

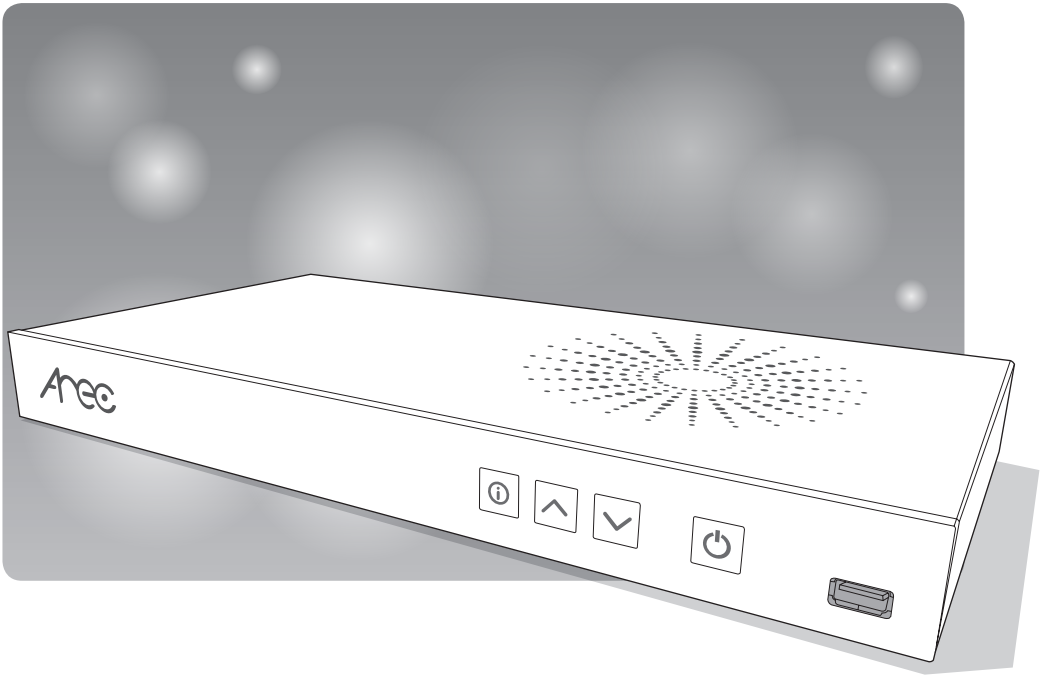


# DS-X01

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## Media Station

User Manual | English



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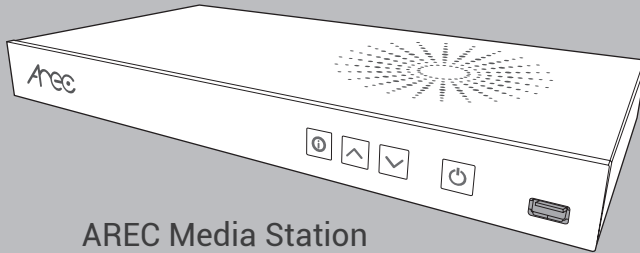
## Introduction

AREC DS-X01 Playout Station can decode IP Streaming directly, making it easy to be viewed on the local display. The IP streaming video sources can be from anywhere via an IP LAN Ethernet connection, including campus studio, real-time lecture seminar at school, live events, streaming from CDNs, video-on-demand content, IP camera viewing for insect observation or environment monitoring, and campus security...

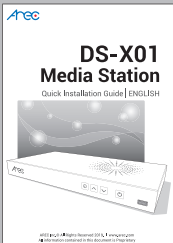
## Specifications

Product Name	Media Station
Model Name	DS-X01
Dimension	354mm(L) x 188.2mm(W) x 46mm(H)
Weight	1420g
Power Requirement	12V/2A
Power Consumption (Max.)	24W (Max.)
Operating Temperature / Humidity	0°C ~ 40°C / 90%
Maximum normal load description	Maximum normal load description Insert 1 IP CAM to LAN port or insert 1 video signal(either HDMI or VGA input). And output the transcoded video/audio to both HDMI and VGA port.

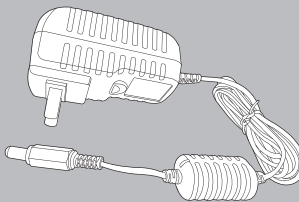
## Package Contents



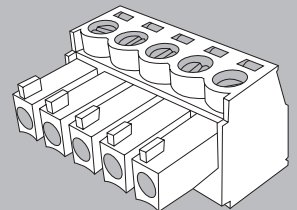
AREC Media Station



Quick Installation Guide



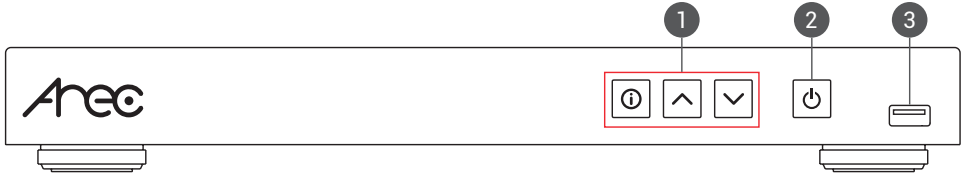
Power Adapter



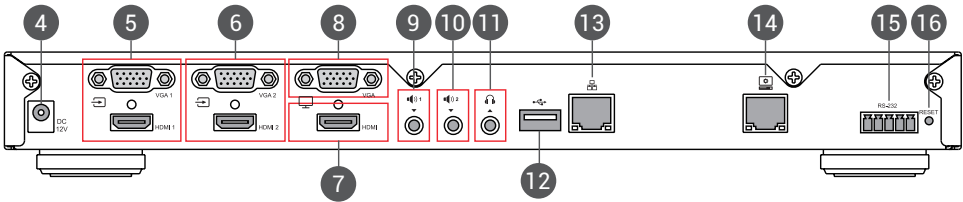
Terminal Block

## Product Appearance

### Front

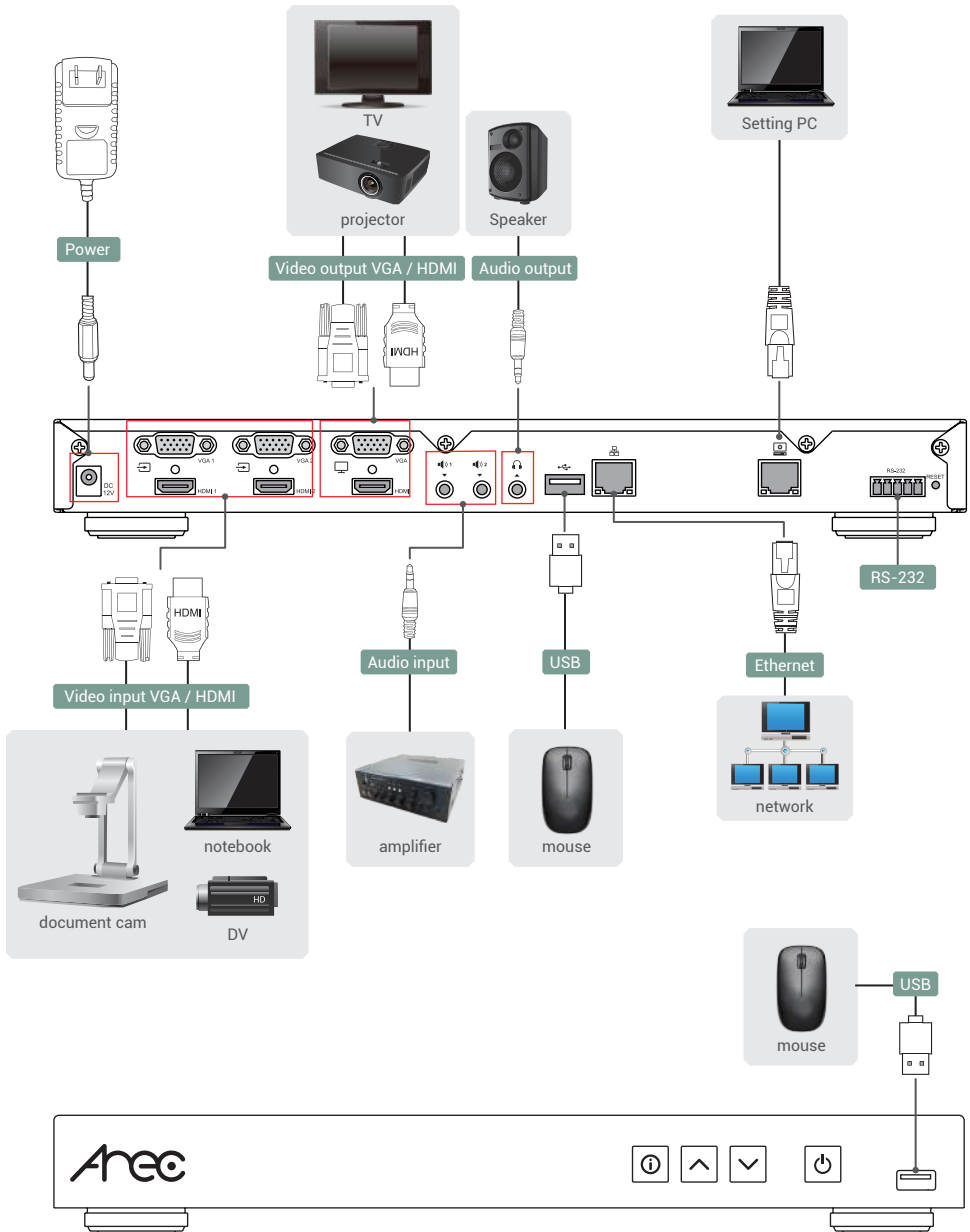


### Back








No.	Name	Brief introduction
1	Function keys	Open the information menu and switch the display channel.
2	Power	Power on/off the device
3	Front USB port	Firmware update through USB disk
4	Power port	12V / 2A
5	Video input	VGA 1/ HDMI 1 input source
6	Video input	VGA 2/ HDMI 2 input source
7	Video output (HDMI)	Monitor input sources
8	Video output (VGA)	Preview with On-screen menu
9	Audio input	Line audio input
10	Audio input	Line audio input
11	Audio output	Line audio output
12	Back USB port	For mouse control DS-X01 menu
13	Network port	RJ-45 Ethernet connector for network connection
14	Setting port	RJ-45 Ethernet connector for device configuration and control
15	RS-232	Captive screw connector for control over RS-232
16	Reset button	Restoring devices to its factory default state


# Connection




## Front Panel Buttons and Indicators

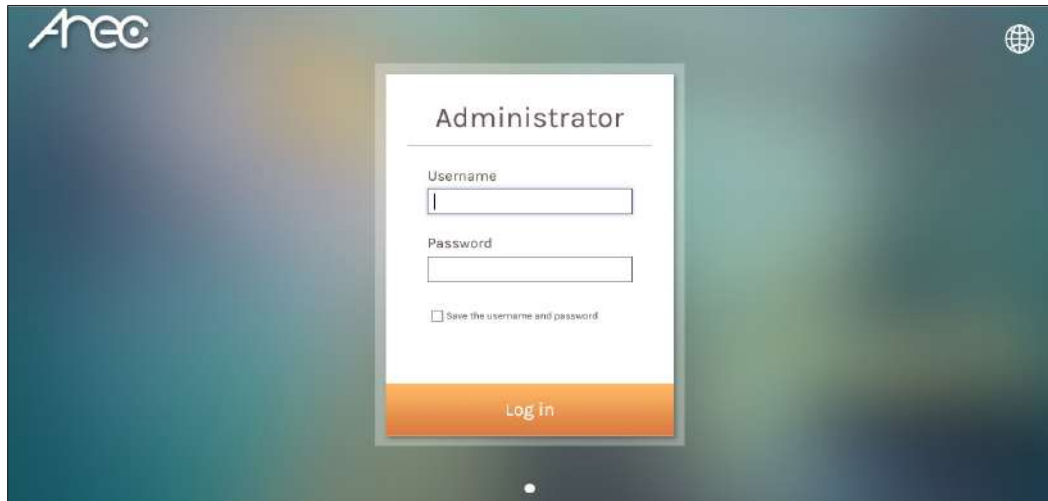
Button	Brief introduction
 Info	Open the DS-X01 About page and control audio volume.
 Up	Channel switching: Previous (HDMI/VGA or Stream sources in Sources list)
 Down	Channel switching: Next (HDMI/VGA or Stream sources in Sources list)

Note: Up and Down will cycle through the  or  list.

Button	Display method of indicator	Product status
 Power	Solid red.	Device is powered, yet not booted up.
	Green and red light flash alternately.	Device is booting up.
	Solid green.	Boot up completed.
	Fast flashing red.	Device is shutting down.
	Fast flashing green.	Firmware updating
	Slow flashing red.	Fan is abnormal

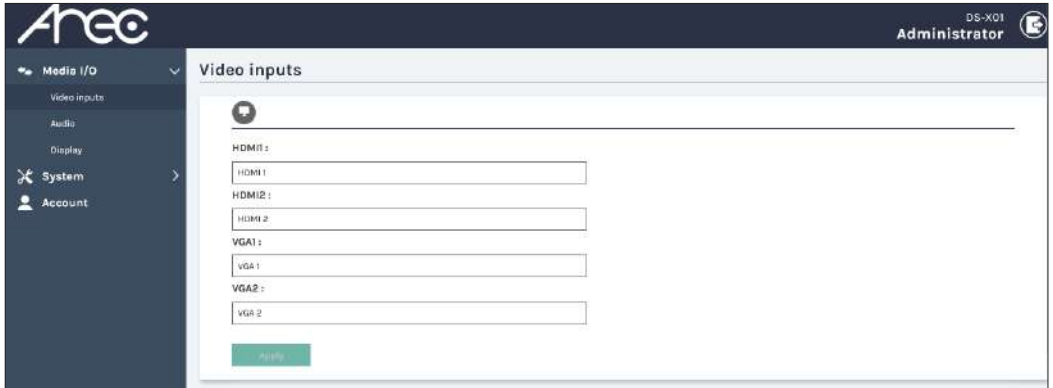
## Getting start

Connect PC to the setting port of Media Station with standard network cable. Open up the browser, and input 192.168.11.254 in the browser page. Log in Administrator  with default username admin and password admin, then entering the DS-X01 system Administrator webpages.



## Chapter 1 Administrator

The Administrator web pages provide a system administration interface of the DS-X01: it can perform Media I/O, Account and System settings. The Media I/O settings make sure each input source is properly connected and adjust the audio volume. System are pages contain basic settings and information of this device.



### 1.1 Media I/O

The pages within Media I/O include the following :



Video inputs

Set the name of the HDMI / VGA inputs. Add, delete and edit the sources list.

Audio

Adjust the volume of input and output.

Display

Set the DS-X01 on screen display language, video output settings and color adjustment.



## 1.1.1 Video inputs

Allows for Selecting Video Sources from Up to 99 1080p IP streams and 2 Local HDMI/VGA Inputs.

### 1.1.1.1 HDMI / VGA

The name of these inputs are user configurable; by default are HDMI 1, VGA 1, HDMI 2 and VGA 2.



**HDMI1 :**  
HDMI1


**HDMI2 :**  
HDMI2

**VGA1 :**  
VGA1


**VGA2 :**  
VGA2




Apply

### 1.1.1.2 Sources List

Video Sources from Up to 99 1080p IP streams. Click "Add" button to add a streaming source. Click  to delete the streaming channel.


Source List



Channel ID	Name	URL	
1	KL-3W-Cathy	rtmp://10.2.50.115/live/KL3W	
2	CW-210-Money	rtsp://10.2.50.135/h264	
3	LS-400-S1	rtmp://10.2.50.115/live/LS400-S1	
4	LS-300-Other	rtsp://10.2.50.143/rmovie	
5	CI-T211-Peter	rtsp://10.2.50.135/h264	

Video source

Name:  
LS-400

URL:  
rtmp://10.2.50.115/live/LS-400 

Cancel Apply

Enter the channel name and URL, Apply to add.

## Video Streaming Protocol :

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://@ip:port</code> . For example, <code>rtp://@226.10.24.32:7000</code>
RTSP	Enter the destination URL

## 1.1.2 Audio

Adjust the volume of input and output.

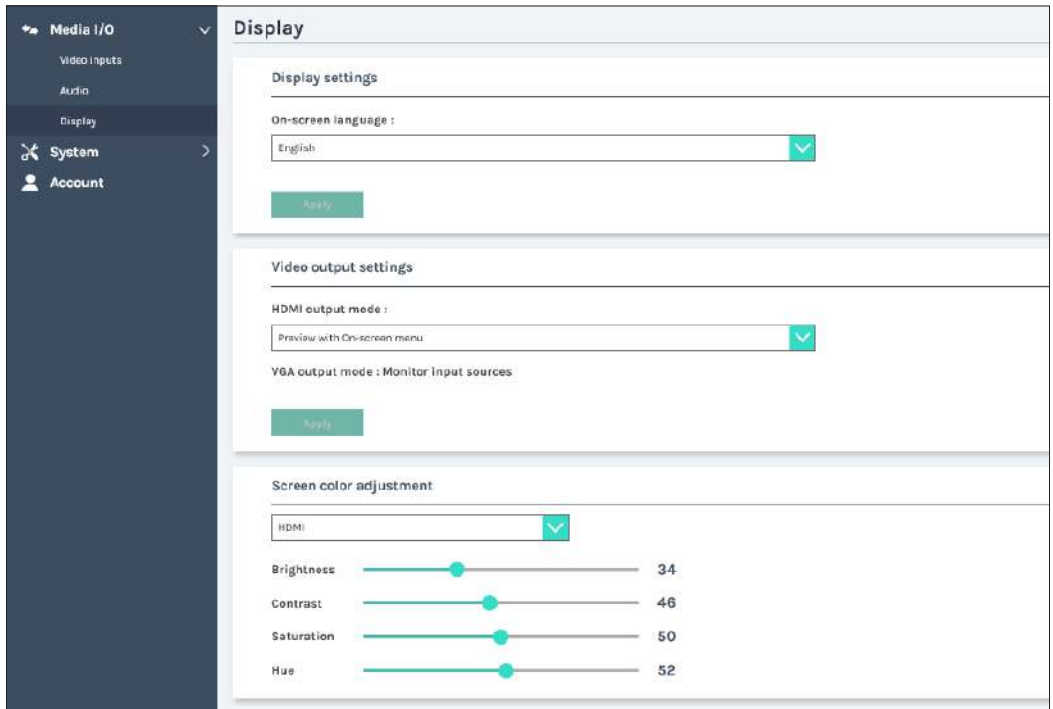
The screenshot shows the 'Audio' control panel in the Arec DS-X01 interface. On the left is a navigation menu with 'Media I/O' selected, showing sub-items for 'Video inputs', 'Audio', 'Display', 'System', and 'Account'. The main panel is titled 'Audio' and contains two sections: 'Input volume control' and 'Output volume control'. Each section has a 'Default' button in the top right corner. The 'Input volume control' section features three sliders: 'HDMI1 / Line-in 1', 'HDMI2 / Line-in 2', and 'Encoder (RTP/RTMP)', all positioned at the 100 mark. Below these is a 'Current volume' indicator consisting of a speaker icon and a bar graph with 10 segments. The 'Output volume control' section features two sliders: 'Line output' and 'HDMI output', both positioned at the 100 mark.

Input volume control - Users can adjust the volume of HDMI1/Line-in 1, HDMI2/Line-in 2 and stream. Configurable range of sound input is 0-125. The nearby volume meter indicates the encoded audio current volume.

Output volume control - Adjust the Line output or HDMI output volume.

### 1.1.3 Display

Set the DS-X01 on screen display language, video output settings and color adjustment.



**Media I/O**

- Video Inputs
- Audio
- Display

**System**

**Account**

#### Display

##### Display settings

On-screen language : English

Apply

##### Video output settings

HDMI output mode : Preview with On-screen menu

VGA output mode : Monitor Input sources

Apply

##### Screen color adjustment

HDMI

Brightness	<input type="range"/>	34
Contrast	<input type="range"/>	46
Saturation	<input type="range"/>	50
Hue	<input type="range"/>	52

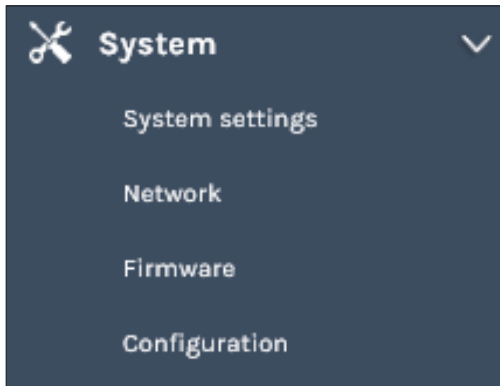
On-screen language: Change the GUI language.

Video output settings: Setting the HDMI display Monitor input sources or Preview with On-screen menu.

Screen color adjustment(HDMI and VGA): Change the Brightness, Contrast, Saturation and Hue

## 1.2 System

The pages within System include the following :



System 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 user a way to update firmware for the device.
Configuration	Export / Import the configuration.

## 1.2.1 System settings

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

The screenshot shows the 'System settings' page of the DS-X01 device. The left sidebar contains navigation options: Media I/O, System (selected), System settings, Network, Firmware, Configuration, and Account. The main content area is titled 'System settings' and is divided into four sections: Device Identification, Date and time, Boot image, and Power.

**Device Identification**

Hostname:  Hostname follows RFC-822 Internet host table specification.

Device description:

Brand: AREC Inc.

Model: DS-X01

Serial number:

MAC: 7C3A854F815E

**Date and time**

Device current date and time: 2019-07-16 03:48:21

Time zone: GMT

Setting mode: NTP service

NTP server url:

**Boot image**

File format: PNG  
File size: 3 MB  
Resolution(Max): 1920x1080

**Power**

Power mode:

Copyright © AREC Inc. All Rights Reserved.

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 appears with the newly uploaded image. Click Apply button at the bottom corner to apply the settings, or click Cancel to give it up.

Power – Choose how to turn on the device.

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

## 1.2.2 Network

By default DS-X01 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' configuration page. On the left is a dark sidebar with navigation options: Media I/O, System (selected), System settings, Network, Firmware, Configuration, and Account. The main content area is titled 'Network' and contains the following elements:

- Network settings** header.
- A warning message: "The system will reboot after changing the network settings. Please re-login."
- IP assignment:** A dropdown menu currently set to 'DHCP' with a green checkmark.
- IP address:** A text input field with a placeholder '192.168.1.10'.
- Subnet mask:** A text input field with a placeholder '255.255.255.0'.
- Default gateway:** A text input field with a placeholder '192.168.1.1'.
- Primary DNS Server:** A text input field with a placeholder '192.168.1.1'.
- Secondary DNS Server:** An empty text input field.
- An 'Apply' button at the bottom left.

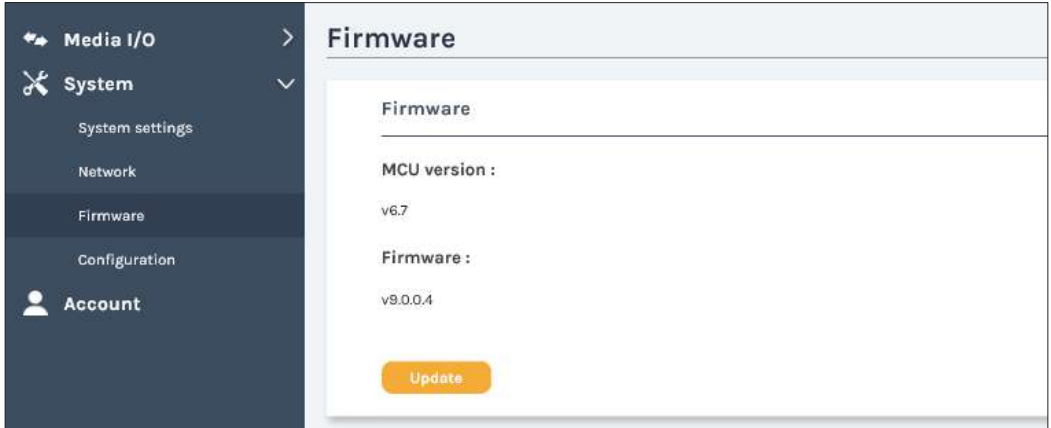
IP assignment – Select DHCP to have IP address be allocated by a router or any DHCP server being connected; or Select Static IP and enter the required network settings including IP address / subnet mask / default gateway/ DNS server. Click Apply at lower right corner, click Confirm in popup dialog box.

NOTE: The system will automatically reboot to complete the network settings. Login the updated IP address after the system restarts.

### 1.2.3 Firmware

This page displays the device firmware version. To update the firmware, click "Update" and a dialog box opens asking you to select the file. Select the desired file and click "Open", the dialog box closes and the file name appears underneath. Click "Apply" to start firmware update. Click "Cancel" if the uploaded file is no longer wanted.

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




Service data : Export the log file to your computer or upload it to the Customer Service Server. Input the file name, and then click "Export" or "Upload".

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

**Service data**

---

Export the log file to your computer

Description: 

Export

Reset : Reset to factory default. Check if you want to keep your network settings, and click "Reset".The dialog pop out and ask you "System will reboot after updating, continue?"

" Click "Confirm" to start reset.

**Reset**

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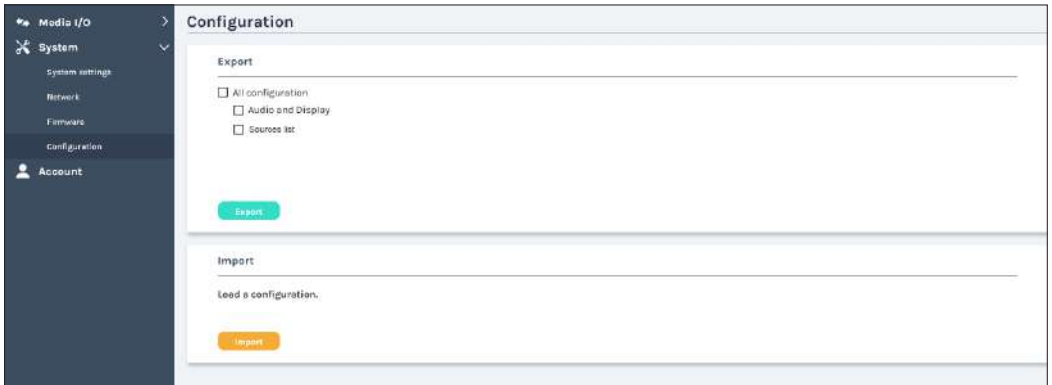
**Reset to factory default**

Except the network settings

Reset

## 1.2.4 Configuration

You can export or import the configuration in this page :



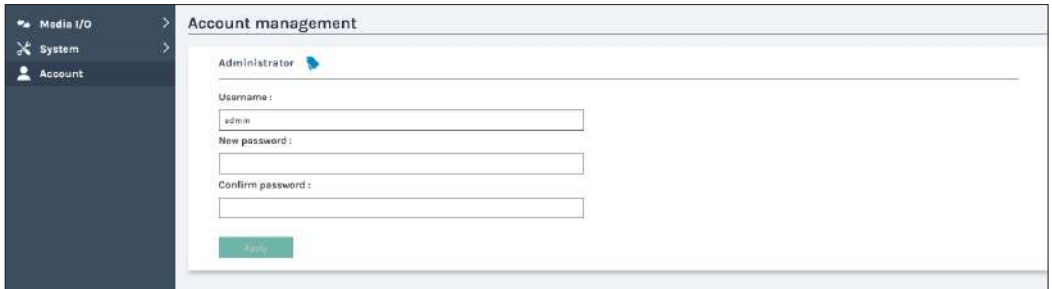
Export : Select the configuration to export and click "Export".

Import : Click "Import" to load a configuration.



## 1.3 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', 'System', and 'Account'. The main content area is titled 'Account management' and shows the configuration for the 'Administrator' user. The 'Username' field is pre-filled with 'admin'. Below it are three input fields for 'New password', 'Confirm password', and a green 'Apply' button at the bottom.

Changing username and password with Administration :

- (1) New User: Enter a user login name that you want.
- (2) New Password: Enter the user login password that you want.
- (3) Confirm Password: Requires you to enter your password again for confirmation.
- (4) Click Apply.

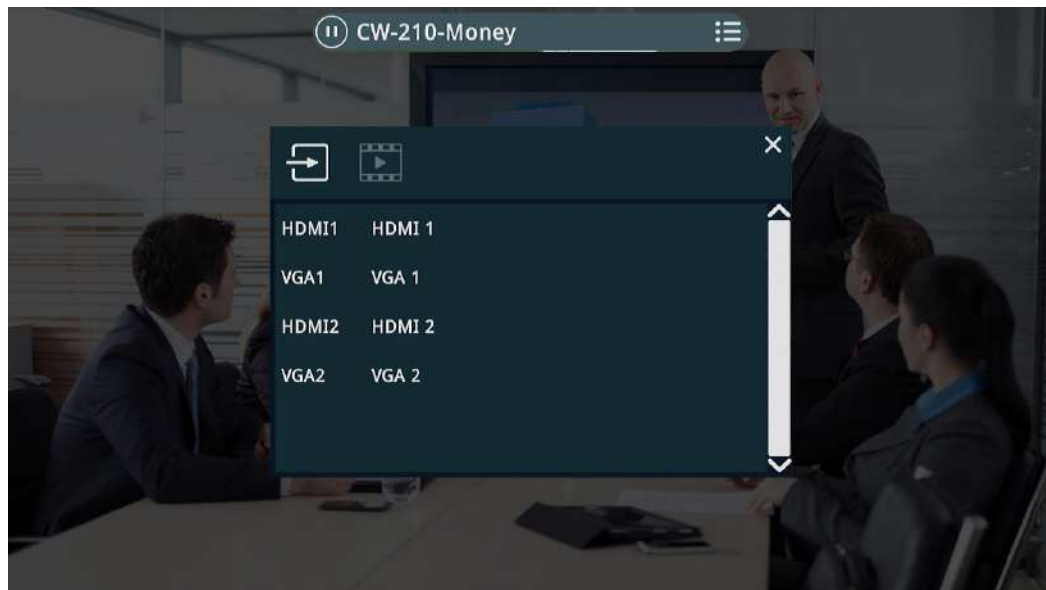
## Chapter 2 The Local Display

Allows for Selecting Video Sources from Up to 99 1080p IP streams and 2 Local HDMI/VGA Inputs, and Displays via HDMI and VGA/Line-Out Outputs.

### 2.1 On-screen menu

After the USB port is connected to the mouse, user can click the menu on the screen. GUI allow user to switch the video source view on the display.

Note: on-screen GUI is selectable between HDMI and VGA display port, please refer to 1.1.3 Display



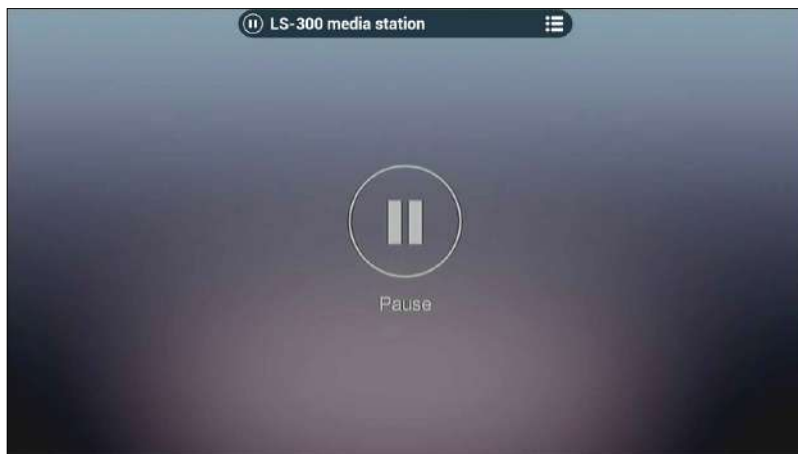
## 2.1.1 Functions

This section introduces the names and the functions of these buttons.

### ⏸ LS-300 media station ☰

#### a. Pause button

Click ⏸ button the DS-X01 will stop preview the video channel. The screen will show as below. Click the button again resume the HDMI / VGA or stream.



#### b. A list of all channels

Click ☰, HDMI / VGA sources and streaming sources which you setting in the Media I/O / Video inputs. Click the source on the dialog or use buttons on the front panel can switch the channel.



Note: Up and Down will cycle through the → or ▶ list.

## 2.1.2 Others

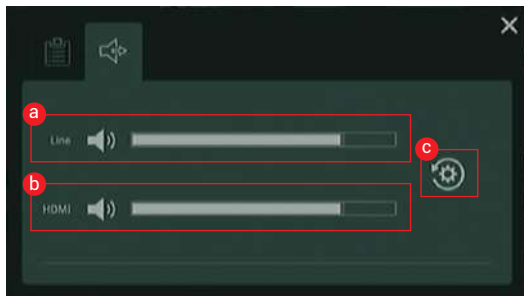
Click "Info" button on the front panel, the dialog as below.

### 1. Information



Show device information: Hostname/ Device description/ IP address/ Model/ Version/ Brand

### 2. Audio out



Audio Output Volume Control

- a. Line : Mute/ Down/ Up
- b. HDMI : Mute/ Down/ Up
- c. Default

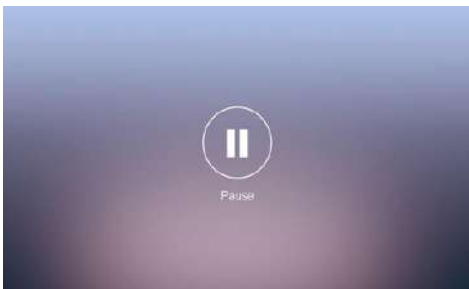
## 2.2 Monitor

The DS-X01 HDMI output defaults to the monitor input source, which switches the video through the On-screen menu or the up/down buttons.

Preview w/o GUI



Pause



## Table of On Screen Display Icons

The DS-X01 provides HDMI or VGA output. On screen display there are event icons and sometimes the error operation warnings.



HDMI / VGA Inputs Error



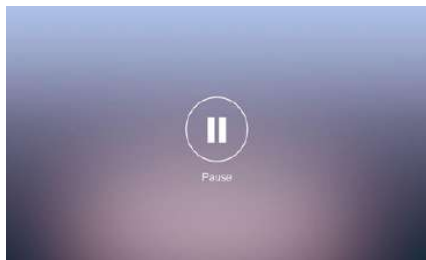
Streaming Inputs Error



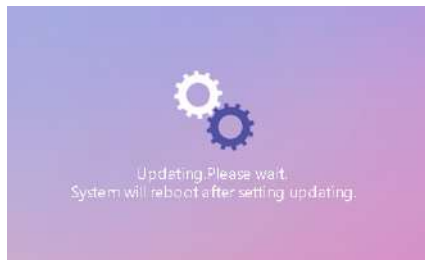
Wrong Operation  
(2 seconds)



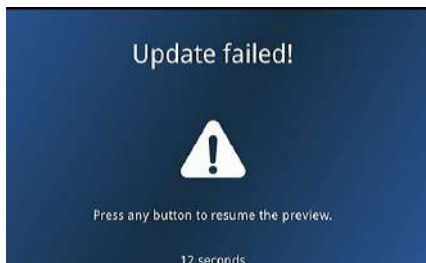
Network Error



paused



Firmware updating



Firmware update failure



Fan failure



Shutdown confirmation



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