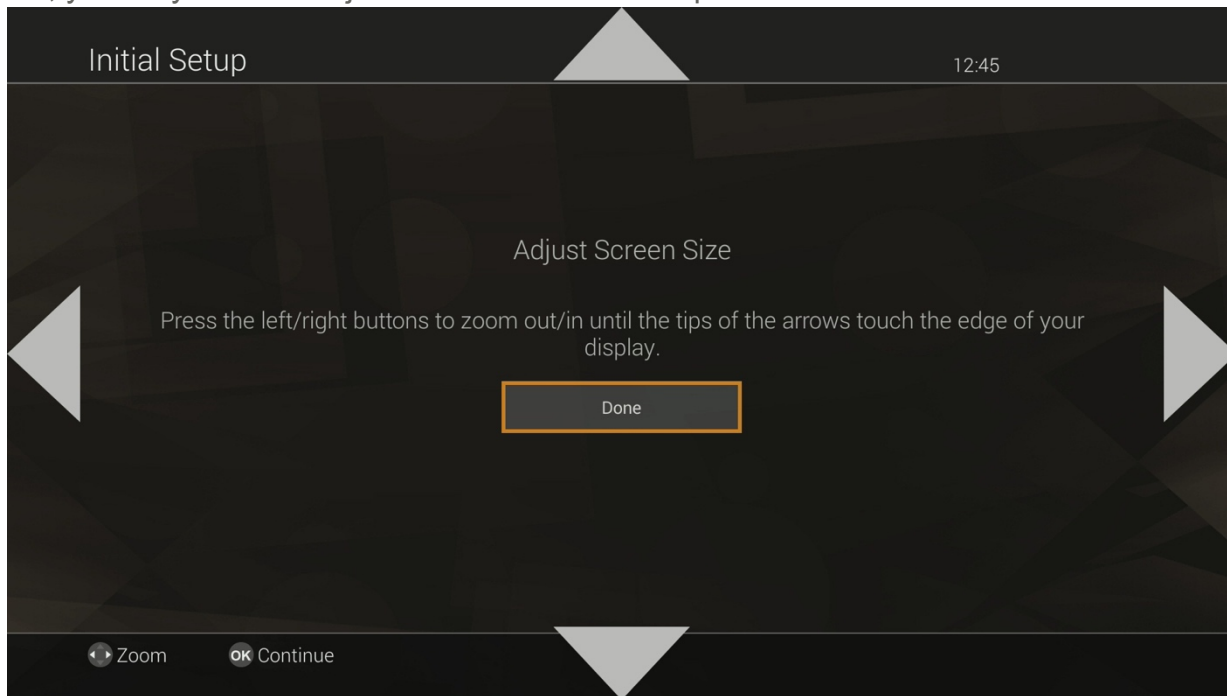
Please select the one CMS server to connect this AVerReceiver to.



If a connection is made successfully



Last step is adjusting the screen size. Due to over-scan or under-scan feature of HDMI monitors or TV, you may need to adjust the screen size for optimal results.

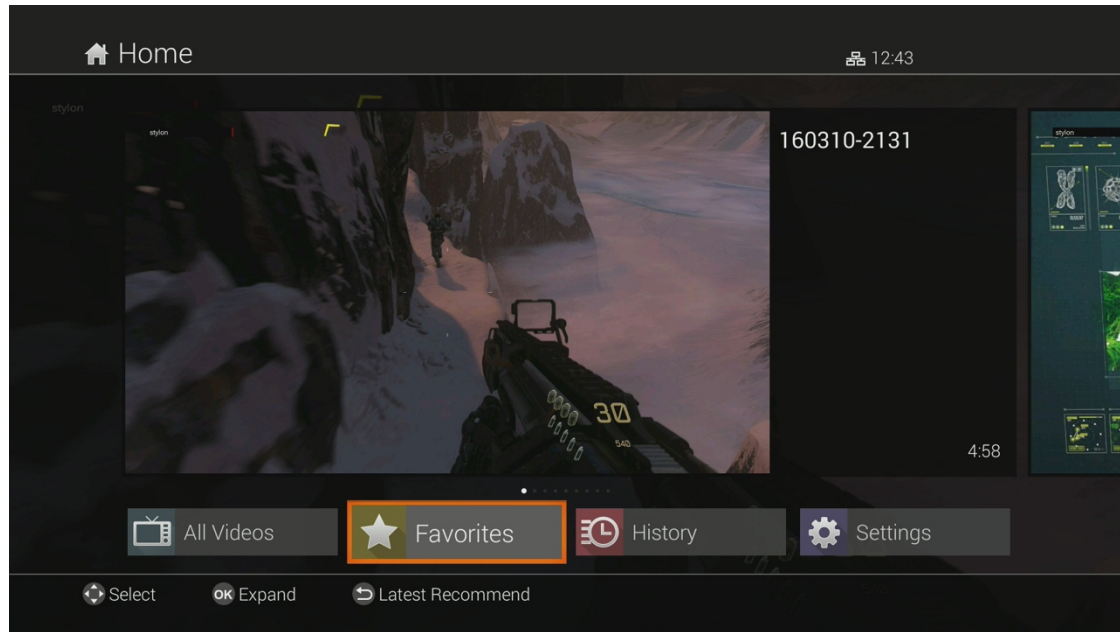


Select “Done” will finish the set-up process and brings you to the boot logo. After a moment you can start managing AVerReceiver from CMS.



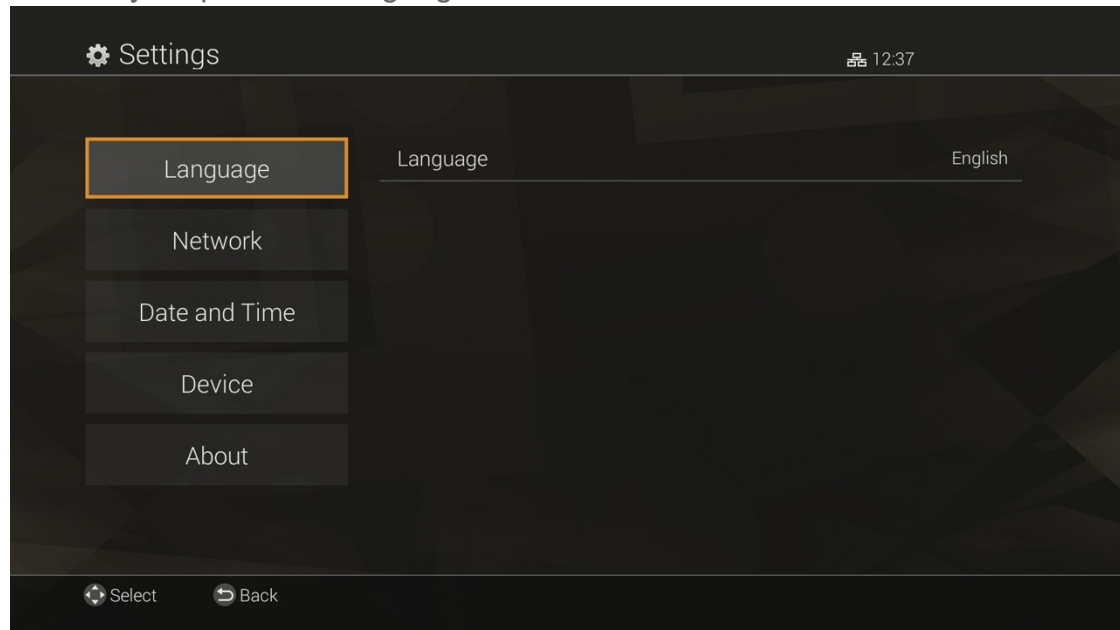
Set-up for maintenance

In Video-on-Demand mode, set-up is accessible from the main screen. If a AVerReceiver is in Digital-Signage mode, please temporarily change it back to Video-on-Demand mode in the CMS management web.

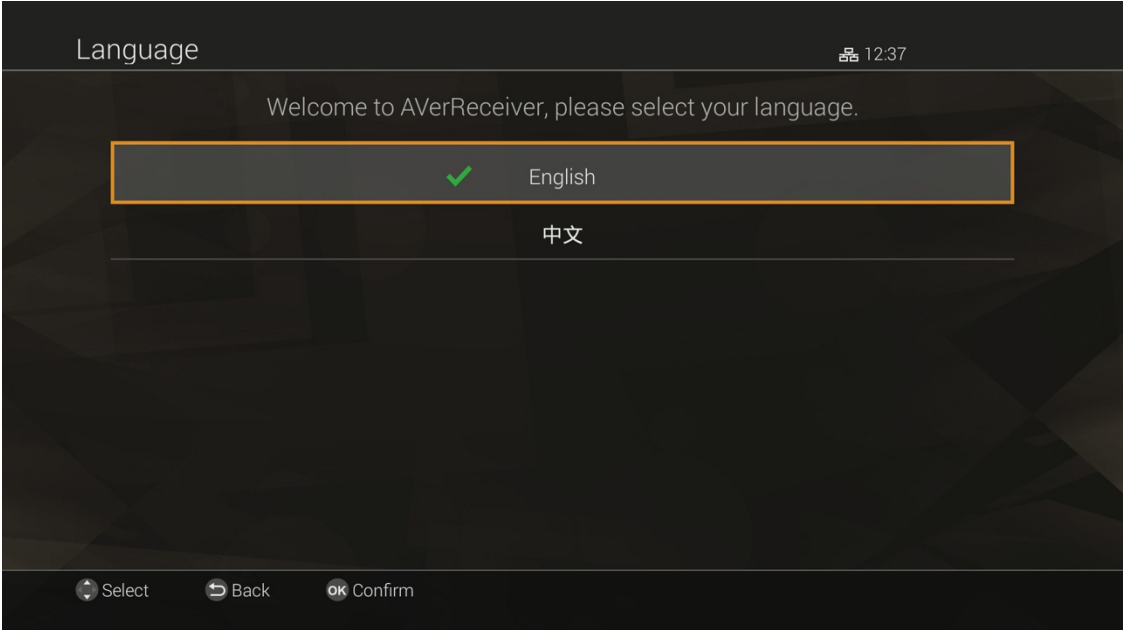


Language

Choose your preferred language of the user interface.

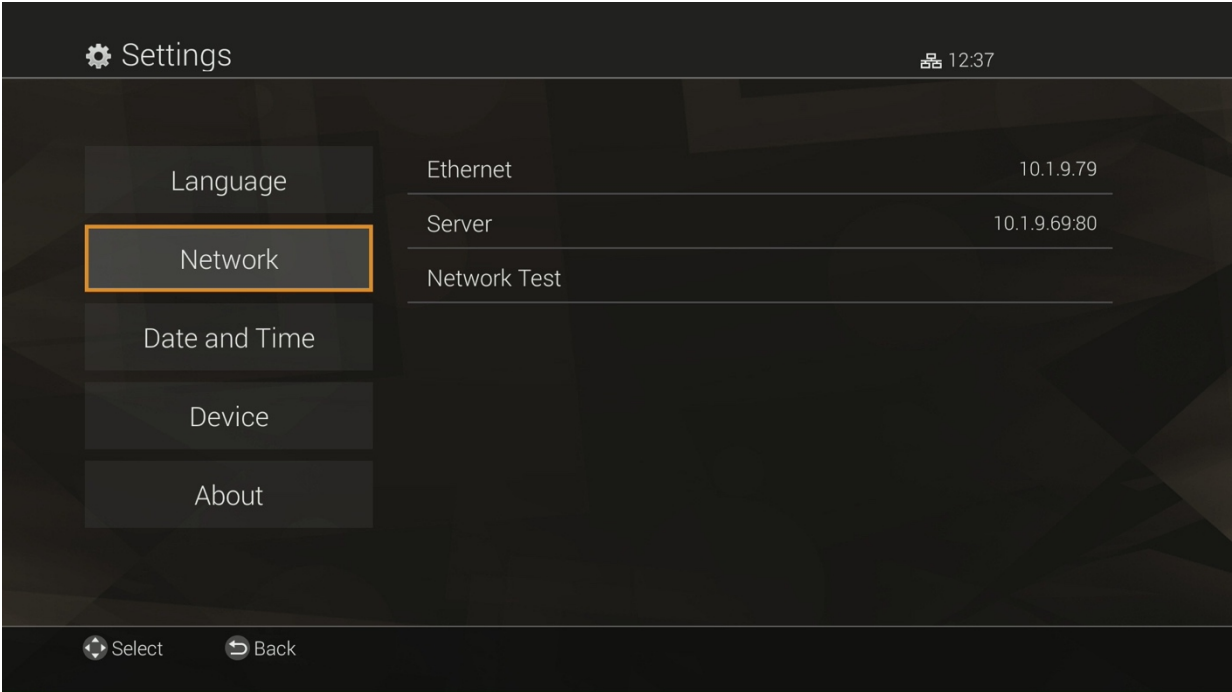


English and Chinese are available.

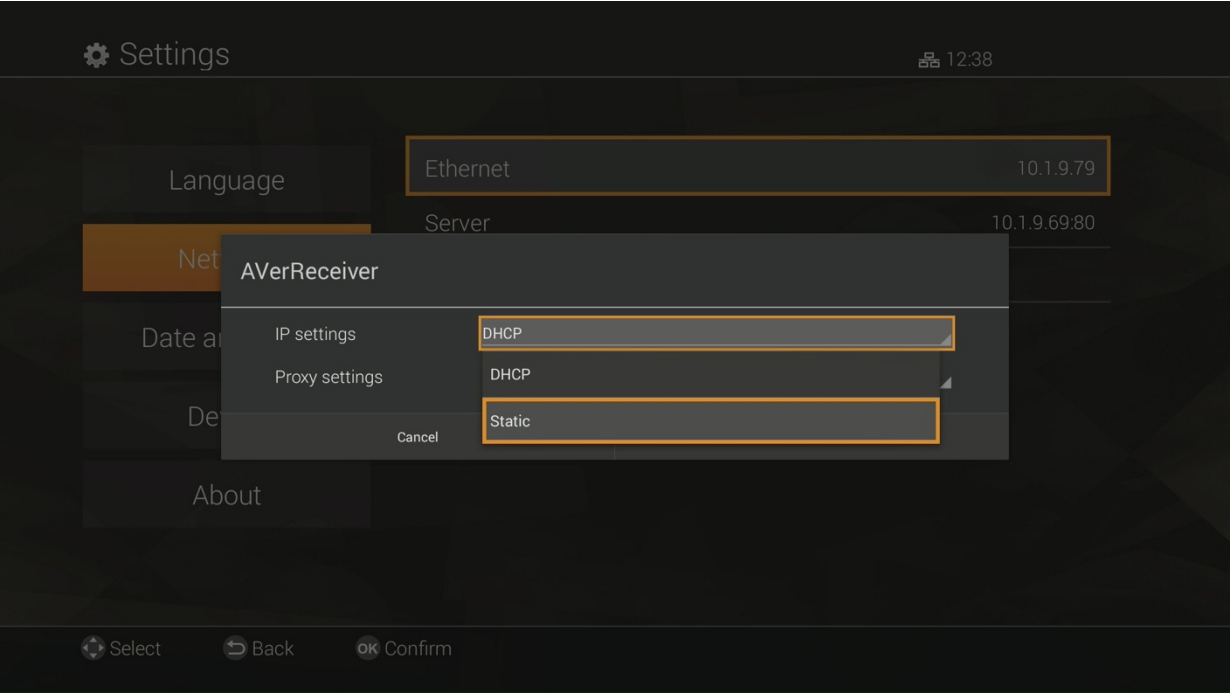


Network

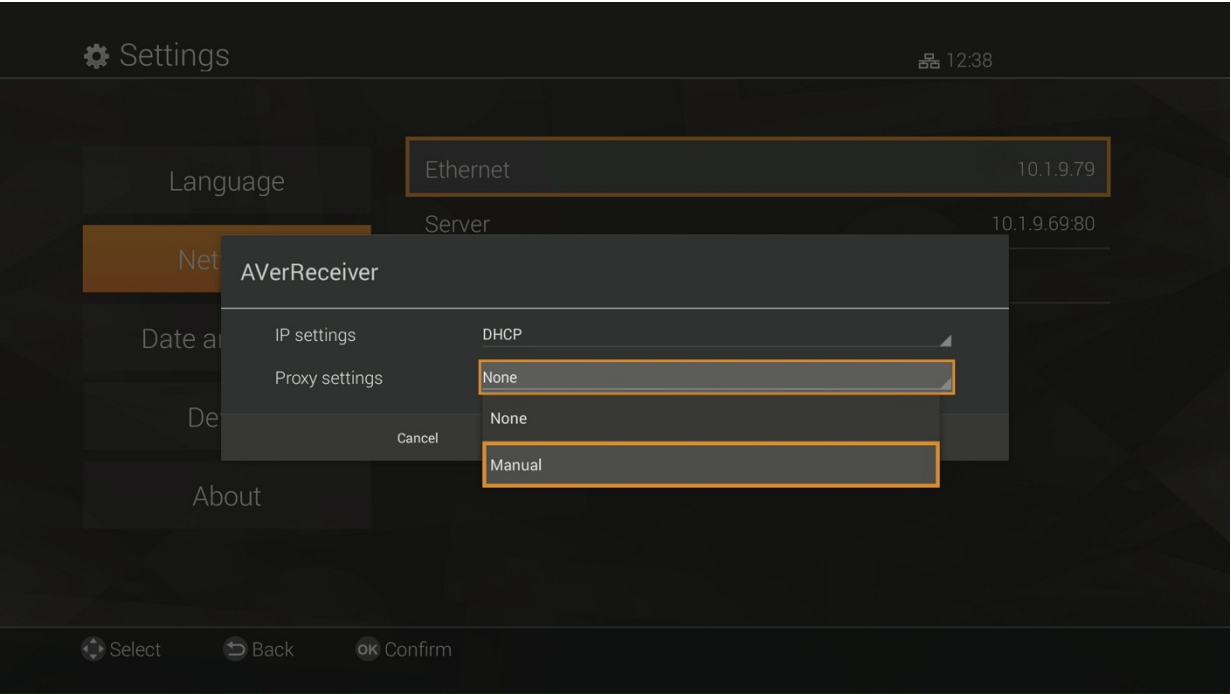
In network settings you can choose between static or dynamic IP assignment and change the proxy to connect to Internet. This is especially important for weather, RSS and HTML services.



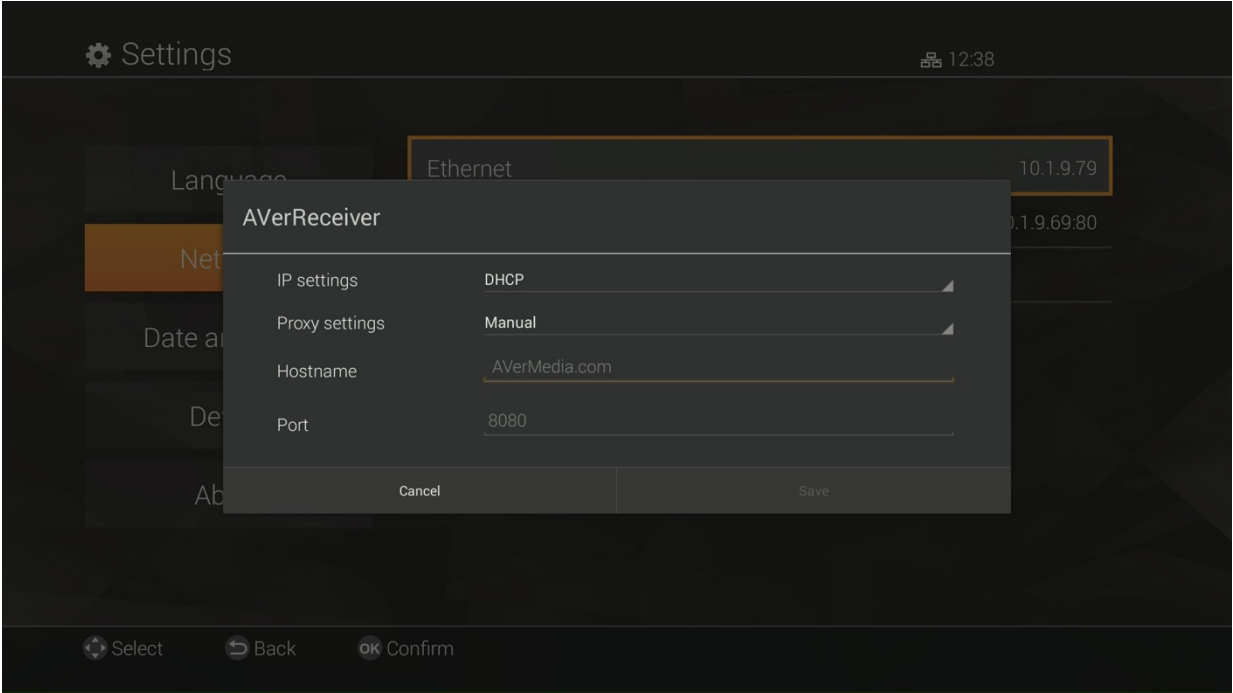
Choose between static and dynamic IP assignment.



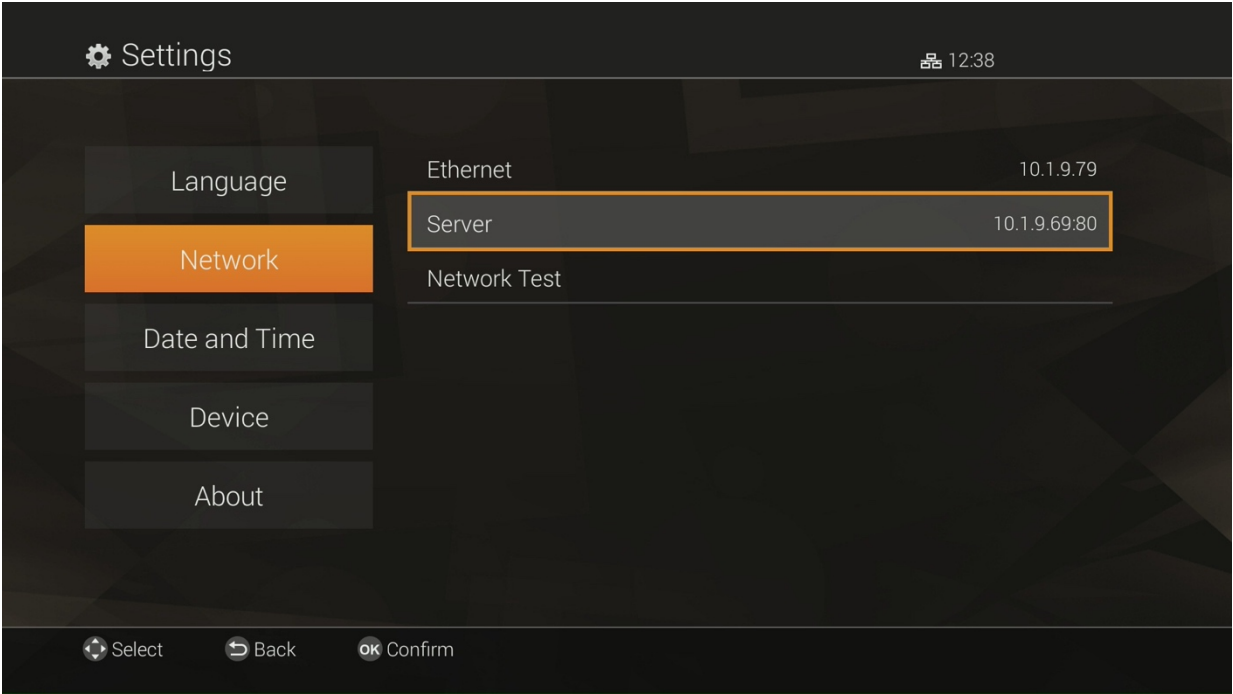
Manually add proxy settings.



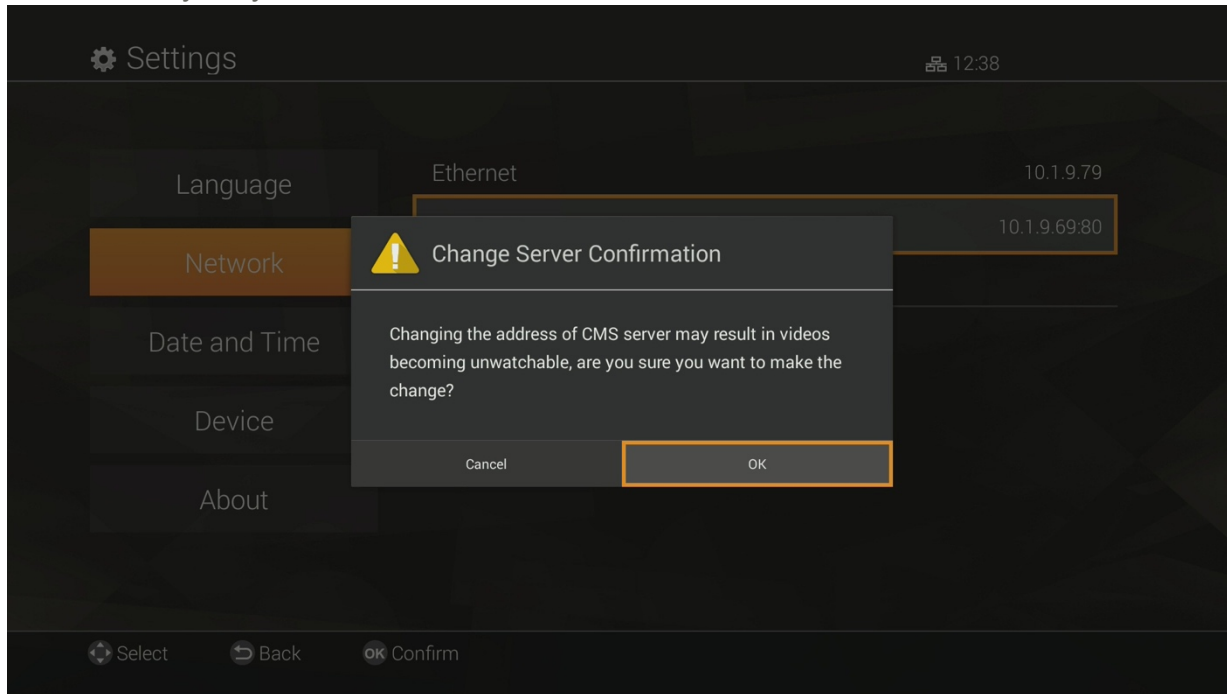
Enter the name and port number of proxy server.



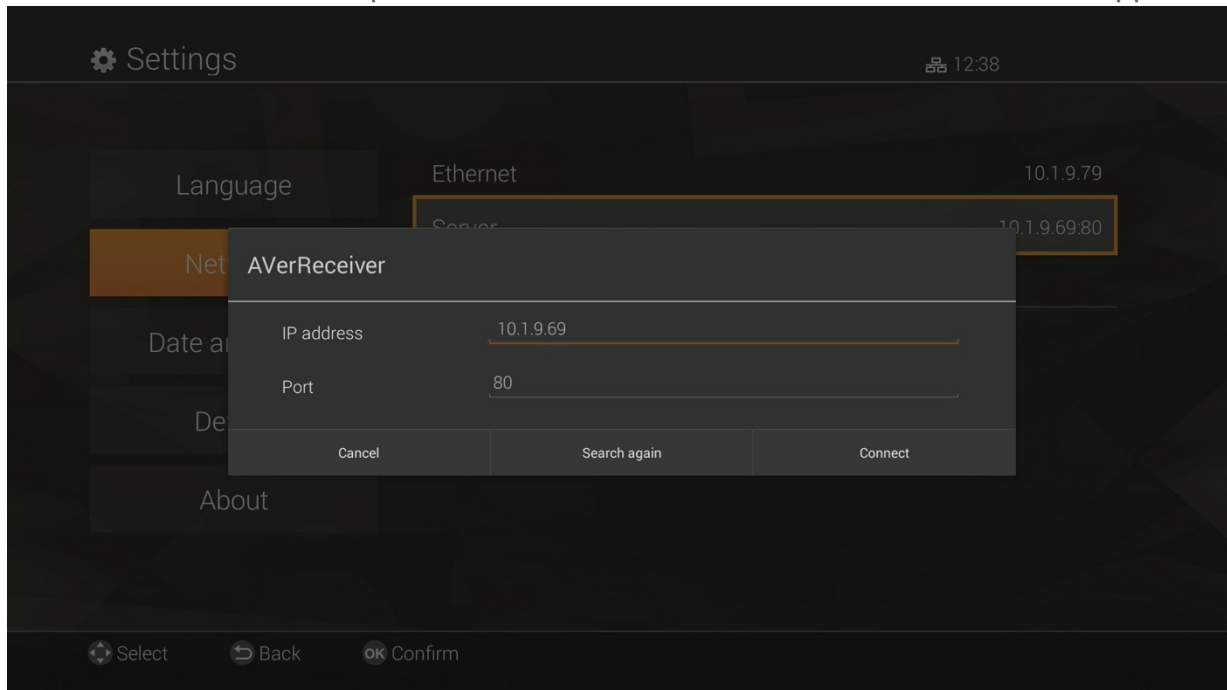
Change the CMS server address for maintenance or migration purposes.



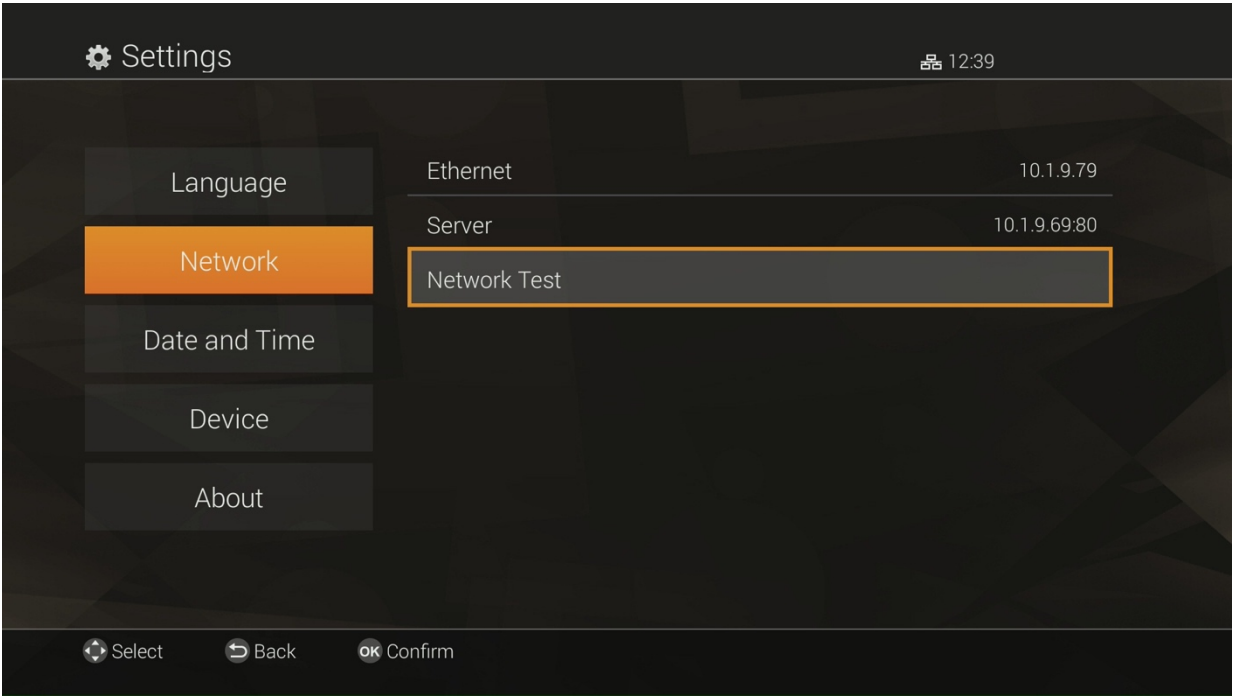
You will be warned that switching to another CMS may result in some video not accessible because they may not be available on the new server.



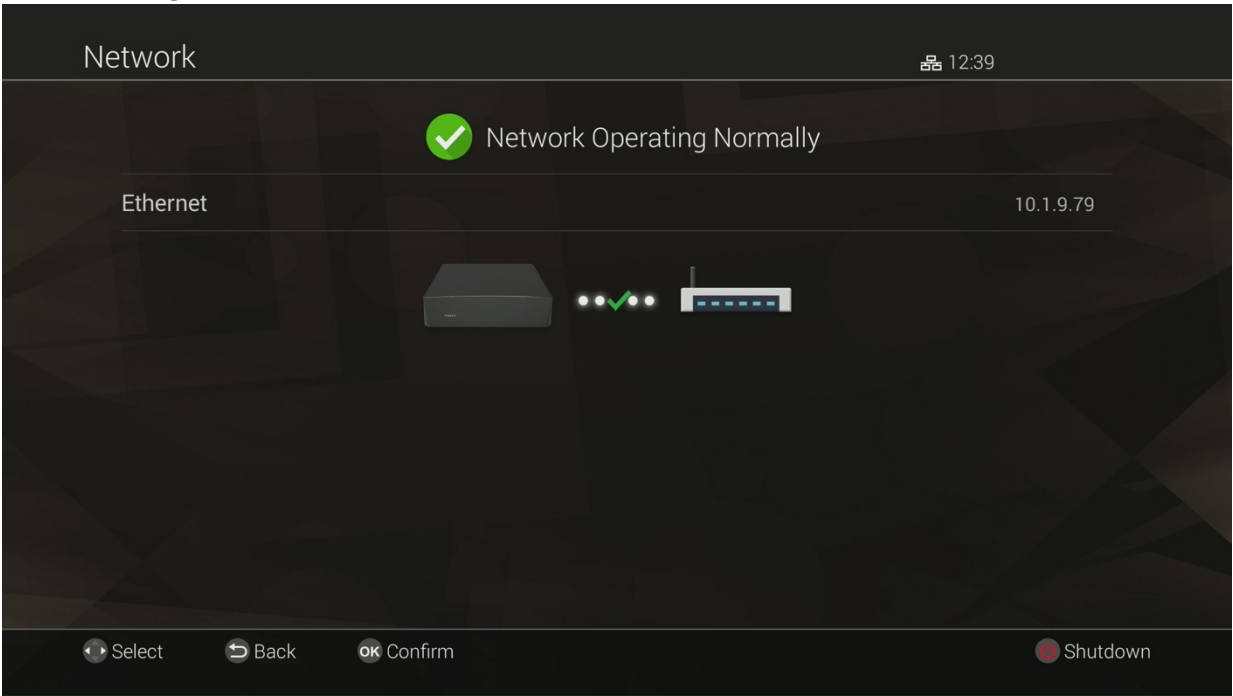
Enter the IP address and port number of the CMS server. Hostname is also supported.



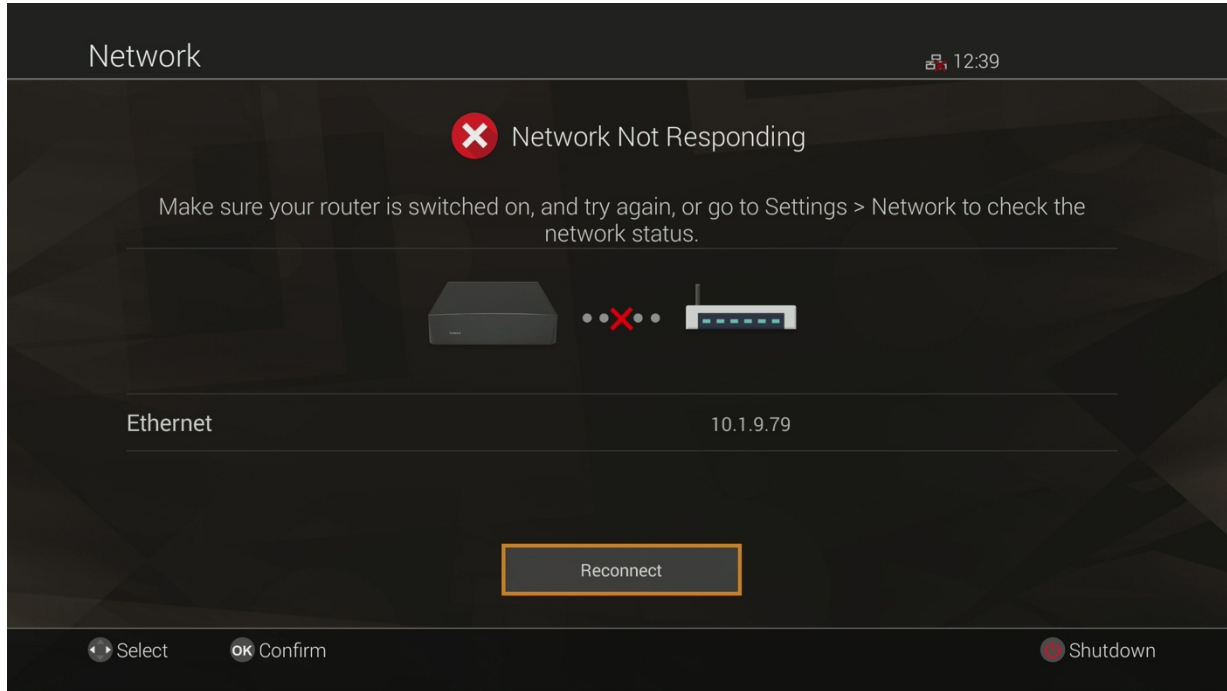
Network testing makes a connection to CMS server to check if networking between CMS and receiver is good.



If networking is OK:

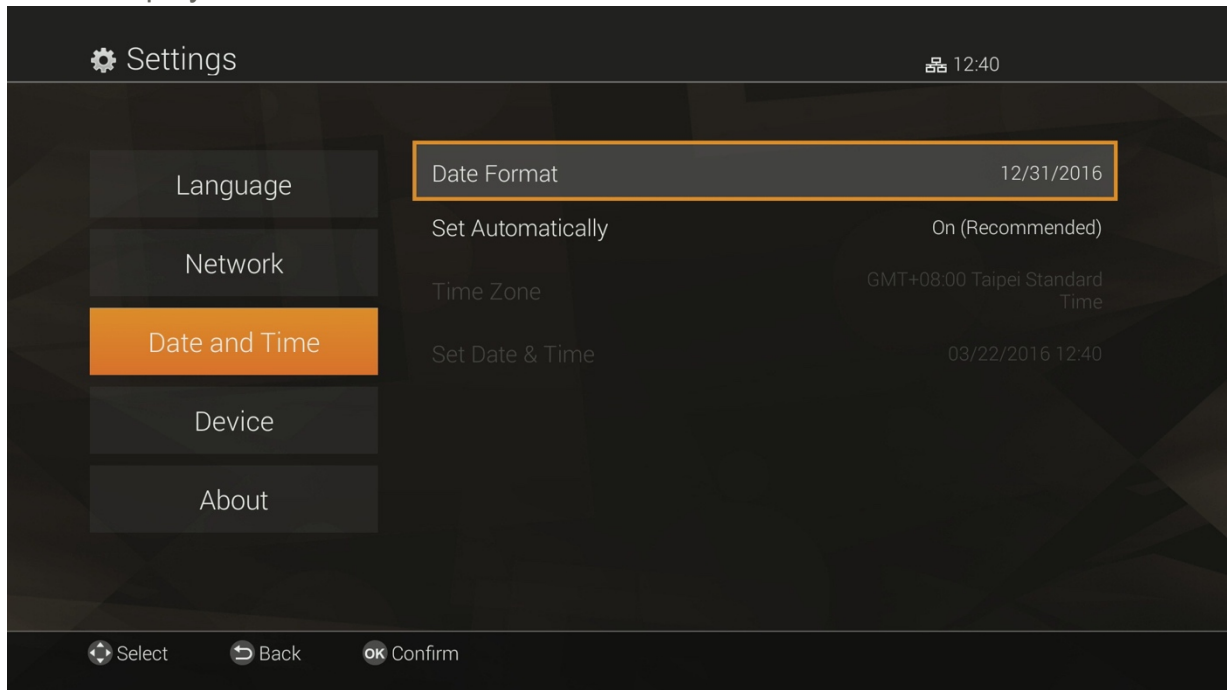


If networking is not OK, please check the settings and cabling and press “Reconnect” to try again.

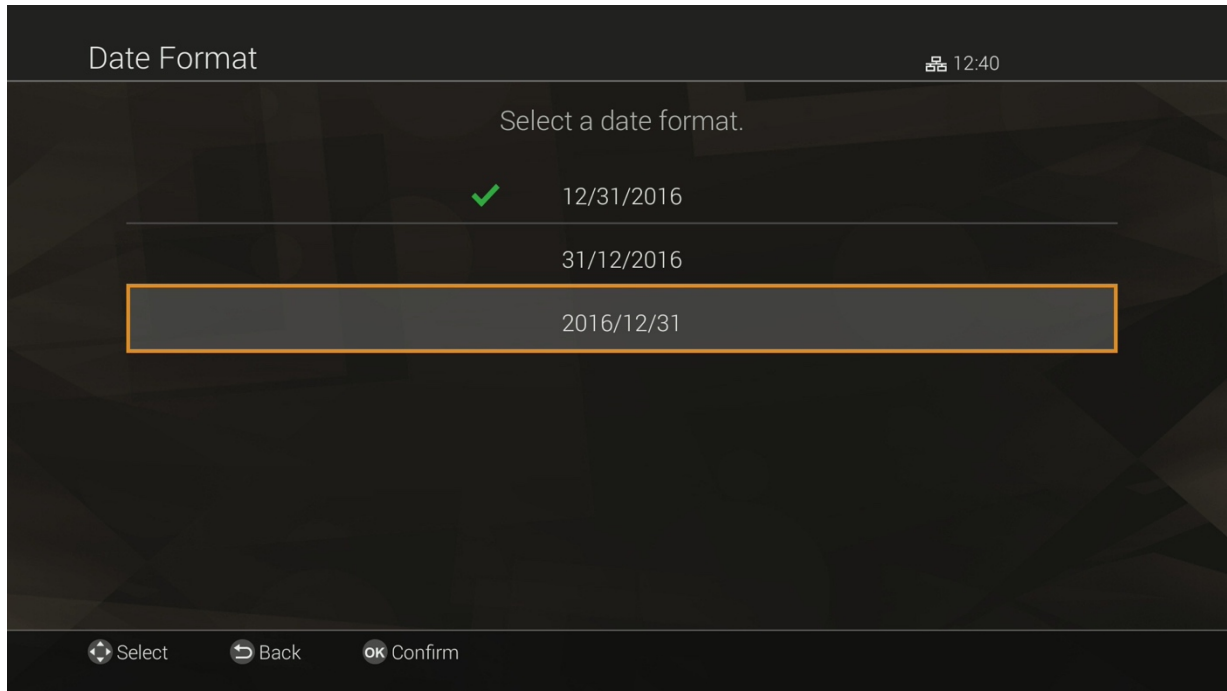


Date and Time

Select display format of date and time here.

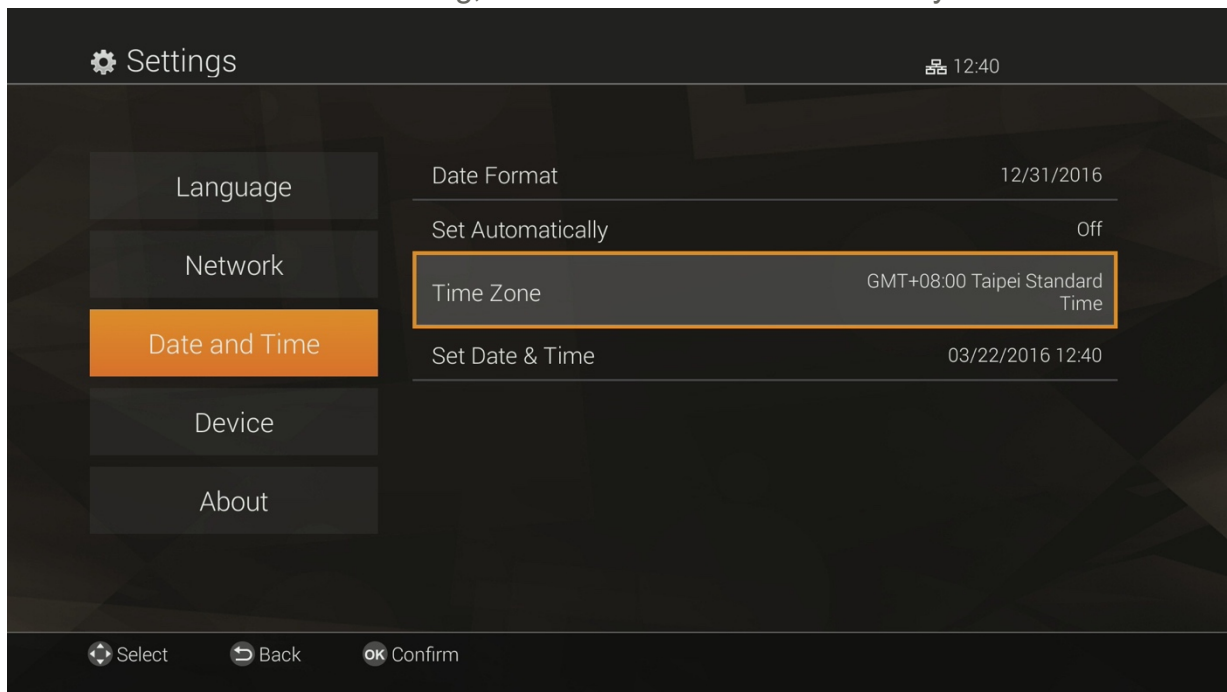


There are MM/DD/YYYY, DD/MM/YYYY and YYYY/MM/DD formats available.

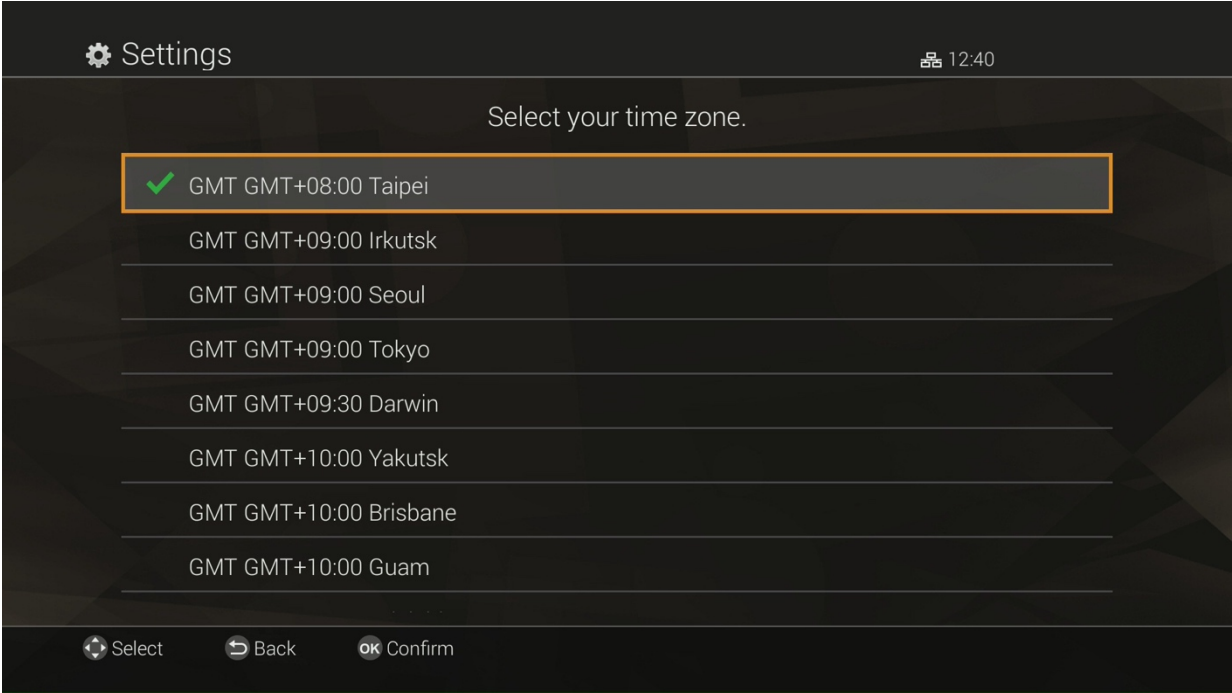


By default date and time are synchronized to CMS server with NTP protocol. This is the recommended settings to ensure correct execution of schedules.

To turn off automatic time setting, select “Off” in “Set Automatically”.



Select your time zone.

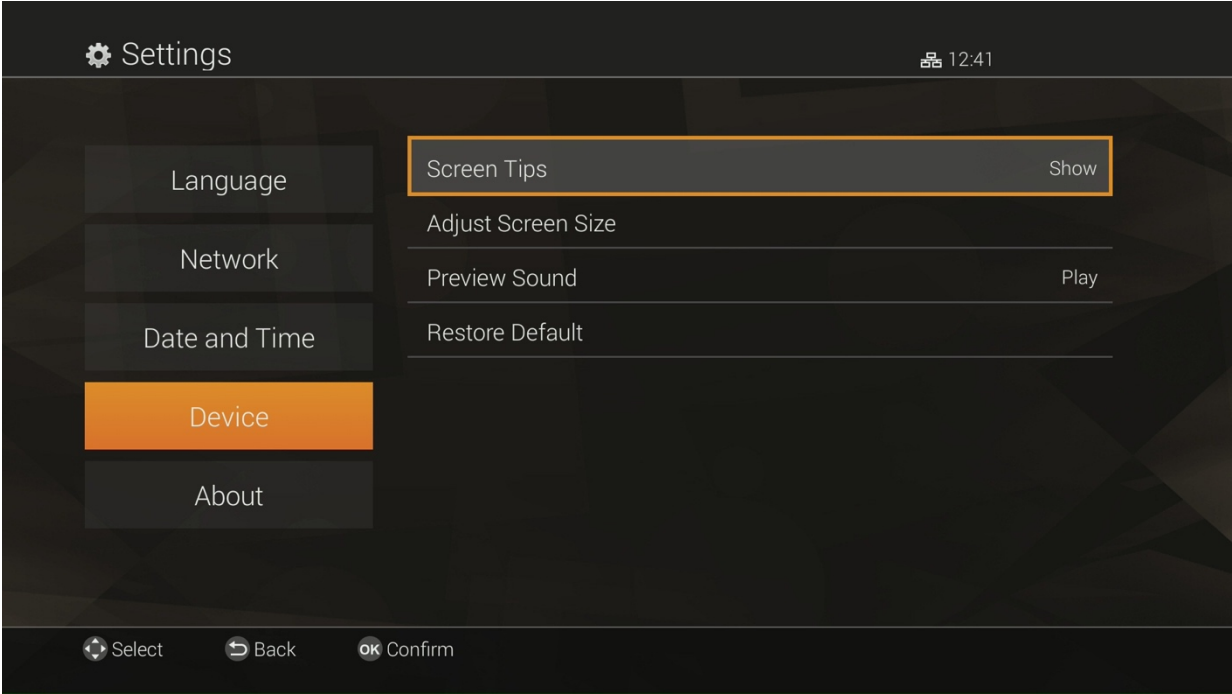


Manually adjust the date and time.



Device

Screen tips hints for the operations of remote controller.

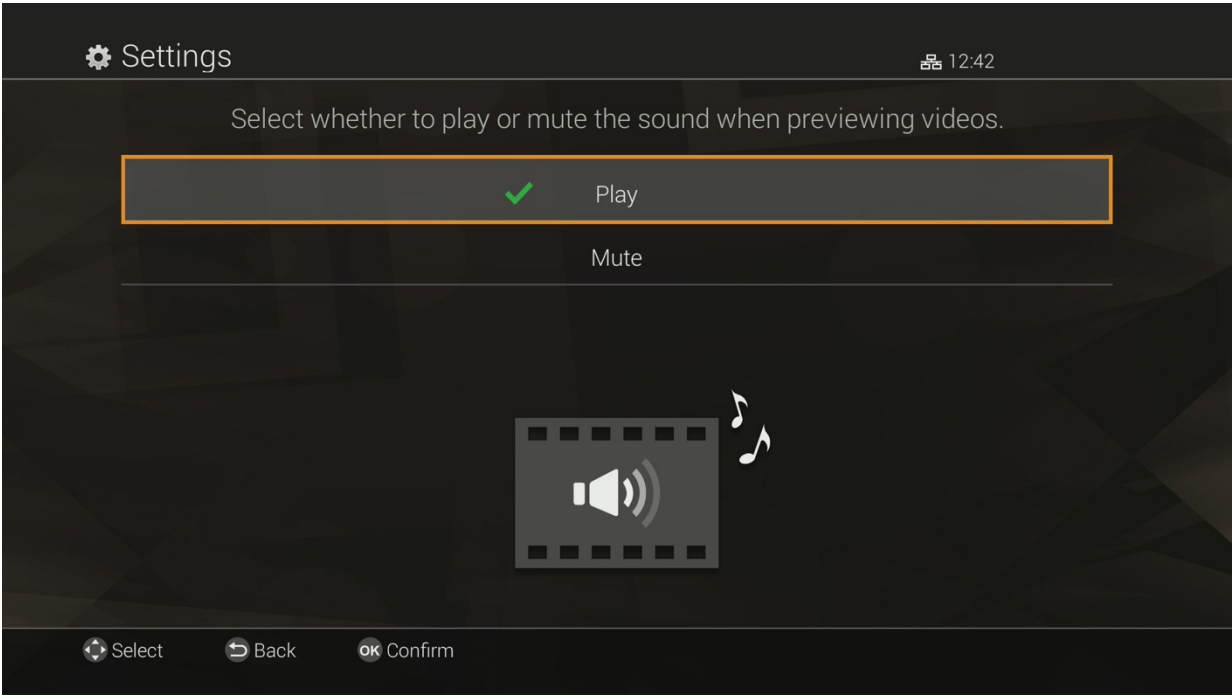


“Adjust Screen Size” is the same in the first-setup. Adjust on a per-monitor basis so that your content is displayed correctly on the monitor.

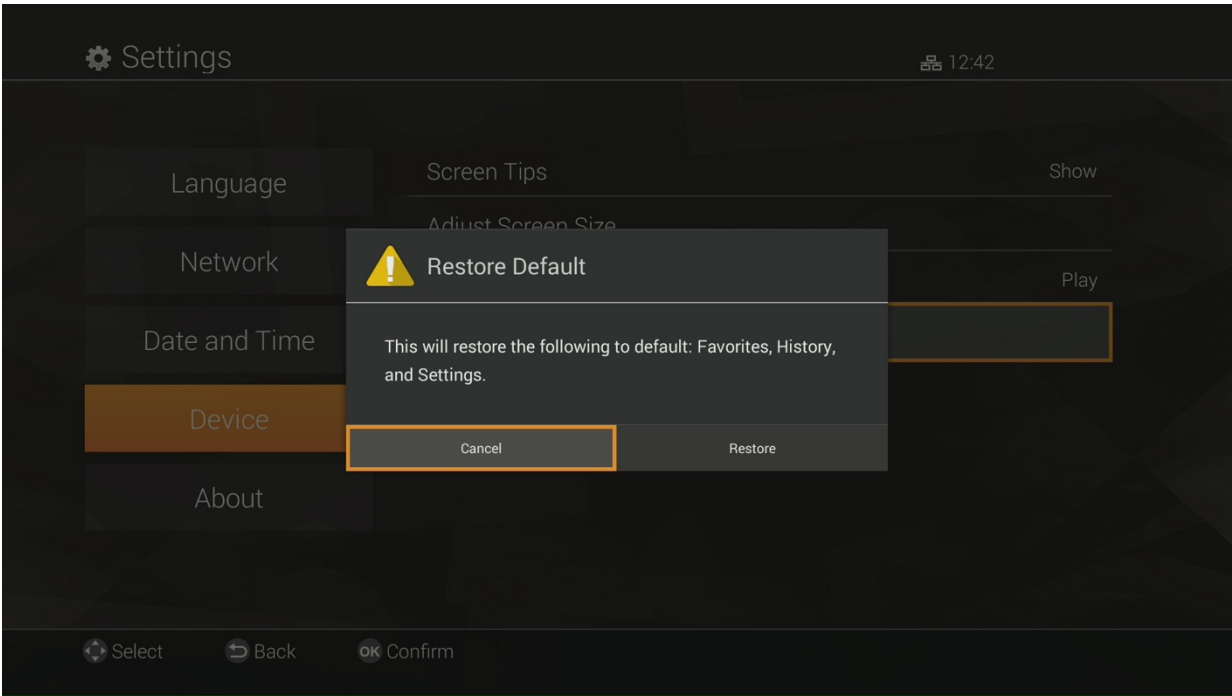


In the main screen of Video-on-Demand, when a video is selected (circled in yellow brackets), the video will starts to play in preview mode. If “Preview Sound” is turn off, this preview video will not

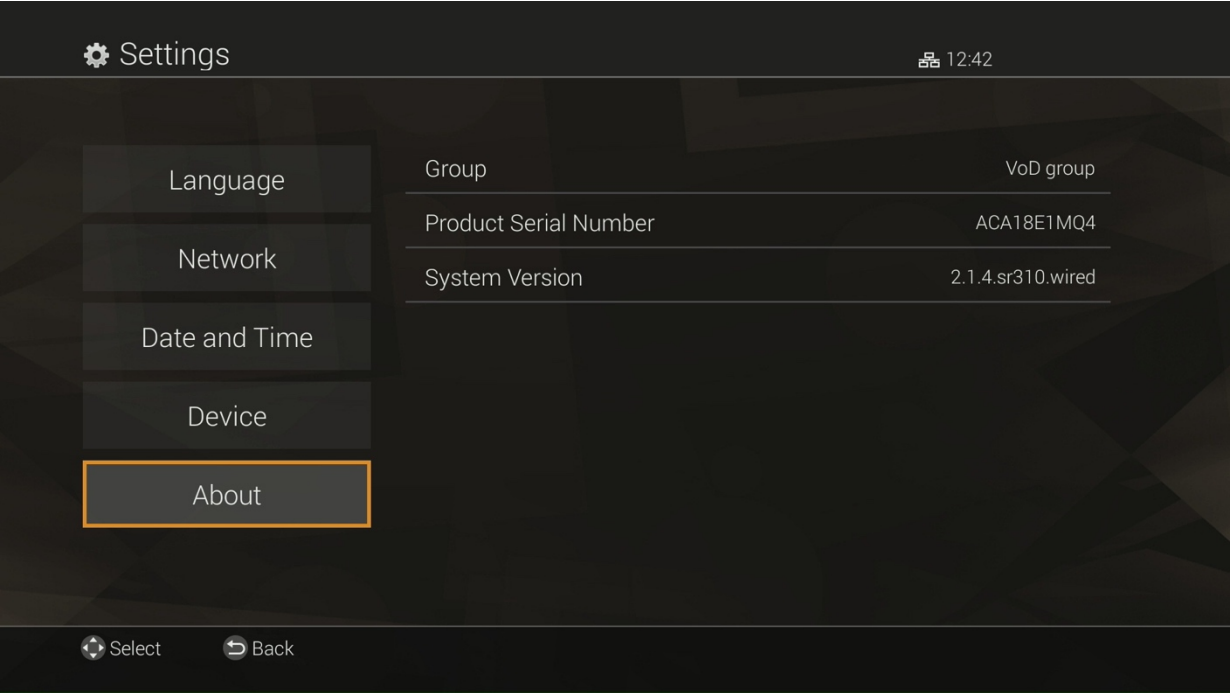
have its audio rendered.



“Restore Default” will wipe out all settings and restore back to factory default.

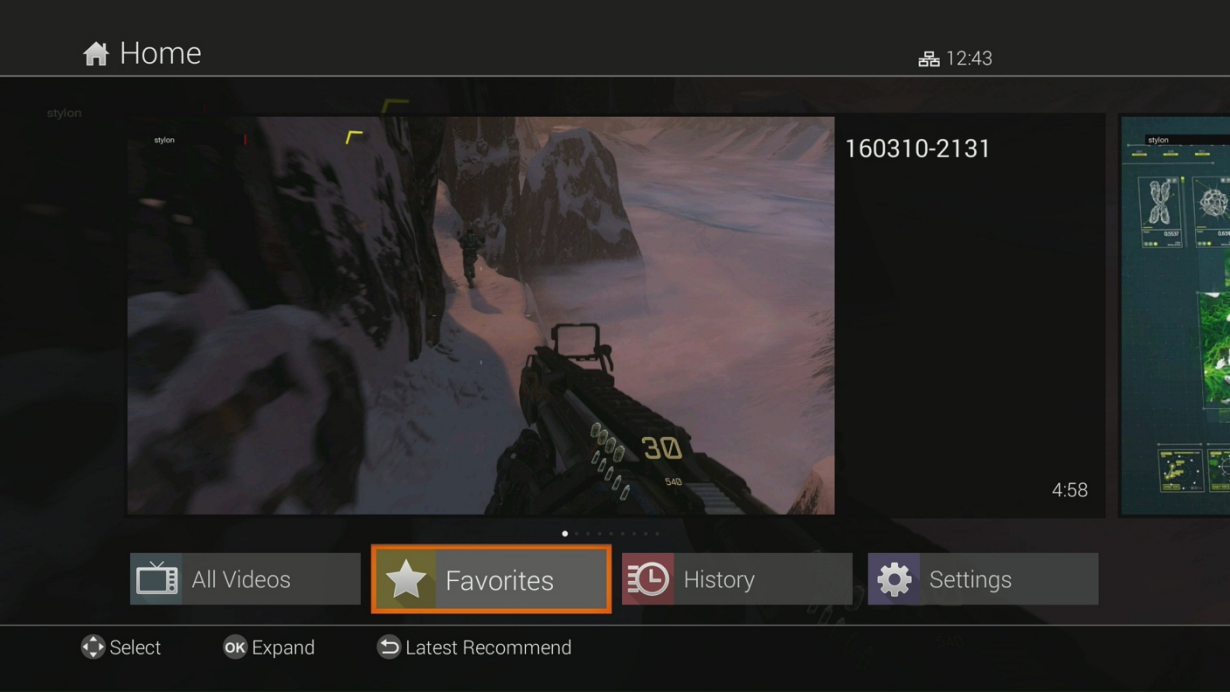


“About” shows information about this receiver.



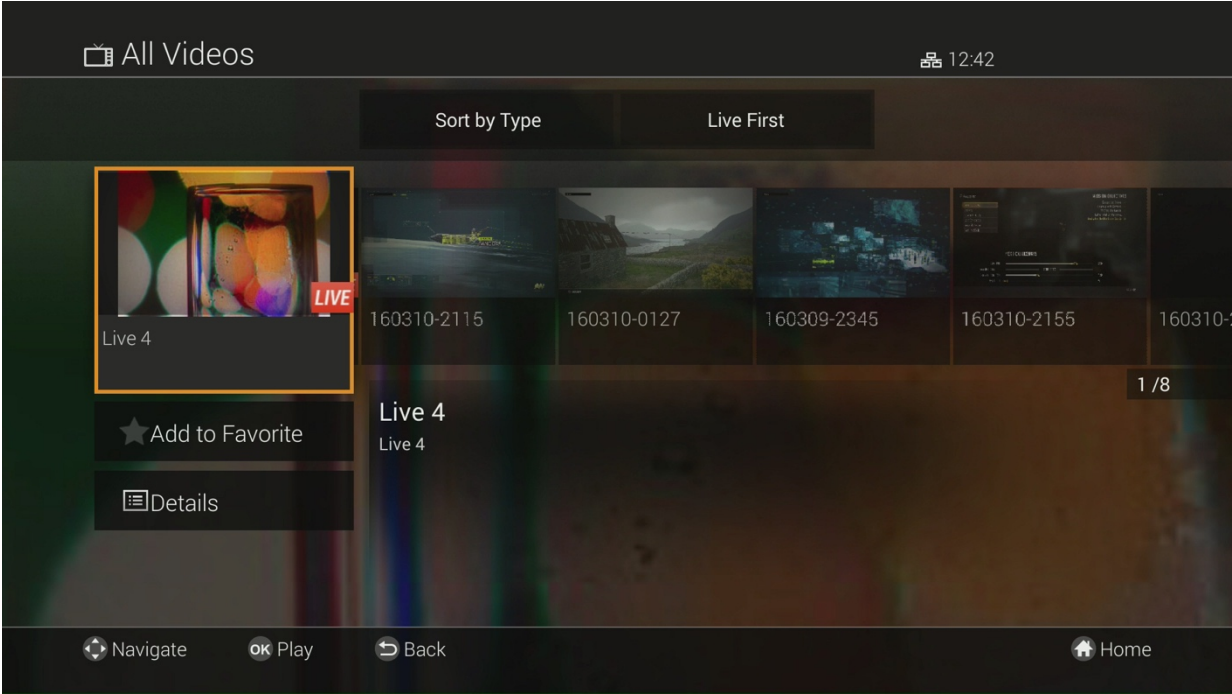
Watching on-demand videos

In the main screen, navigate using arrow and OK keys to select video to watch. The title and length of video is displayed on the right of preview window.

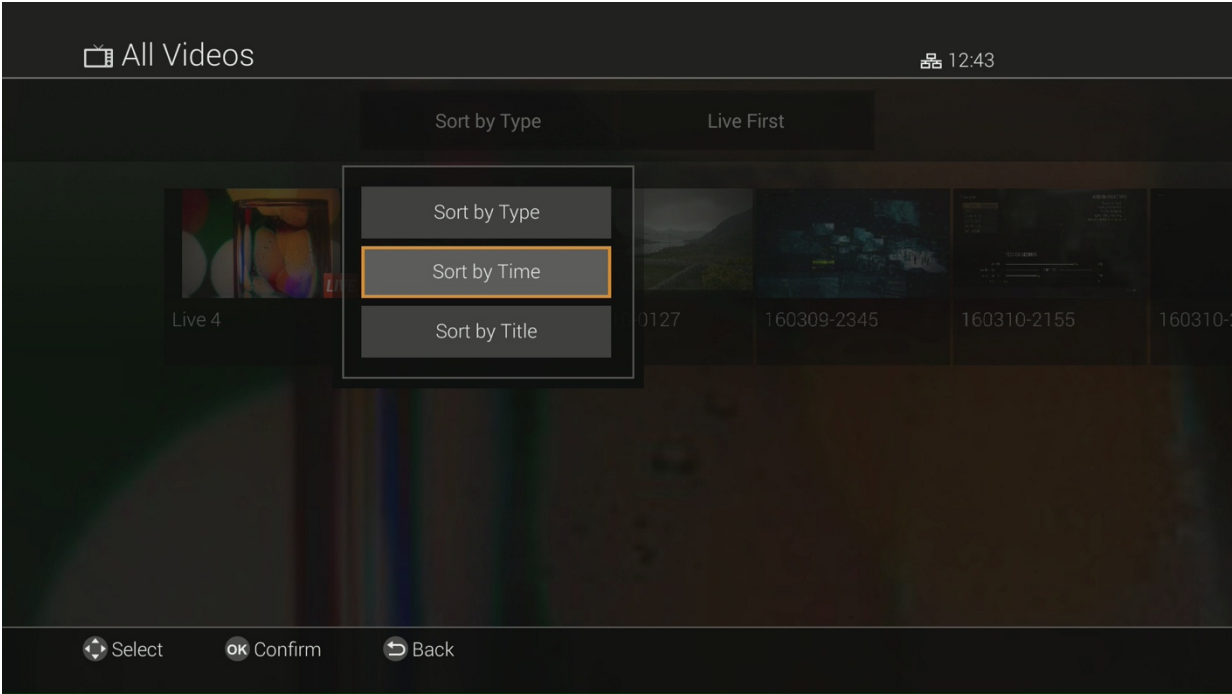


All Videos

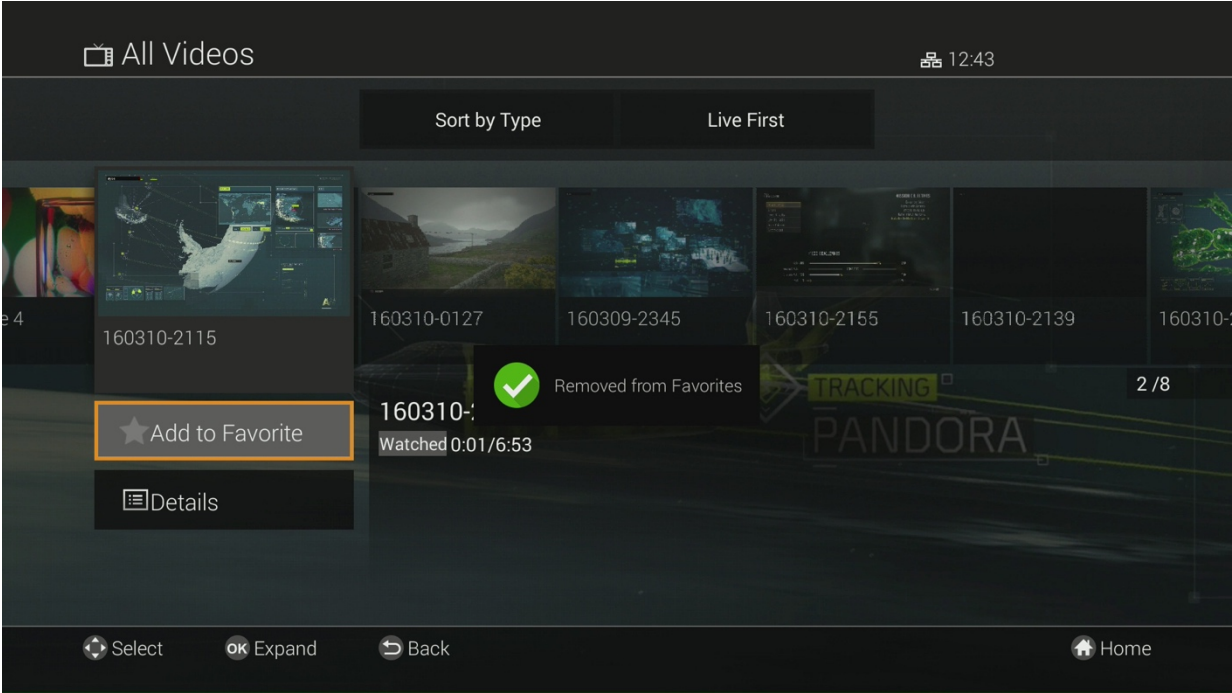
This page let you sort videos and select for playback.



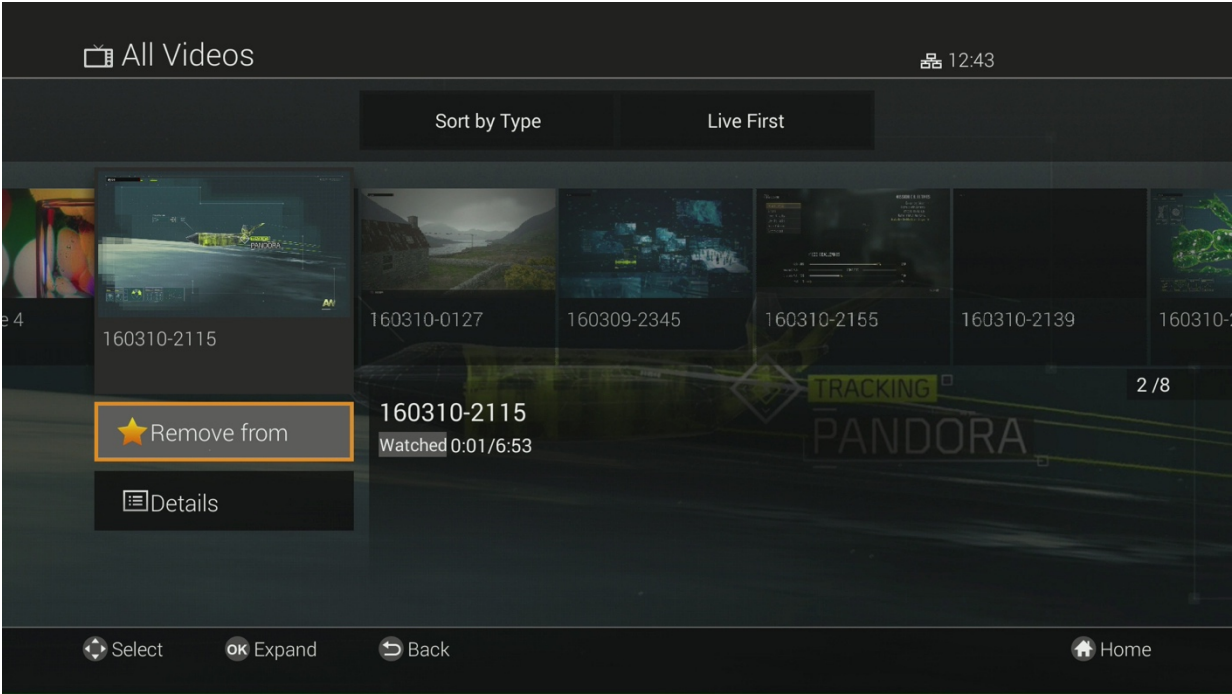
Sorting can be made based on type (live or VoD), time or title.



Adding a video to the favorite list.



Remove a video from the favorite list.



Managing AVerReceiver

Manage AVerReceivers

AVerReceivers can be monitored and assigned tasks to run at the management page.

AVerMedia CMS admin

Manage Firmwares

Content Management
Live Channel
Video on Demand
Digital Signage
Category
Playback Device
AVerReceiver

Serial Number Model Description Last Signed in Group Status Action

ACA18E1MQ4	SR310		2016-03-22 15:37:35	Signage group	●	
KIOBEIJZVP	SR310		2016-03-17 16:23:34	company	●	

Page 1 20 items per page 2 Total items:

After AVerReceivers are set up to connect to CMS, they appear in the receiver list. These receivers are assigned to “default” group, meaning they do not belong to any group yet.

You can either assign the receiver to any of the groups and manage them by groups. Or you can simply assign the receiver to either one of “Video on Demand” or “Digital Signage” mode.

In the “Digital Signage” mode, a template or schedule can be assigned to the receiver for immediate execution. This is especially useful in the case of few numbers of AVerReceivers. If the receivers are large in number and deployed across floors and buildings, assignment by groups is more manageable.

Example: AVerReceiver not yet assigned to any group

AVerMedia CMS

Content Management
Live Channel
Video on Demand
Digital Signage
Category
Playback Device
AVerReceiver
Group
Schedule
Streaming Encoder
Encoder
Settings
Weather Location
Emergency Bulletin
Database
Timezone

Hard Disk Space : 100 GB

Serial Number
ACA18E1MQ4

Description

Group
Default

Device Mode
☒ Video on Demand
☐ Digital Signage

Playback Schedule
☒ Digital Signage
DST_Education
☐ Schedule
Restaurant_1F

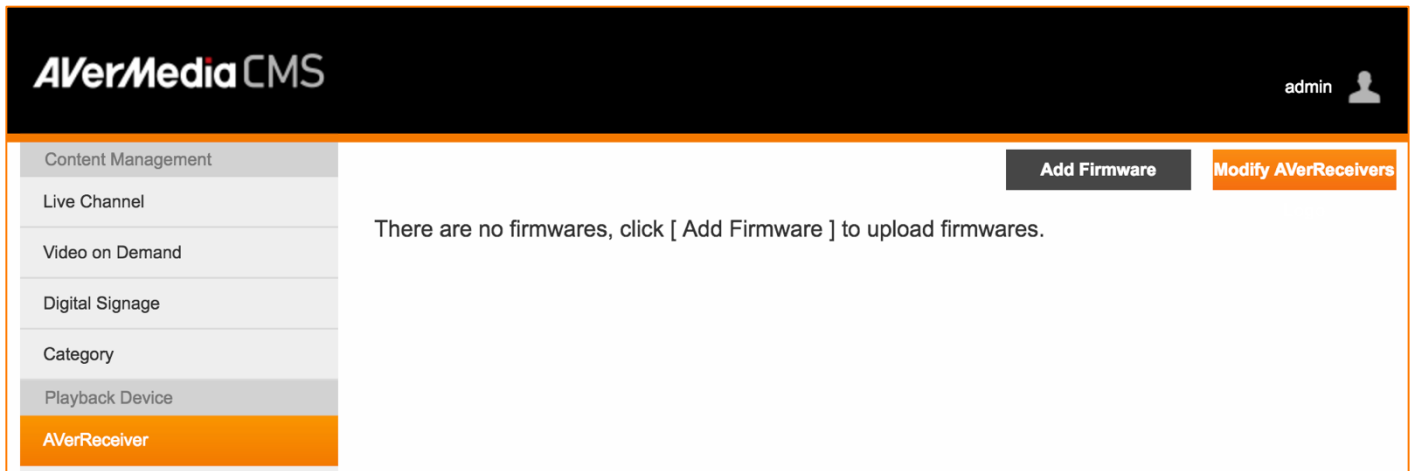
Lock Screen
Unlock Screen

OK
Cancel

Manage Firmware and Change Boot Logo

Click on the “Manage Firmwares” in the upper right corner to manage firmware and change boot logo.

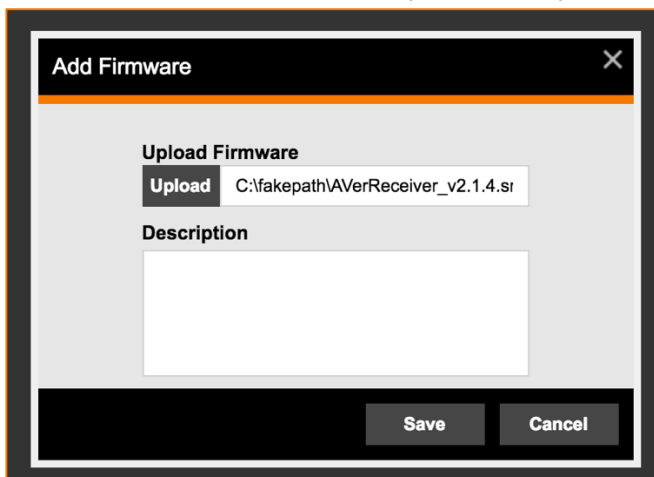
Click on “Modify AVerReceivers” to upload and change the boot logo of all managed AVerReceivers.



Open and upload a JPEG image with resolution not larger than 1920x1080 pixels.



Click on “Add Firmware” to upload an updated firmware



Managing Video On Demand

Video on demand service allows upload of MP4 videos and assign to different groups of AVerReceivers for watching.

Managing MP4 video

Click on the “Video on Demand” on the left panel to access the list of video currently managed by CMS. Here you can preview, modify the descriptions or delete the video.

List of MP4 video:

The screenshot shows the AVerMedia CMS interface. The top navigation bar includes the AVerMedia CMS logo, the user 'admin', and a search bar. The sidebar on the left contains the following menu items: Content Management, Live Channel, Video on Demand (highlighted), Digital Signage, Category, Playback Device, AVerReceiver, Group, Schedule, Streaming Encoder, Encoder, Settings, Weather Location, Emergency Bulletin, Database, and Timezone. The main content area displays a table of MP4 videos. The table has columns for Thumbnail, Video Name, Description, Views, Status, and Action. There are 7 videos listed, each with a checkbox, a thumbnail, a video name, a description, 0 views, and a status of 'On'. The bottom of the interface shows a hard disk space status of 102 GB and pagination controls for page 1 of 7 items.

Thumbnail	Video Name	Description	Views	Status	Action
	160310-2131		0	On	
	160310-2137		0	On	
	160310-2139		0	On	
	160310-2155		0	On	
	160309-2345		0	On	
	160310-0127		0	On	
	160310-2115		0	On	

Click on the edit icon to preview video and modify the information:

AVerMediaCMS

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

AVerReceiver

Group

Schedule

Streaming Encoder

Encoder

Settings


Weather Location

Emergency Bulletin

Database

Timezone

Hard Disk Space : 100 GB



Thumbnail

Upload

<http://10.1.9.112:80/uploads/img/16.png>

Duration:(hh:mm:ss)

00

:

01

:

36

Title

160310-2233

Upload MP4 video

Click the “Add Video on Demand” in the upper right of screen to access the upload function.

Upload Single Video

You can select 1 video for upload and meanwhile edit the title, descriptions, thumbnail, categories and assign to groups.

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

AVerReceiver

Group

Schedule

Streaming Encoder

Encoder

Settings

Weather Location

Emergency Bulletin

Database

Timezone

Hard Disk Space : 102 GB

Select 1 Video

Select Multiple Videos

Enter Filename

Filename

Drag here to upload

Thumbnail

Upload

Title

Default title for the film name, re-edit To modify page modify

Description

Primary Category

None

Subcategory

Default

Group

☐ company

☐ VoD group

☐ Empty signage

☐ Signage group

Add

After file is selected, uploading automatically starts:

Upload Multiple Videos

To upload multiple videos at once, use “Select Multiple Videos”:

You cannot edit the title or other information when uploading multiple videos. Please go back to video listings to select one of them for editing of information.

To start upload, drag video files from file explorer or finder to the area marked as “Drag here to upload”. Upload will automatically start.

The screenshot displays the VueSign CMS interface. On the left is a sidebar menu with options: Content Management, Live Channel, Video on Demand (highlighted), Digital Signage, Category, Playback Device, AVerReceiver, Group, Schedule, Streaming Encoder, Encoder, Settings, Weather Location, Emergency Bulletin, Database, and Timezone. At the bottom of the sidebar, it shows 'Hard Disk Space 101 GB'. The main content area has a top bar with 'No file chosen' and the 'dia CMS' logo. Below this are three buttons: 'Select 1 Video', 'Select Multiple Videos' (highlighted in orange), and 'Enter Filename'. A large dashed orange box contains the text 'Drag here to upload'. Below this box is a table showing three video upload entries:

160310-2247.mp4	<div><div></div></div> 57%	Cancel
160310-2235.mp4	<div><div></div></div>	Cancel
160310-2233.mp4	<div><div></div></div>	Cancel

At the bottom of the main area is a button labeled 'Return to Video on Demand List'.

Please note that AVerReceivers can only view videos in the same group. It is recommended to plan ahead and assign the videos and AVerReceivers into individual groups.

Managing Digital Signage

VueSign Digital Signage comes with built-in templates for retail store, education and enterprise scenarios. You can also make your own customized template. These templates can be directly assigned to specified AVerReceiver or a group of AVerReceivers for presentation. Schedule can

also be arranged so tasks will be presented in specific order or at specified time.

The screenshot shows the AVerMedia CMS interface. On the left is a sidebar with navigation options: Content Management, Live Channel, Video on Demand (highlighted), Digital Signage (highlighted), Category, Playback Device, AVerReceiver, Group, and Schedule. The main area displays a table of templates under the 'Digital Signage' section. At the top right of the main area are buttons for 'Add Template' and 'Import Template'. Below these are pagination controls showing 'Page 1' and '20 items per page 3 Total items:'. The table has three columns: 'Delete', 'Template Name', and 'Action'. It lists three templates: 'DST_Store', 'DST_Education', and 'DST_Enterprise'. Each row has a checkbox in the 'Delete' column and icons in the 'Action' column. At the bottom right of the table area, there are more pagination controls showing 'Page 1' and '20 items per page 3 Total items:'.

Templates

Templates control how the actual layout on digital signage TV or panels are presented. The content themselves can be dynamic, such as those in HTML or RSS.


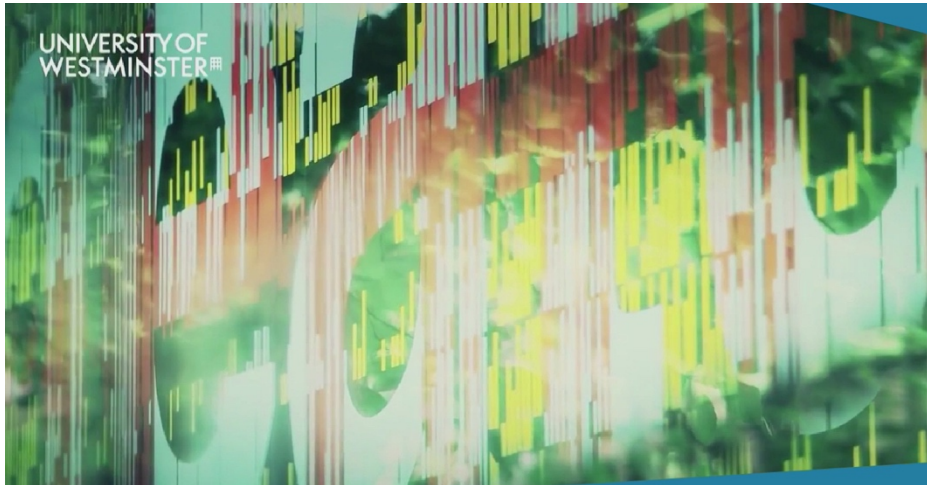
Built-in Templates

VueSign CMS has 3 built-in templates for education, enterprise and retail store applications. Feel free to make copies of them and modify according to your needs.

Template for retail store.

The screenshot shows a digital signage template for a retail store menu. It features two columns of food items. The left column is titled 'PIZZA DISHES' and lists 'APRICOT CHICKEN' (\$11,50), 'DOUBLE BACON' (\$10,69), and 'BBQ MEATLOVERS' (\$10,99). The right column is titled 'HOT DOG DISHES' and lists 'CHILI CHEESE HOT DOG' (\$3,69), 'CHICAGO HOT DOG' (\$4,29), and 'BACON BLEU HOT DOG' (\$4,59). Each item has a brief description. At the bottom, there is a footer with a date '2016/03/22' and some text about ranch dressing and cream of chicken.

Template for education.





Recent Events




8/10/2015 3:00 PM
Alumit Night Teachers with Students
Where - Blue Rocks Stadium

8/11/2015 2:00 PM
Women's Soccer vs Alumit Game
Where - Wilmington Del.

8/11/2015 4:00 PM
Men's Soccer vs Alumit Game - Will help other students play soccer
Where - Blue Rocks Stadium





Aoise State University

NEWS By going to one of the 7 primary or secondary schools located at the countryside in Taiwar **2016/03/22**


Template for enterprise.


About AVerMedia

Streaming Encoder/Server /Capture Cards / Game Zone


2016/03/22




Headquarter Office
No. 135, Jian 1st Rd.,
Zhonghe Dist., New Taipei City
23585, Taiwan



Contact Telephone
+886-2-2226-3630
(510) 403-0006



For Sales Enquiry
AVT.Sales@avermedia.com



Marketing Contact
AVT.PMK@avermedia.com

AVerMedia AVerMedia Technologies, Inc. is located in New Taipei City, Taiwan, listed on the stock mar

In a template you can add elements such as video player, slide show of pictures, time and date, text, HTML, RSS and weather forecast. Changing colors, font size, screen position and dimensions are applicable to all elements. We will introduce each of them one by one.

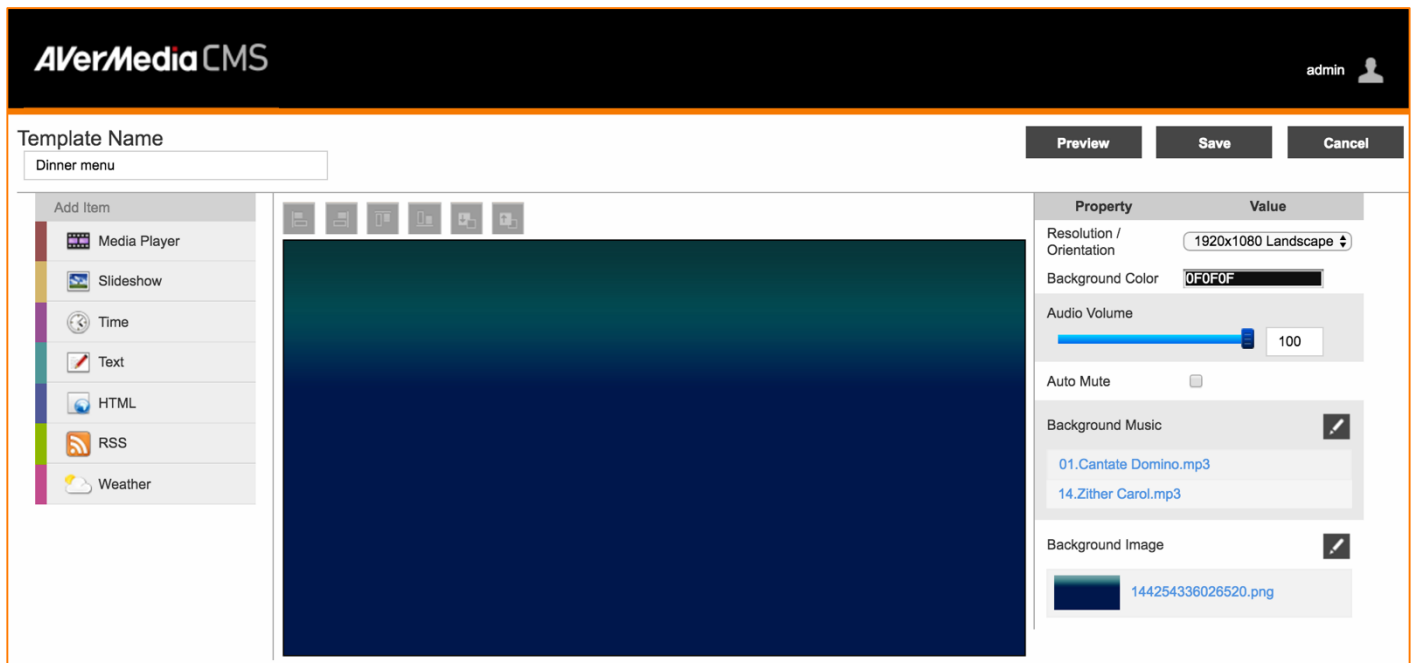
Basic template properties

Templates need to be assigned as landscape mode or portrait mode. It is strongly recommended to design 2 template, one in portrait mode and another in landscape mode, even if the content delivers the same message. This is because the layout requirements and restrictions are quite different between a landscape and portrait positioned screen.

Background color determines the color of the screen where there are no visual elements.

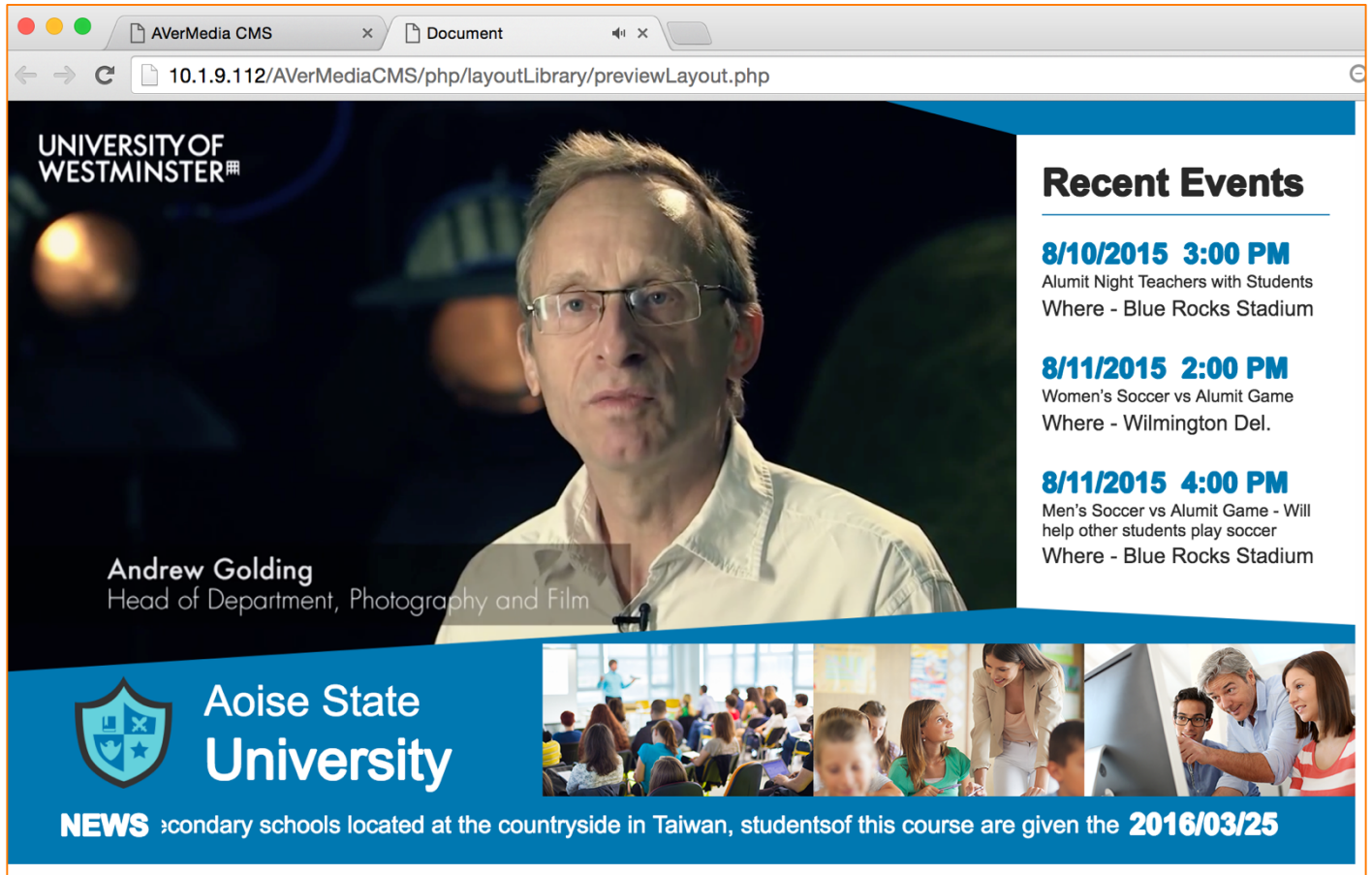
Auto-mute, when checked, mutes background audio when a media player starts to play.

Background music and image can be uploaded and assigned here for playback in the final presentation.



Preview

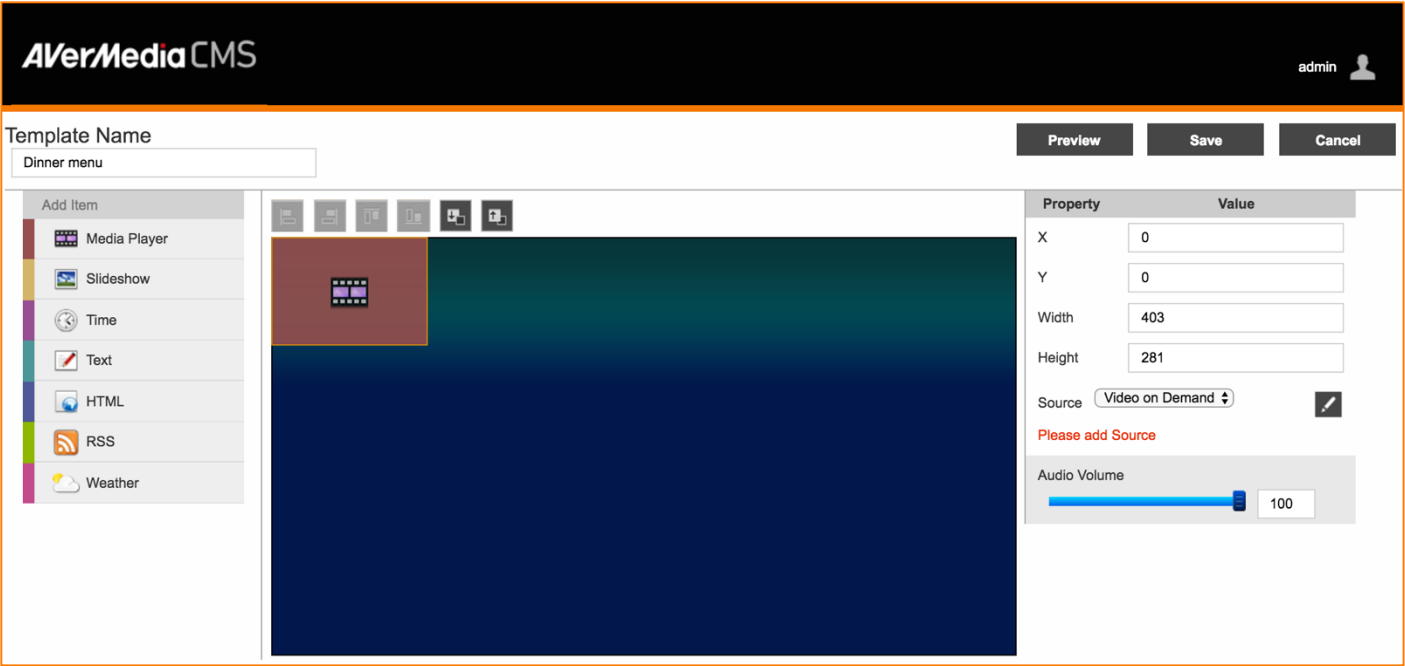
When editing the template, click “Preview” will bring out another browser tab, allowing you to see the final result of your layout work.



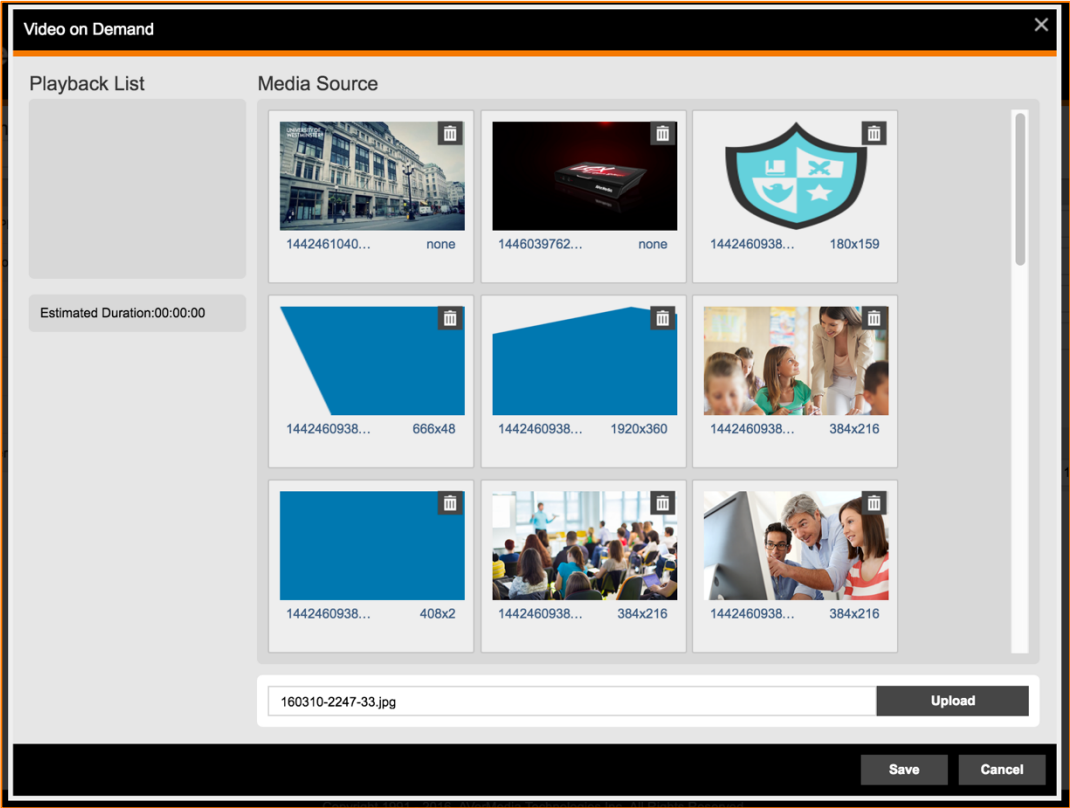
Media Player

Videos can be uploaded here and used as presentation materials in digital signage. The screen size and position of the media player can be adjusted by dragging the mouse or editing in the

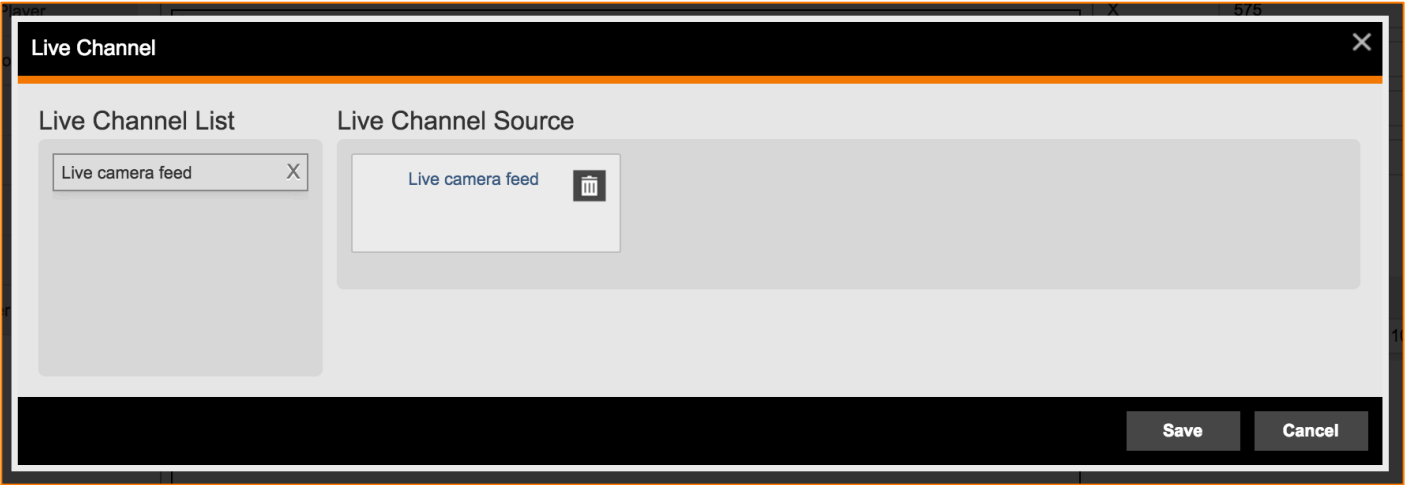
properties to the left.



Select “Video on Demand” in “Source” to upload and assign MP4 videos. You can drag multiple videos in the right part to the play list.

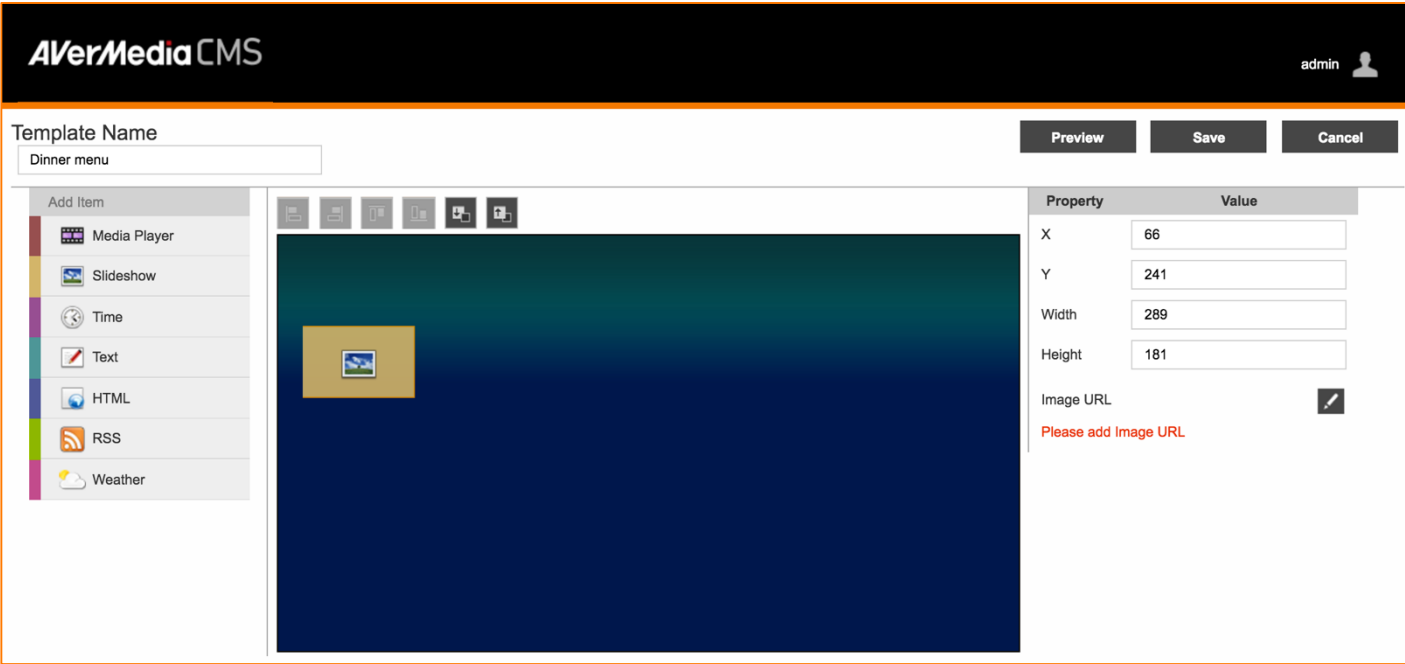


Select “Live Channel” in “Source” to select live channels for playback. Drag from channel sources and drop to live channel list.

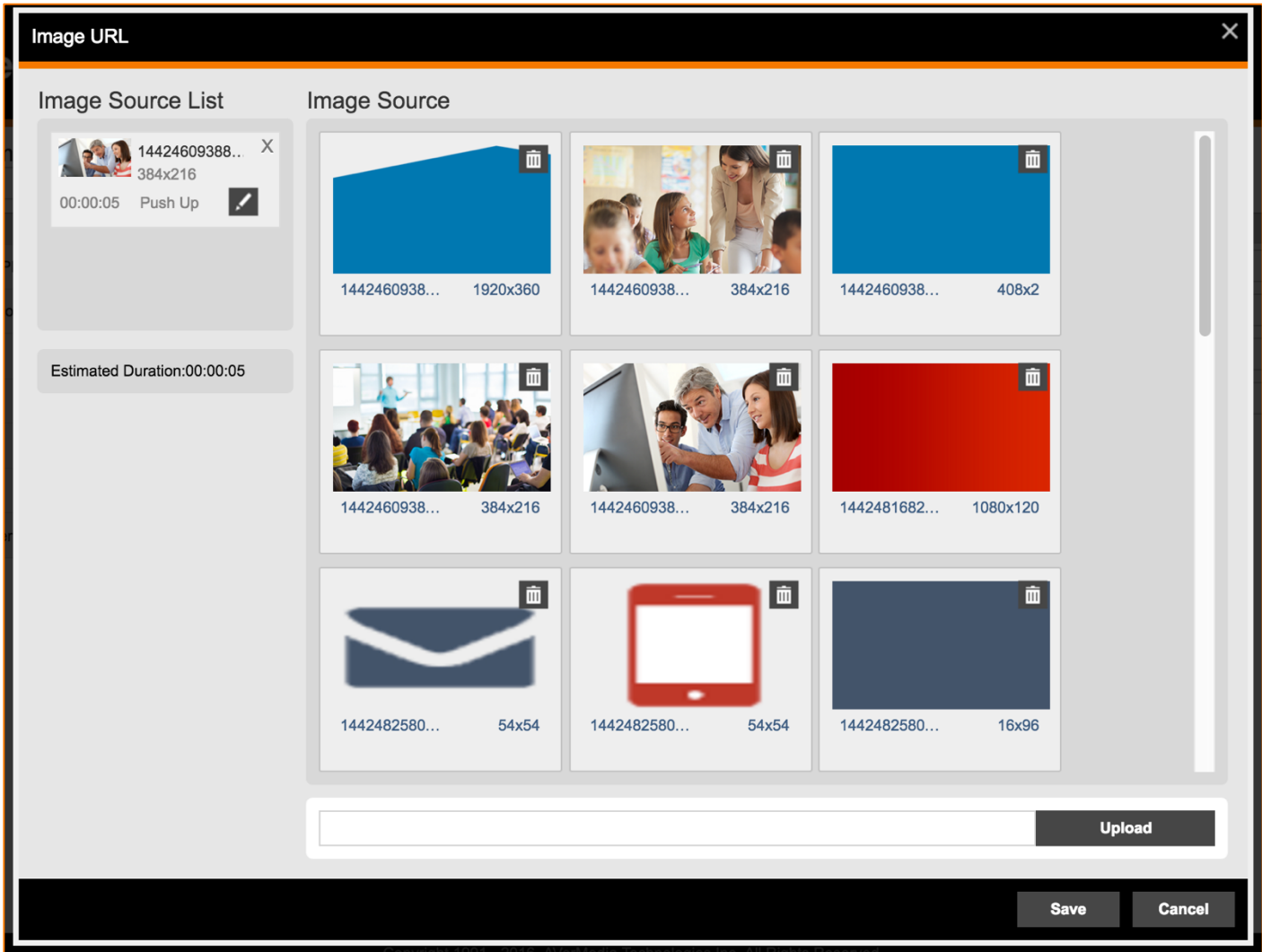


Slideshow

Images and pictures can be uploaded and arranged in a slide show with this element. Also the size and position of this element can be adjusted by dragging mouse or editing the properties to the right.



Uploading images to VeuSign CMS using the “Upload” button. Drag images from the right to the list on the left side to add to slideshow.



Time

Time element presents both date and time given enough screen space is allocated to this element. If space is too small, only time will be presented.

AVerMediaCMS

admin

Template Name

Film: Green Mile

Preview

Save

Cancel

Add Item

Media Player

Slideshow

Time

Text

HTML

RSS

Weather

Property	Value
X	334
Y	248
Width	289
Height	181
Font	Default
Font Size	20
Font Color	000000
Font Style	<input type="checkbox"/> Bold <input type="checkbox"/> Italic
Format	yyyy/mm/dd hh:mm:ss

Text

Text element presents simple text with static or marquee effect, which is good for revealing readable information.

AVerMediaCMS

admin

Template Name

Film: Green Mile

Preview

Save

Cancel

Add Item

Media Player

Slideshow

Time

Text

HTML

RSS

Weather

Please enter text

Property	Value
X	0
Y	0
Width	587
Height	181
Font	Default
Font Size	40
Font Color	000000
Font Style	<input type="checkbox"/> Bold <input type="checkbox"/> Italic
Marquee	<input type="checkbox"/>
Text	<div>Please enter text</div>
Alignment	Default

HTML

HTML elements embed web pages from other web site into the signage template. Please note that many news and video portals prohibit the embedding of their pages, in which case a blank area will

be presented instead of the correct page.

AVerMediaCMS

admin

Template Name

Film: Green Mile

Preview

Save

Cancel

Add Item

Media Player

Slideshow

Time

Text

HTML

RSS

Weather

Property	Value
X	665
Y	359
Width	289
Height	181
URL	<div>enter a valid URL</div>

RSS

RSS elements collects information and news feeds from RSS web pages and presents on AVerReceivers. Please enter a valid RSS URL starting with “[HTTP://](#)”.

AVerMediaCMS

admin

Template Name

test

Preview

Save

Cancel

Add Item

Media Player

Slideshow

Time

Text

HTML

RSS

Weather

Property	Value
X	650
Y	314
Width	289
Height	181
URL	<div>http://feeds.reuters.com/reu/</div>
Title	<div><input type="checkbox"/> Enable</div>
Description	<div><input type="checkbox"/> Enable</div>
Link	<div><input type="checkbox"/> Enable</div>
Image	<div><input type="checkbox"/> Enable</div>

Weather

Weather elements reports current weather condition and forecasts based on the city selected in the “Weather location” in the “Settings” page. There are two different styles of template to choose from.

AVerMediaCMS

admin

Template Name

Film: Green Mile

PreviewSaveCancel

Add Item

- MediaPlayer
- Slideshow
- Time
- Text
- HTML
- RSS
- Weather

PropertyValue

X741

Y350

Width250

Height251

Weather Templatetemplate1

To set up weather reports, you must first visit <http://openweathermap.org/> to sign up and obtain your own API key. Then enter the API key and the name of the city in the “Weather Location”

AVerMedia CMS

- Content Management
- Live Channel
- Video on Demand**
- Digital Signage
- Category
- Playback Device
- AVerReceiver
- Group
- Schedule
- Streaming Encoder
- Encoder
- Settings
- Weather Location**

Manually Set Location

OpenWeatherMap

Get an API key first by signing up on [OpenWeatherMap](http://openweathermap.org/) website.

API Key

Enter your city

OK

page.

Offline Digital Signage with Exported Templates

Press the “Export” icon to export signage templates to a ZIP file. Placing this ZIP file into the SD card to turn AVerReceiver into a standalone player without the need for network connections and CMS server. Please note that AVerReceiver must not be connected to CMS service in order to work in offline mode.

Add Template **Import Template**

Page 1 20 items per page 3 Total items:

Delete	Template Name	Action
<input type="checkbox"/>	DST_Store	
<input type="checkbox"/>	DST_Education	Export
<input type="checkbox"/>	DST_Enterprise	

Page 1 20 items per page 3 Total items:

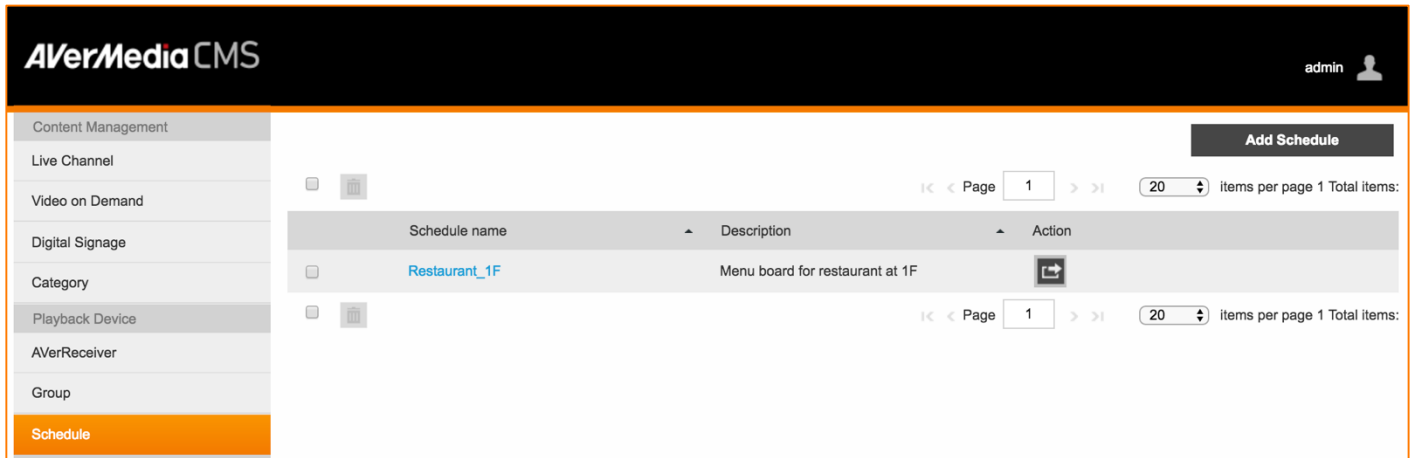
Importing Templates

You can copy the templates from one CMS server to another by simply importing the exported templates. Just click on the “Import Template” and select the exported ZIP file.

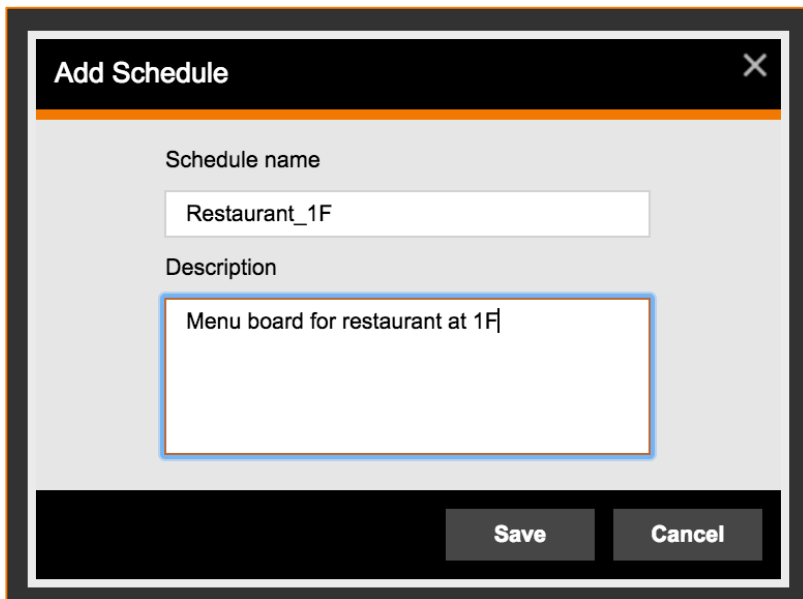
Schedules and Tasks

A Task is the single entity with only one template to execute. By combining multiple tasks into a schedule and arrange the order and time to run the tasks, we can create many combinations in a very flexible way.

To create a new schedule, first click “Add Schedule” in the “Schedule” page.



Edit the name and descriptions of the schedule, and continue to the task list page.



Click “Add Task” to proceed to the task page.

AVerMediaCMS

admin

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

AVerReceiver

Group

Schedule

Add Task

There are no Tasks at the moment. Click [Add Task] to add Tasks

Sequential Tasks

A task in “Sequential Playback” mode will repeat the template for the specified times.

AVerMediaCMS

admin

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

AVerReceiver

Group

Schedule

Streaming Encoder

Play Mode

Sequential Playback

Digital Signage

Lunch menu

Repeat

1

Times

OK

Cancel

Please note that the presentation time of any task is determined by the longest presentation time of the following elements: media player, slide show, text with marquee effect. A template without any of these elements is run continuously when assigned to a task. This forever-running task will only be stopped if another task in “Scheduling Playback” mode is kicked off.

A schedule with multiple tasks in “Sequential Playback” mode will execute all these tasks in the order specified.

AVerMediaCMS

admin

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

AVerReceiver

Group

Schedule

<< Page 1 >>

20 items per page 3 Total items:

	Type	Start Time	Digital Signage	Action
<input type="checkbox"/>	Daily		Film: Hulk	DOWN
<input type="checkbox"/>	Daily		Film: Bridge of Spy	UP DOWN
<input type="checkbox"/>	Daily		Film: Green Mile	UP

Scheduling Tasks

A task in “Scheduling Playback” mode is scheduled to kick off at a certain time of day.

AVerMedia CMS

Content Management

- Live Channel
- Video on Demand
- Digital Signage
- Category
- Playback Device
- AVerReceiver
- Group
- Schedule**
- Streaming Encoder
- Encoder
- Settings
- Weather Location
- Emergency Bulletin
- Database
- Timezone

Hard Disk Space : 100 GB

Play Mode
Scheduling Playback

Digital Signage
Dinner menu

Start Time
04:00:00 PM

End Time
09:00:00 PM

Repeat 1 Times

Play Frequency
☒ Daily Every 1 Day
☐ Weekly
☐ Monthly

Play Time
Start Date 2016-3-23
☒ No end date
☐ End Date

OK **Cancel**

You either specify the exact time to end this schedule in “End Time”, or use “Repeat N Times” to force this task to finish after executed for a number of loops.

Please note that the presentation time of any task is determined by the longest presentation time of the following elements: media player, slide show, text with marquee effect. A template without any of these elements is run continuously when assigned to a task. This forever-running task will only be stopped if another task also in “Scheduling Playback” mode is kicked off.

Scheduled tasks are run daily by default.

Schedule can also run weekly on the specified day of week.

AVerMedia CMS

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

AVerReceiver

Group

Schedule

Streaming Encoder

Encoder

Settings

Weather Location

Emergency Bulletin

Database

Timezone

Hard Disk Space : 415 GB

Play Mode

Schedule Playback

Digital Signage

DST_Education

Start Time

05:16:42 PM

End Time

05:16:42 PM

Repeat

1

Times

Play Frequency

☐ Daily

Every

1

 Week

☒ Weekly

☐ Monday
 ☐ Tuesday
 ☐ Wednesday
 ☐ Thursday
 ☐ Friday
 ☐ Saturday
 ☐ Sunday

☐ Monthly

Play Time

Start Date

2016-3-28

☒ No end date

☐ End Date

OK

Cancel

Or run monthly on a specified day of month. This following example schedules task to run on the 3rd day of each month.

AVerMedia CMS

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

AVerReceiver

Group

Schedule

Streaming Encoder

Encoder

Settings

Weather Location

Emergency Bulletin

Database

Timezone

Hard Disk Space : 415 GB

Play Mode

Schedule Playback

Digital Signage

DST_Education

Start Time

05:16:42 PM

End Time

05:16:42 PM

Repeat

1

Times

Play Frequency

☐ Daily
 ☒ Every

1

Month

3

Day

☐ Weekly
 ☒ Monthly

Play Time

Start Date

2016-03-28

☒ No end date
 ☐ End Date

OK

Cancel

Mixing Sequential and Scheduling Tasks

A sequential task when interrupted by a scheduling task, will resume its execution after the scheduling task has ended. In this case, you can think of the scheduling task as an emergency announcement.

Over-night Scheduling Task

To schedule an over-night task, please setup one schedule before mid-night (e.g. 10:00:00PM~11:59:59PM) and another schedule after mid-night (e.g. 12:00:00AM~02:00:00AM).

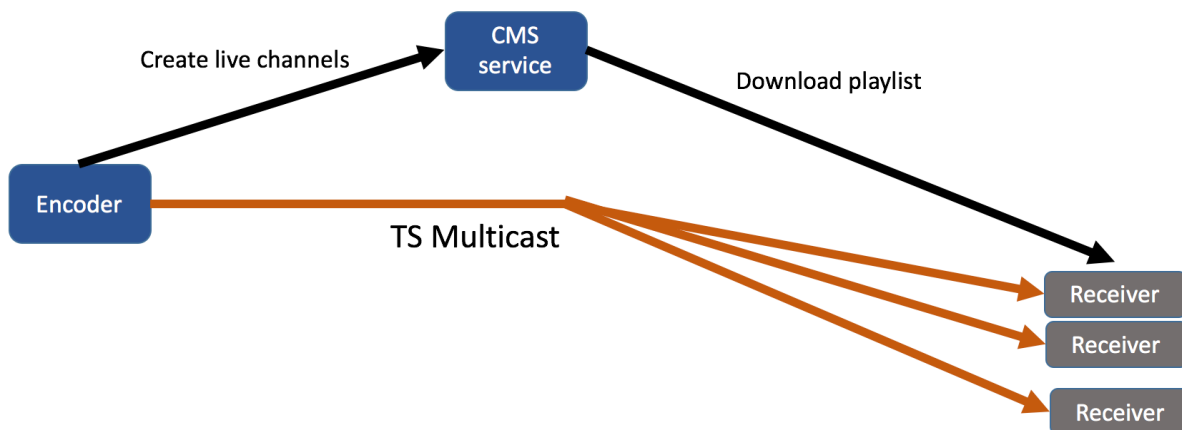
Live Channel and Encoder

First we explain what can be done from the encoder perspective and receiver perspective. And also list the combinations of streaming protocols.

The purpose of connecting encoders to VueSign CMS is for easier management of live channels. With AVerCaster encoders, live channels will be automatically created on CMS when streaming task is started. With other-brand encoders, we support manually adding live channels so that receivers can still benefit from live streaming with your existing encoders.

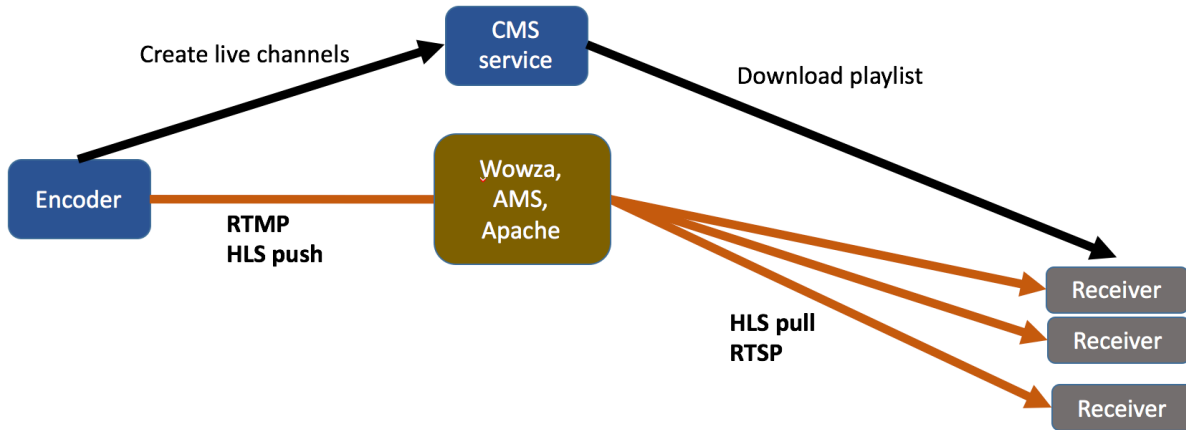
Grouping of live channels and receivers provide another level of controlling the distribution of live video content.

For Intranet deployment without content distribution networks or servers, TS multicast is recommended for live streaming with VueSign CMS solution. Network switches must properly support IGMP to make efficient use of the bandwidth.



Larger deployment across geographical regions often requires content distribution networks (CDN) or servers. From the encoder side, RTMP publish or HLS push is recommended. CDN is responsible for transforming the ingress stream to RTSP or HLS pull format, which are two

protocols supported by receivers.



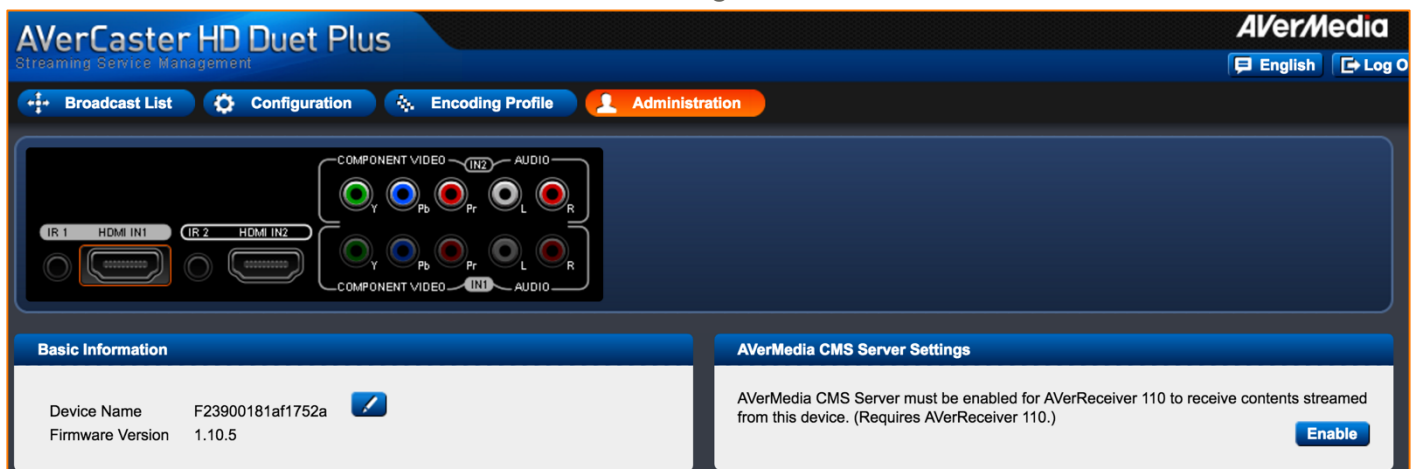
AVerCaster Series Encoders

AVerCaster Lite, Pro and Premium series encoders all support AVerMedia VueSign CMS. When an AVerCaster encoder is connected to VueSign CMS server, the live streaming channels will automatically report to CMS. This eases management and integration efforts.

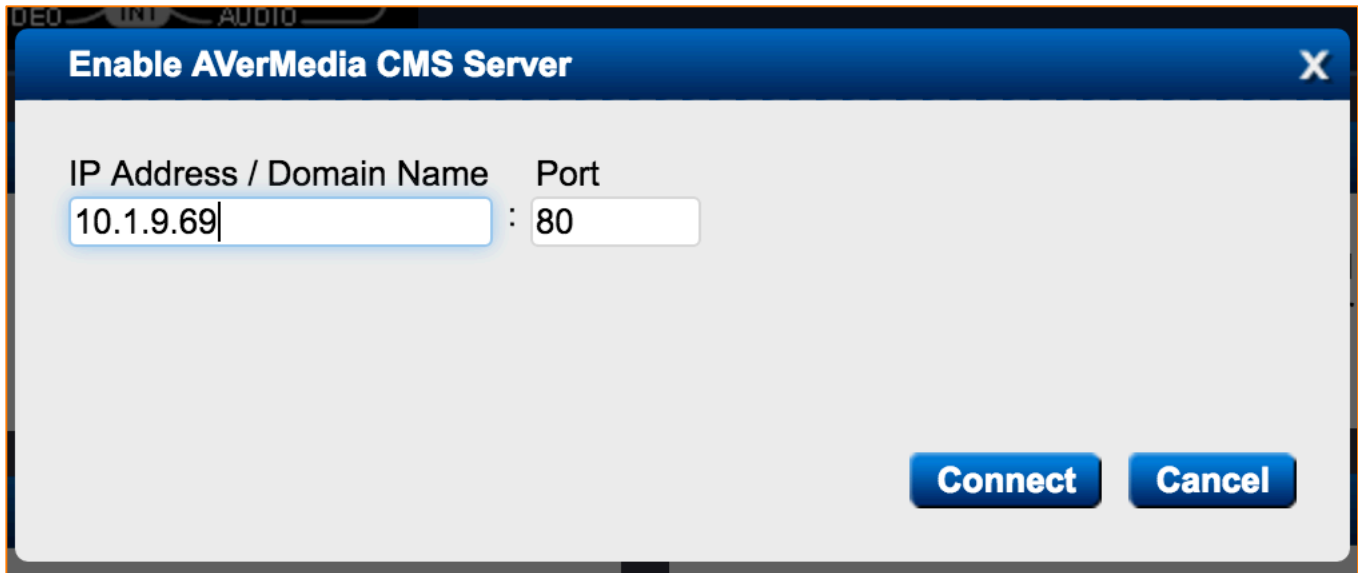
AVerCaster HD Duet Plus (F239+) and AVerCaster Pro/Premium

The procedure is mostly the same as in F239+ and AVerCaster Pro/Premium. So this section applies to both models.

Use browser to connect to web management of F239+ and proceed to the “Administration” tab. Press “Enable” on “AVerMedia CMS Server Settings”.



Enter the IP address and port of CMS server.



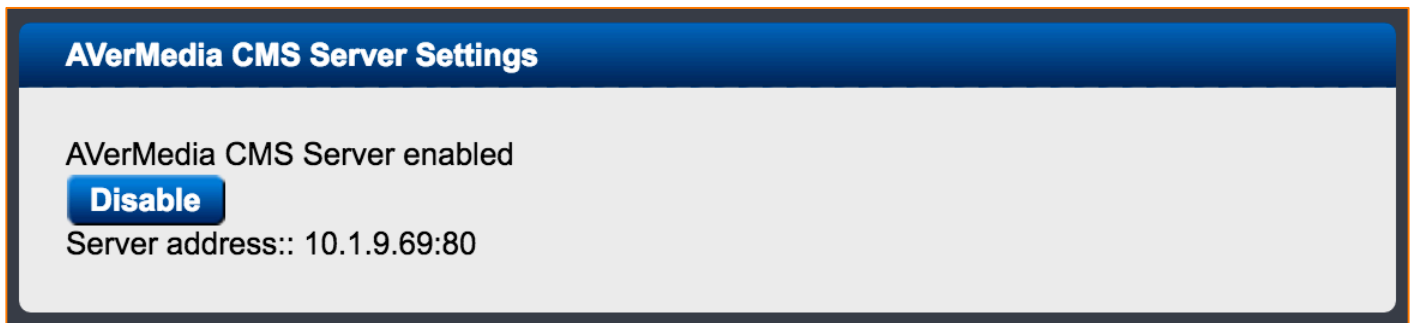
Enable AVerMedia CMS Server X

IP Address / Domain Name : Port

10.1.9.69 : 80

Connect **Cancel**

After connection is established, “Administration” tab will show that connection to CMS server is enabled like this:



AVerMedia CMS Server Settings

AVerMedia CMS Server enabled

Disable

Server address:: 10.1.9.69:80

In the “Encoder” page on CMS, the online/offline status of F239+ will be reflected accordingly.

AVerMedia CMS admin

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

AVerReceiver

Group

Schedule

Streaming Encoder

Encoder

Serial Number Device Name IP Status Action

1307945300015 F23900181af1752a 10.1.9.72 Online

When setting up streaming, select “AVerMedia CMS-UDP (Multicast)”. The rest of the settings are the same as “TS Multicast”.

AVerCaster HD Duet Plus Streaming Service Management

English Log Out

Broadcast List Configuration Encoding Profile Administration

Input Port 1-1 HDMI Signal Status : Stop Streaming

Audio Input ☒ HDMI ☐ RCA

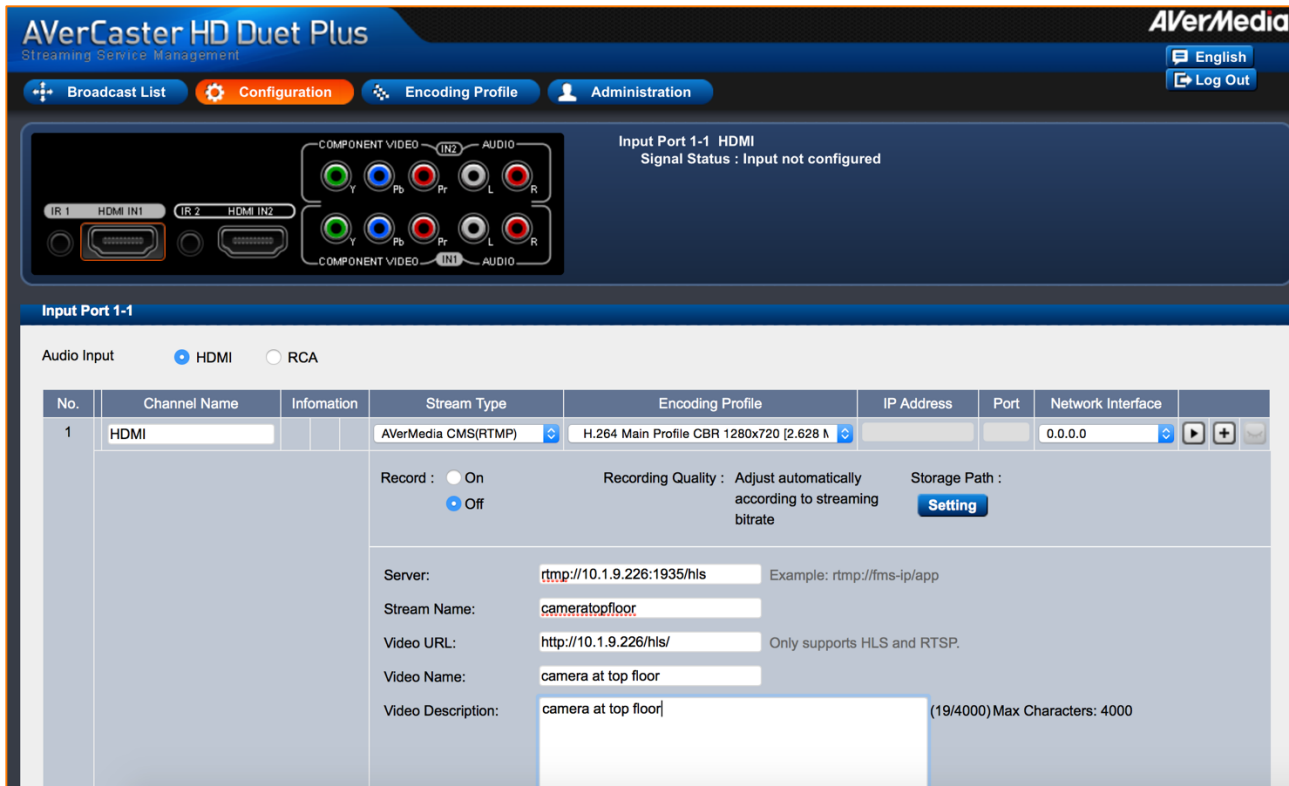
No.	Channel Name	Information	Stream Type	Encoding Profile	IP Address	Port	Network Interface
1	HDMI		AVerMedia CMS-UDP (Multicast)	H.264 Main Profile VBR 1280x720 [4.192 Mbps]	224.1.1.1	1234	10.1.9.72

Record : ☐ On ☒ Off

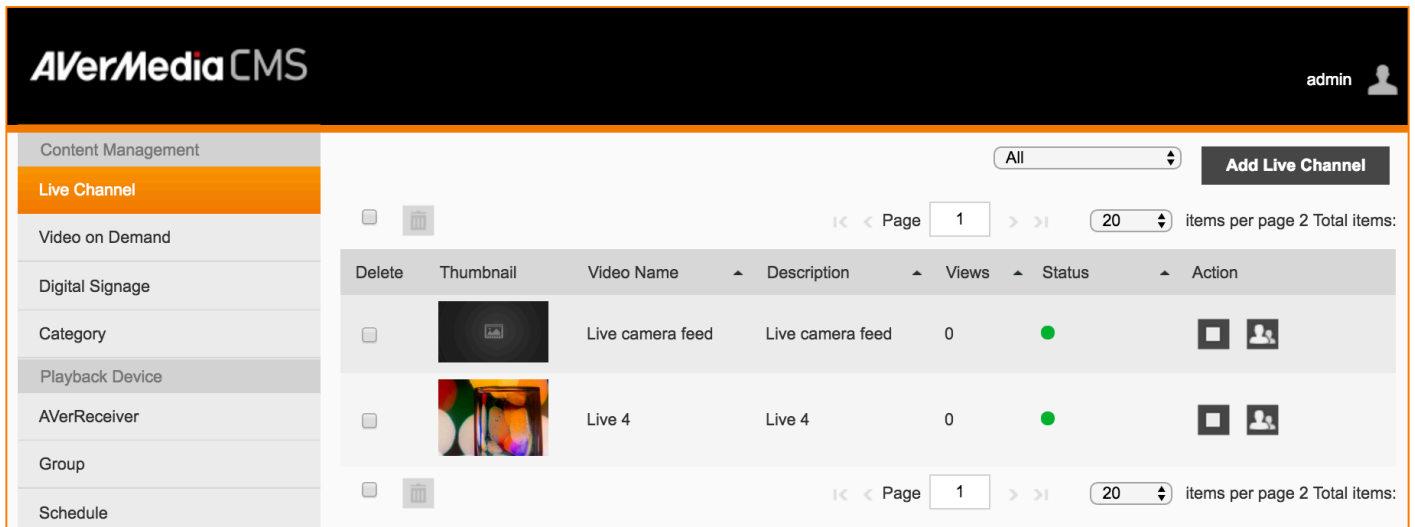
Recording Quality : ☒ Maximum Picture Quality ☐ Use Streaming Format

Storage Path : [Setting](#)

AVerMedia CMS also supports RTMP. Just select “AVerMedia CMS (RTMP)”.



In the “Live Channel” page on CMS, streaming channels will be created automatically. Assign this live channel to groups will help with the management of content on a group basis.

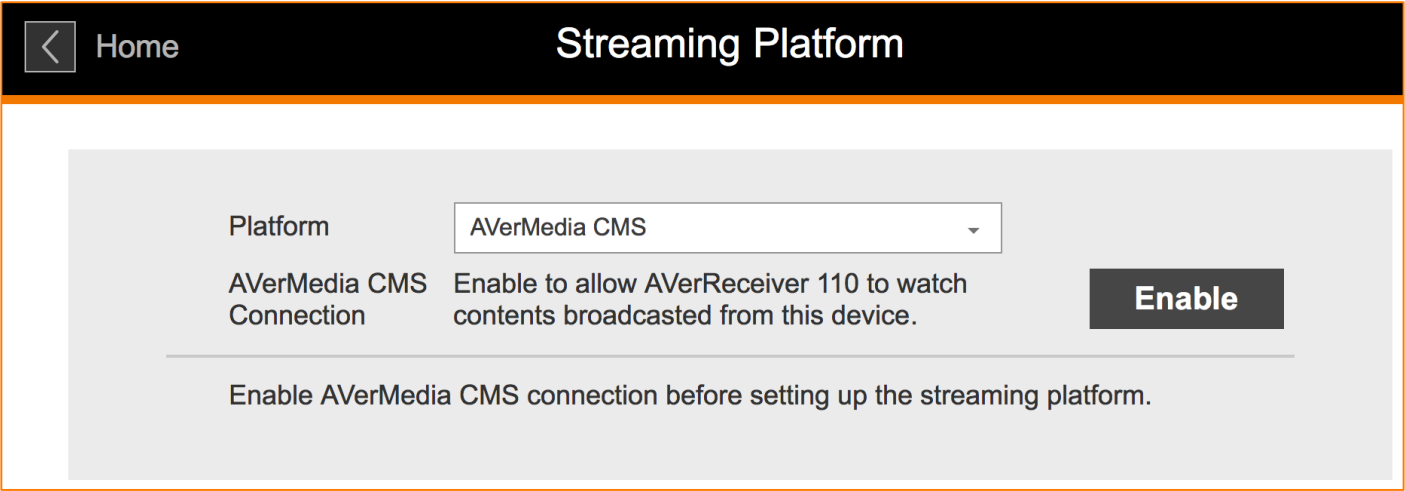


AVerCaster Lite (SE510)

SE510 is a single channel encoder accepting HDMI and composite video signal. To enable support for AVerMedia VueSign CMS, open the “Streaming Platform” settings.



Select “AVerMedia CMS” in “Platform” and click on “Enable”.



Enter the IP address and port number of CMS server.

Enable AVerMedia CMS

10.1.9.117

80

Connect

Cancel

After the connection is made, SE510 can also disconnect with the “Disable” button.

<

Home

Streaming Platform

Platform

AVerMedia CMS

AVerMedia CMS Connection

10.1.9.117:80

Disable

Please complete server settings for AVerMedia CMS to manage RTMP streaming contents.

! Name

Select [Add New Server Address]

Back to the CMS management page, SE510 shows up in the “Encoder” page with its assigned device name. In this case, the name is “Demo”.

AVerMediaCMS

admin

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

AVerReceiver

Group

Schedule

Streaming Encoder

Encoder

<< < Page 1 > >>

20 items per page 2 Total items:

Serial Number	Device Name	IP	Status	Action
1307055100048	demo	10.1.9.99		
1307945300015	F23900181af1752a	10.1.9.72		

<< < Page 1 > >>

20 items per page 2 Total items:

Now add a streaming task by selecting the “Add New Server Address”.

The screenshot shows the 'Streaming Platform' interface. At the top, there is a navigation bar with a back arrow and the text 'Home'. Below this, the title 'Streaming Platform' is centered. The main content area has a light gray background. On the left, there is a 'Platform' dropdown menu set to 'AVerMedia CMS'. Below it, the 'AVerMedia CMS Connection' is shown as '10.1.9.117:80'. To the right of this, there is a 'Disable' button. Below the connection information, a message states: 'Please complete server settings for AVerMedia CMS to manage RTMP streaming contents.' Below this message, there is a warning icon (a yellow triangle with an exclamation mark) and the label 'Name'. To the right of the label is a dropdown menu with the text 'Select [Add New Server Address]'. Below this dropdown menu, there is a button labeled 'Add New Server Address'.

Setting up TS multicast is straight-forward. Just select “TS multicast” from the first drop-down list.

The screenshot shows the 'Add New RTMP Server Address' dialog box. The title bar at the top says 'Add New RTMP Server Address' with a close button (X) on the right. The dialog contains several fields: a dropdown menu set to 'TS Multicast', a text field with 'Live camera from exit 2', a text field with '239.1.1.1', a text field with '1234', a 'TTL' label with a text field containing '64', an 'Enable SAP' toggle switch which is currently turned on (orange), another text field with 'Live camera from exit 2', a 'Manually set PID' toggle switch which is currently turned off (gray), and a large text area with 'Live camera from exit 2'. At the bottom of the dialog, there are two buttons: 'Done' and 'Cancel'.

Select the new steaming task in the main screen and click on the “STREAM” button.

Streaming Platform

Platform

AVerMedia CMS

Name

Live camera from exit 2

Streaming Quality

Quality

HD(720P) [4.0 Mbps]

Network

Ethernet

STREAM

A new live channel will become available.

AVerMedia CMS

admin

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

AVerReceiver

Group

All

Add Live Channel

<<

>>

Page 1

20

items per page 2 Total items:

Delete	Thumbnail	Video Name	Description	Views	Status	Action
<input type="checkbox"/>		Live camera from exit 2	Live camera from exit 2	0	●	
<input type="checkbox"/>		Live camera feed	Live camera feed	0	●	

<<

>>

Page 1

20

items per page 2 Total items:

Setting up a RTMP streaming is just as easy. Select “RTMP” from the first drop-down list and enter all the stream details.

Add New RTMP Server Address

RTMP

Signage CDN

rtmp://10.1.9.226:1935/hls

hallway

http://10.1.9.226:1935/hls/hallway.m3u8

AVerMedia CMS only support hls and rtsp standard

Camera from Hall Way

Camera from Hall Way

RTMP Authentication

Done

Cancel

After streaming is started, a new live channel will be created.

AVerMedia CMS

admin

Content Management
Live Channel
Video on Demand
Digital Signage
Category
Playback Device
AVerReceiver
Group
Schedule

All
Add Live Channel

Page 1
20 items per page 2 Total items:

Delete	Thumbnail	Video Name	Description	Views	Status	Action
<input type="checkbox"/>		Camera from Hall Way	Camera from Hall Way	0	●	
<input type="checkbox"/>		Live camera feed	Live camera feed	0	●	

Page 1
20 items per page 2 Total items:

61

VueSign CMS Use Manual

HLS push is the same. Frist create a streaming task.

Edit RTMP Server Address

HLS Push

Name

camera

Number of Segments

5

Segment Duration (ms)

2000

Location (URL)

http://10.1.9.230/upload

Account

admin

Password

admin

Camera at exit 2

Camera at exit 2

Delete

Done

Cancel

Select this HLS streaming task in the main menu and click on “STREAM” button.

Streaming Platform

Platform

AVerMedia CMS

Name

camera

Streaming Quality

Quality

HD(720P) [4.0 Mbps]

Network

Ethernet

STREAM

New live channels on CMS management web after streaming is started.

The screenshot displays the AVerMedia CMS interface. On the left is a sidebar with a 'Content Management' menu where 'Live Channel' is selected. The main area shows a table of live channels. The table has columns: Delete (checkbox), Thumbnail (image icon), Video Name, Description, Views (0), Status (green dot), and Action (icons for edit and delete). Two entries are visible: 'Camera at exit 2' and 'Live camera feed'. Above the table, there are pagination controls showing 'Page 1' and '20 items per page 2 Total items:'. An 'Add Live Channel' button is in the top right corner.

Other-brand Encoders and IP Cameras

Other-brand encoders and IP cameras can also contribute as a source of live channels. All you have to do is look up the “playback address” in the setting page of the encoders and IP cameras. Three formats of playback address are supported:

HLS: The address is something like “http://...../*.m3u8”.

RTSP: The address is something like “rtsp://.....”.

TS (UDP) Multicast: The address is something like “udp://@.....”

It is a good practice to try this playback URL on VLC software first. And please note that with the vast diversity of 3rd-party encoders and IP cameras, not all of them can be supported right out of the box by VueSign solution.

Click “Add Live Channel” in the “Live Channel” page.

This screenshot shows the same AVerMedia CMS interface after a new live channel has been added. The table now contains one entry: 'Live 4'. The thumbnail shows a colorful abstract image. The 'Views' column shows 0, and the 'Status' is green. The 'Add Live Channel' button remains in the top right corner.

Enter the playback address to the “Playback URL” field. It is necessary to fill up the video name and upload a thumbnail image. Assigning this live channel to groups will help with the management of content on a group basis.

AVerMedia CMS

Content Management

- Live Channel**
- Video on Demand
- Digital Signage
- Category
- Playback Device
- AVerReceiver
- Group
- Schedule
- Streaming Encoder
- Encoder
- Settings
- Weather Location
- Emergency Bulletin
- Database
- Timezone

Hard Disk Space : 100 GB

Video Name
Camera at hallway

Description
Security camera at hall way

Thumbnail
Upload

Playback URL
udp://@225.1.15.91:1234

Primary Category
Demo

Subcategory
For sales

Group

- ☐ company
- ☒ VoD group
- ☐ Empty signage
- ☒ Signage group

OK **Cancel**

Press “OK” to save this live channel for use in digital signage and video on demand.

Group and Category

Group

Group is a mechanism to limit what content can be watched on which AVerReceiver. It is very helpful to manage AVerReceivers in groups and manage the receivers on a group basis.

You can create a new group by click on “Add Groups” in the “Group” page.

AVerMedia CMS admin

Add Groups

Delete	Group name	Device Mode	Number of AVerReceivers
<input type="checkbox"/>	Empty signage	Digital_signage	0
<input type="checkbox"/>	Signage group	Digital_signage	1
<input type="checkbox"/>	VoD group	Normal	0

Page 1 of 3 items

Choose if this group is intended for digital signage or video-on-demand applications. If in digital signage mode, a template or schedule can also be assigned to this group, so that all AVerReceivers in the same group will execute the assigned template or schedule.

AVerMedia CMS

Group name

Description

Device Mode ☒ Video on Demand ☐ Digital Signage

Playback Schedule ☒ Digital Signage ☐ Schedule

DST_Education

None

OK **Cancel**

When uploading MP4 videos and setting up live channels, be sure to assign them into groups. This is so that AVerReceivers in the group will be able to select the video for viewing.

Primary Category

None

Subcategory

Default

Group

☒ company

☐ VoD group

☐ Empty signage

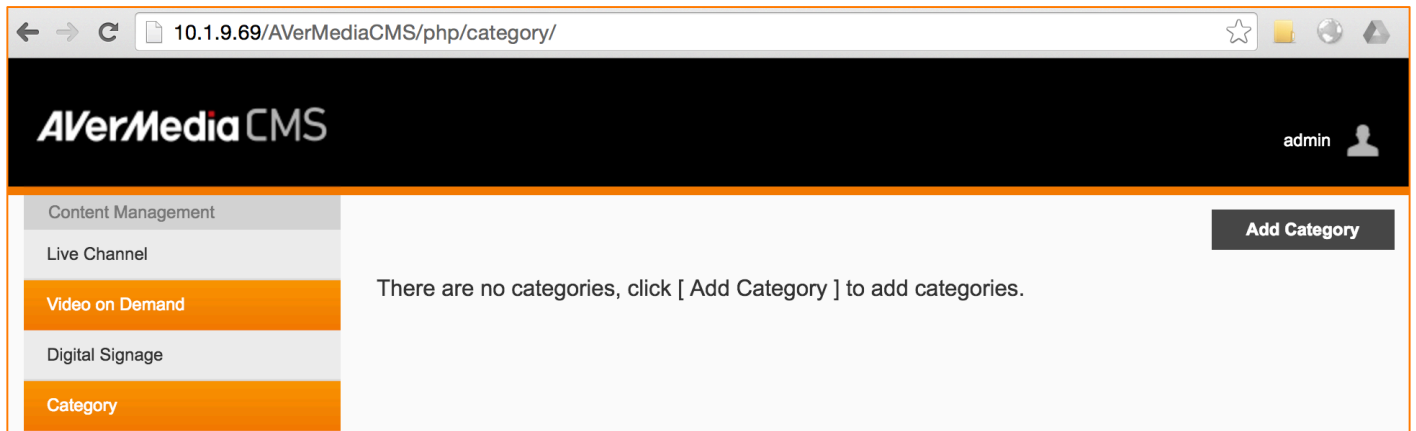
☐ Signage group

Save

Category

Category classifies videos to make it easier for users in video-on-demand application to choose from hundreds or thousands of videos. Sub-category can also be created per category, making the classification even more fine-grained.

Click “Add Category” in the “Category” page.



Enter the name of the category.

Add Category

Primary Category

Training Video

SaveCancel

To add a sub-category in the category, first click in the list of categories to select a category. And click “Add Subcategory”.

AVerMediaCMS

admin

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

Primary Category: Training Video

Add Subcategory

Subcategory

☐ default

Page 1

20 items per page 1 Total items:

Enter the name of sub-category.

Add Subcategory

Subcategory

Laundry machines

SaveCancel

When editing the information of uploaded MP4 video, select among the “Primary Category” and “Subcategory” to put the video in the correct category and sub-category.

Primary Category
Training Video

Subcategory
Laundry machines

Group

☒ company
☒ VoD group
☐ Empty signage
☐ Signage group

Save

Emergency Bulletin

In the “Emergency Buttetin” page, enter the text messages and font size. Click “Publish” to push the emergency message to all AVerReceivers managed by VueSign CMS.

AVerMedia CMS

Content Management
Live Channel
Video on Demand
Digital Signage
Category
Playback Device
AVerReceiver
Group
Schedule

Post Emergency Bulletin

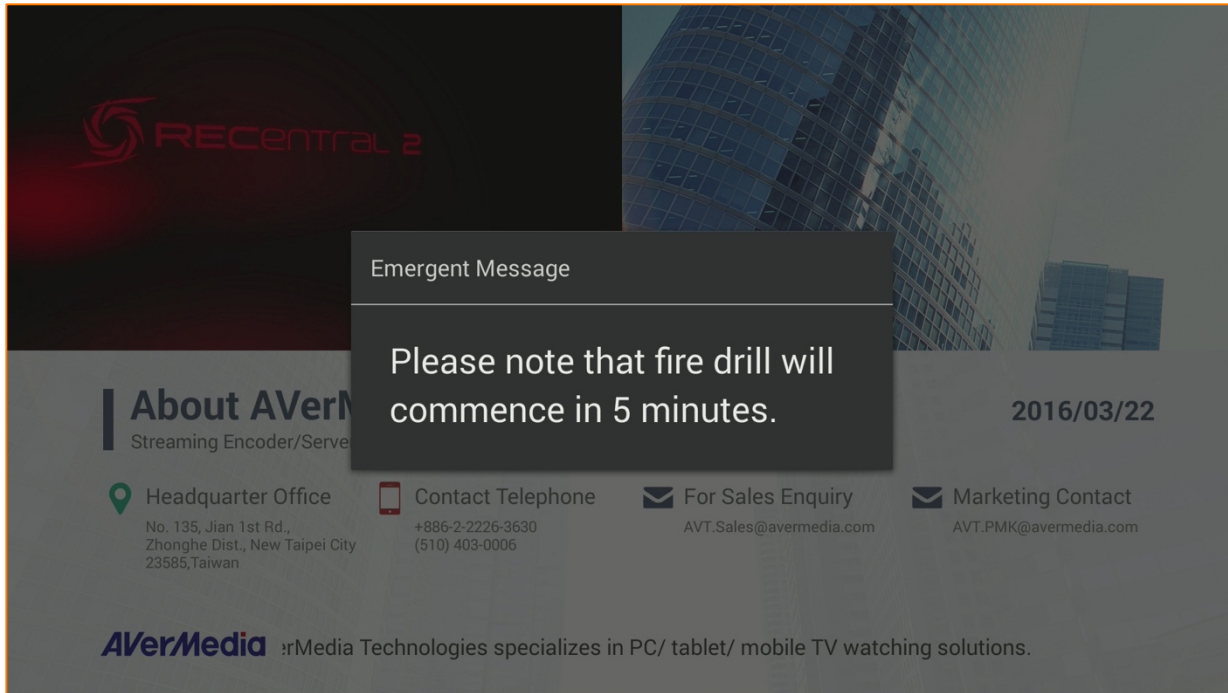
Content Management

Please note that fire drill will commence in 5 minutes.

Font Size
55

Publish

All AVerReivers will present the messages as illustrated.



This message will only disappear if you cancel the publish.

Post Emergency Bulletin

Content Management

Please note that fire drill will commence in 5 minutes.

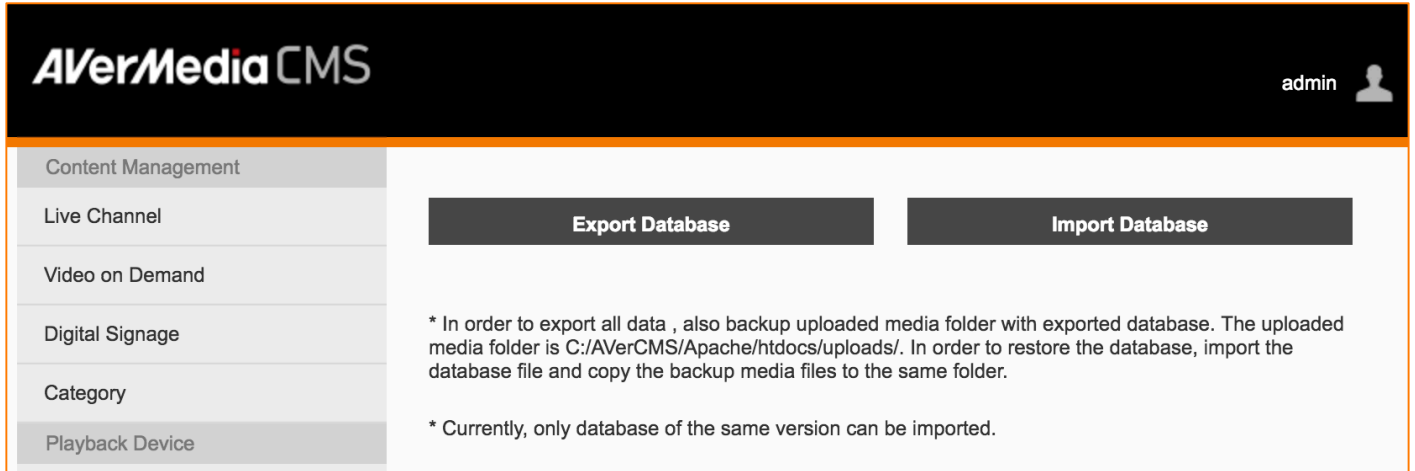
Font Size

55 ▼

Cancel Publish

Backup Database

When migrating VueSign CMS service or for backup purpose, it is necessary to export the database to a file and import this backup file later. You can do all these in the “Database” page. “Export Database” will provide a backup file to be saved into USB pen drive or other storage. “Import Database” will ask you to select the backup file to import all the database settings.



AVerMedia CMS admin

Content Management

Live Channel

Video on Demand

Digital Signage

Category

Playback Device

Export Database **Import Database**

* In order to export all data , also backup uploaded media folder with exported database. The uploaded media folder is C:/AVerCMS/Apache/htdocs/uploads/. In order to restore the database, import the database file and copy the backup media files to the same folder.

* Currently, only database of the same version can be imported.

The uploaded media including video and images are not backed up. You must manually transfer the files under C:\AVerCMS\Apache\htdocs\uploads folder.

Please note that the version of CMS must be the same for database import and export to work properly. If in doubt, check the CMS version in the lower part of page. In the following image, CMS version is 2.1.19. In this case, database exported by version 2.1.19 can only be imported to version 2.1.19. Failure to adhere to this rule will result in unexpected behavior.



Timezone

Hard Disk Space : 100 GB

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Server version : 2.1.19