DS-X01

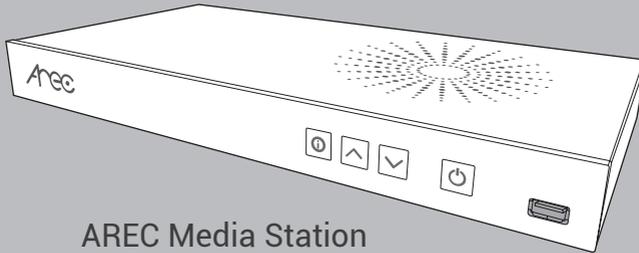## Media Station

User Manual | English

Table of Contents

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

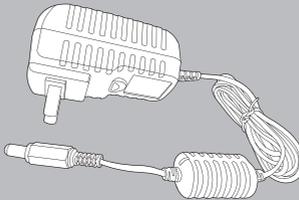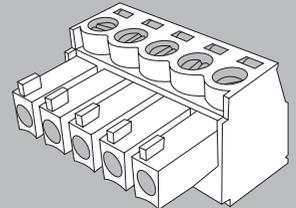| Product Name	Media Station
Model Name	DS-X01
Dimension	354mm(L) x 188.2mm(W) x 46mm(H)
Weight	1420g
Power Requirement	12V/2A
Power Consumption (Max.)	24W (Max.)
Operating Temperature / Humidity	0ºC ~ 40ºC / 90%
Maximum normal load description	Maximum normal load description Insert 1 IP CAM to LAN port 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

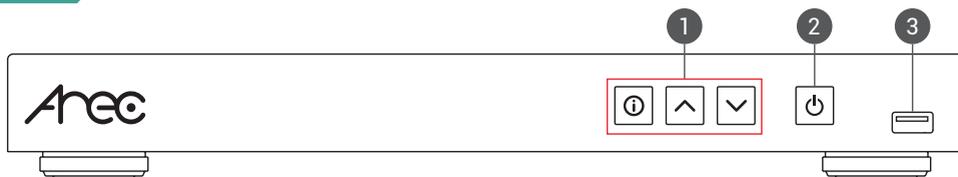|		
Quick Installation Guide	Power Adapter	Terminal Block

Product Appearance

Front

Back
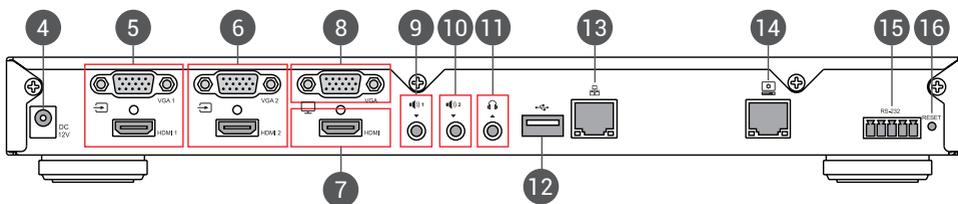
No.	Name	Brief introduction
1	Function keys	Open the information menu and switch the display channel.
2	Power	Power on/off the device
3	Front USB port	Firmware update through USB disk
4	Power port	12V / 2A
5	Video input	VGA 1/ HDMI 1 input source
6	Video input	VGA 2/ HDMI 2 input source
7	Video output (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

Power

TV

projector

Speaker

Setting PC

Video output VGA / HDMI

Audio output

DC 12V

VGA 1 VGA 2 VGA

HDMI 1 HDMI 2 HDMI

RS-232

Video input VGA / HDMI

Audio input

USB

Ethernet

RS-232

document cam

notebook

DV

amplifier

mouse

network

mouse

USB
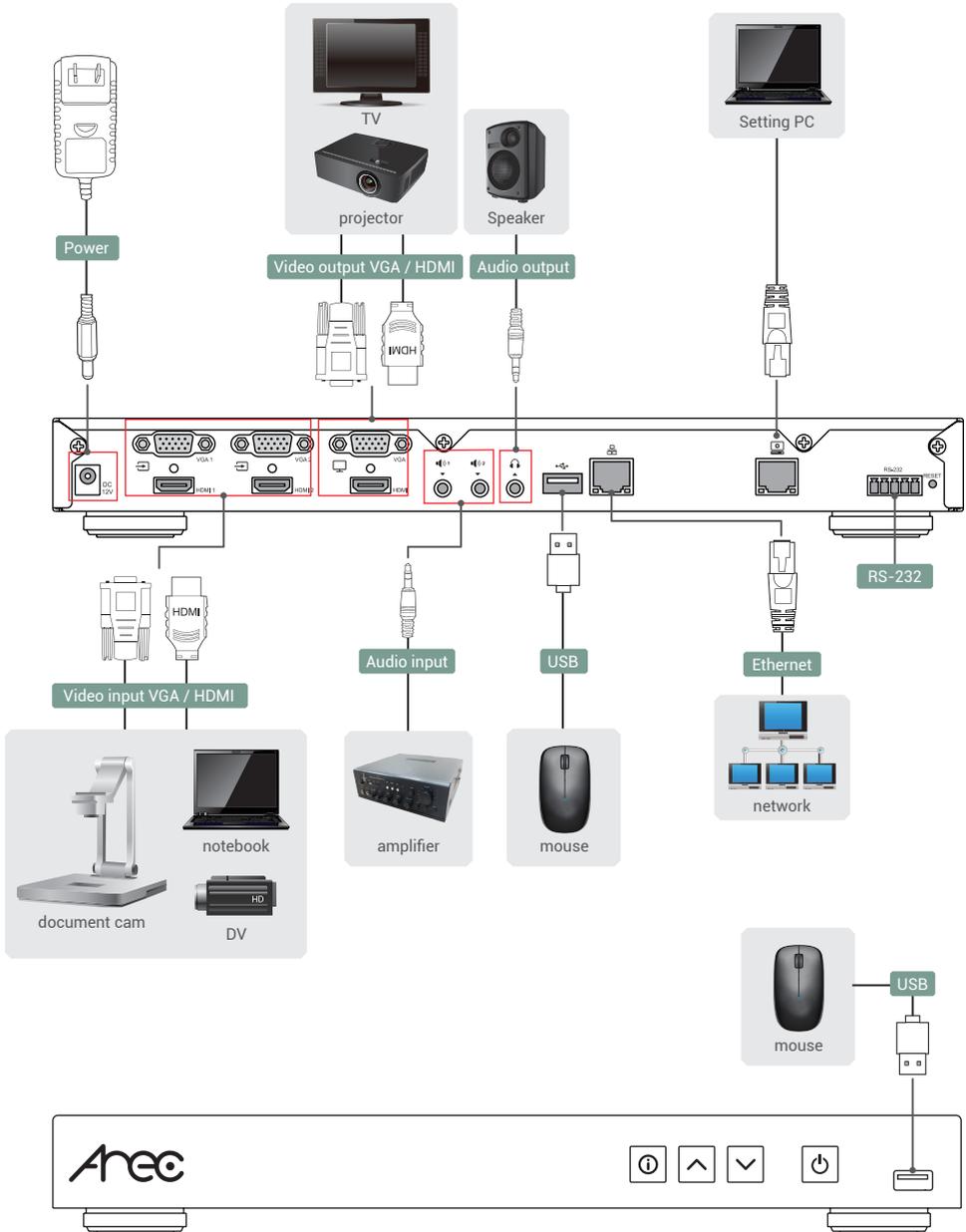
Front Panel Buttons and Indicators

| 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-X01system Administrator webpages.
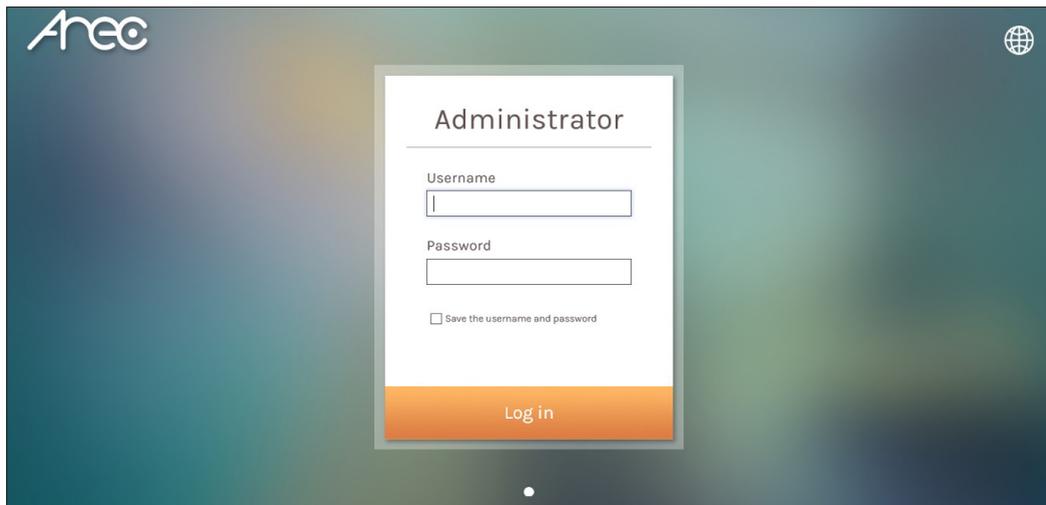
Chapter 1 Administrator

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.
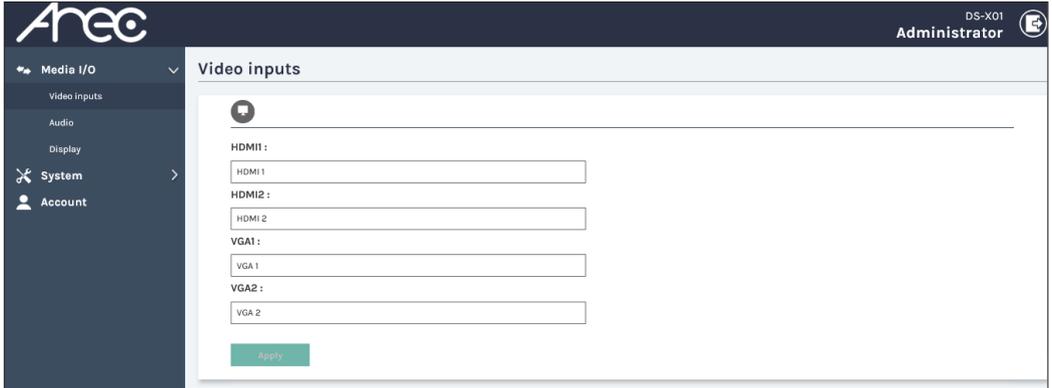
1.1 Media I/O

The pages within Media I/O include the following :
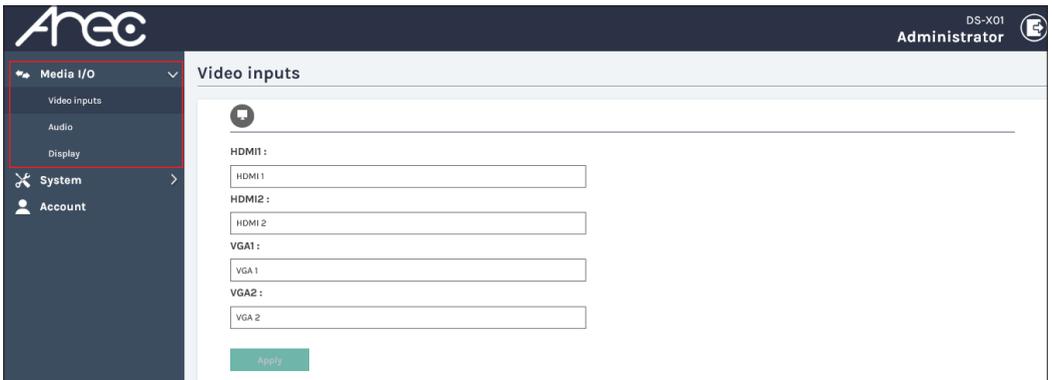
Video inputs	Set the name of the HDMI / VGA inputs. Add, delete and edit the sources list.
Audio	Adjust the volume of input and output.
Display	Set the DS-X01 on screen display language, video output settings and color adjustment.

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 :

HDMI 1

HDMI2 :

HDMI 2

VGA1 :

VGA 1

VGA2 :

VGA 2

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

➕ Add

Channel ID	Name	URL	
1	KL-3W-Cathy	rtmp://10.2.50.115/live/KL3W	🗑
2	CW-210-Money	rtsp://10.2.50.158/h264	🗑
3	LS-400-S1	rtmp://10.2.50.115/live/LS400-S1	🗑
4	LS-300-Other	rtsp://10.2.50.143/movie	🗑
5	CI-T21H-Peter	rtsp://10.2.50.135/h264	🗑

Video source ✕

Name :

LS-400

URL :

rtmp://10.2.50.112/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 rtmp://serverurl/streamname.
RTP	Enter the destination IP address and the port number where the streaming is played in the format rtp://@ip:port. For example, rtp://@226.10.24.32:7000
RTSP	Enter the destination URL

1.1.2 Audio

Adjust the volume of input and output.

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.

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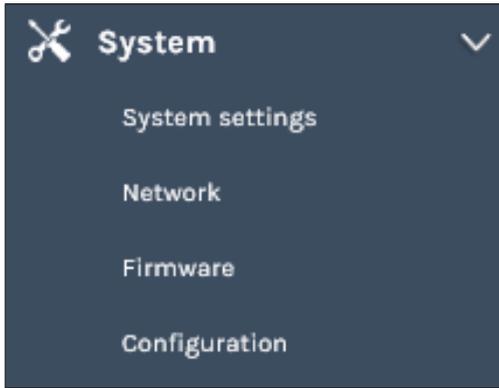
System settings	Contains device identification, date and time configuration, and booting settings.
Network	The device IP assignment in the networking.
Firmware	Displays the current firmware version, and provides web-based user a way to update firmware for the device.
Configuration	Export / Import the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

1.2.1 System settings

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

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.

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(~!@$%^&*-+_).

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?
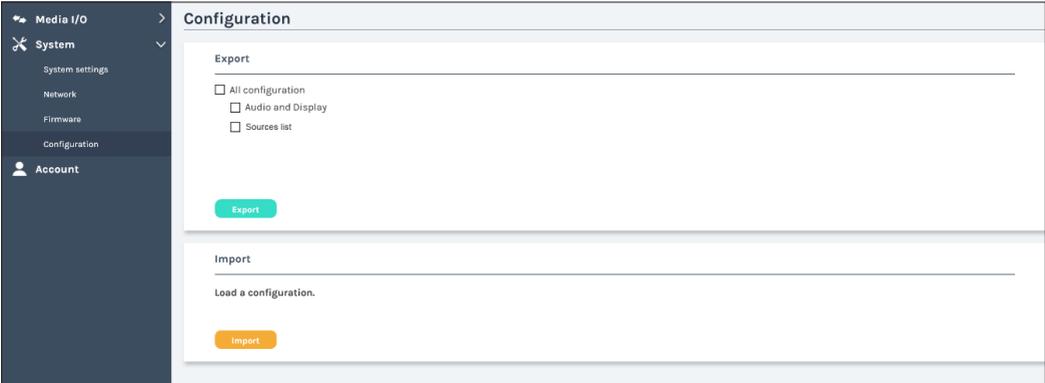
" Click "Confirm" to start reset.

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.
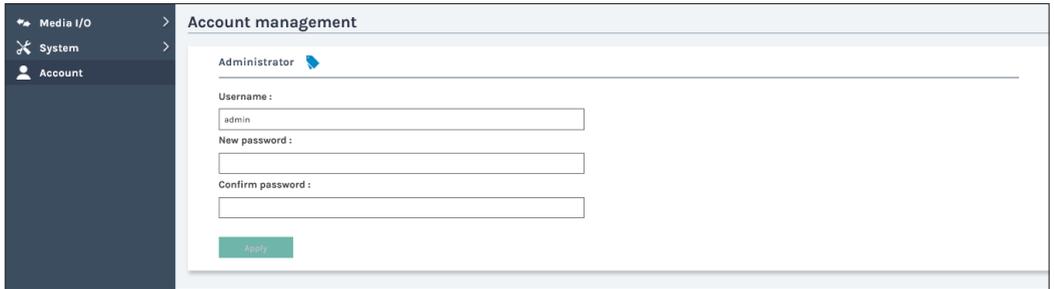
Changing username and password with Administration :

(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
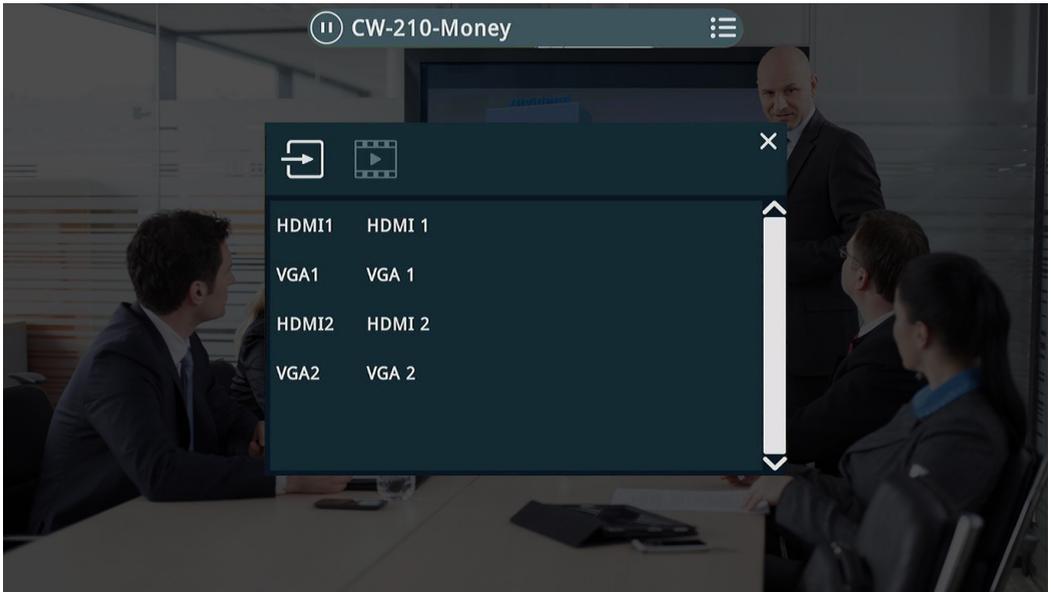
2.1.1 Functions

This section introduces the names and the functions of these buttons.
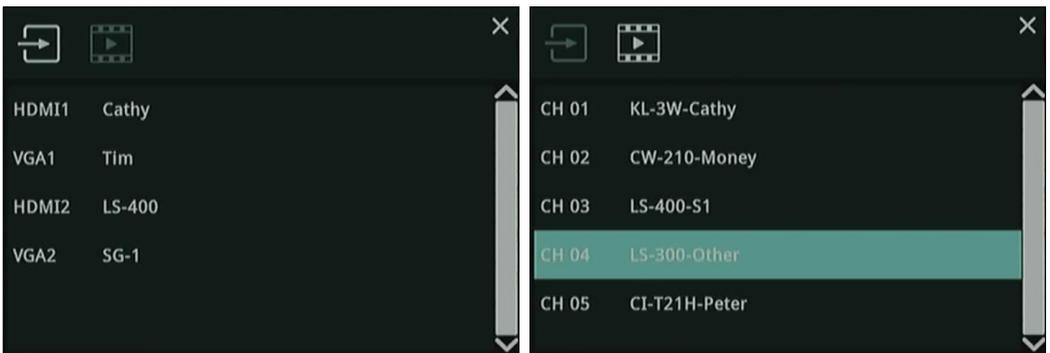
⏸ LS-300 media station ☰

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.

HDMI1	Cathy
VGA1	Tim
HDMI2	LS-400
VGA2	SG-1

CH 01	KL-3W-Cathy
CH 02	CW-210-Money
CH 03	LS-400-S1
CH 04	LS-300-Other
CH 05	CI-T21H-Peter

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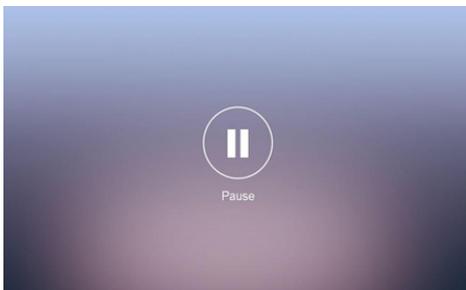a. Line : Mute/ Down/ Up
b. HDMI : Mute/ Down/ Up
c. Default

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.
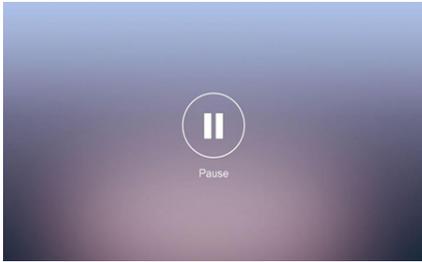

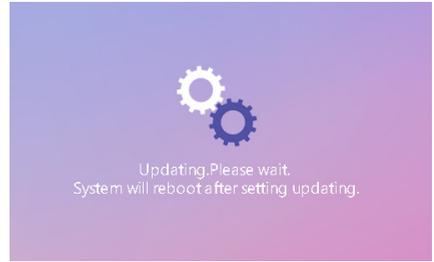| HDMI / VGA Inputs Error	Streaming Inputs Error	Wrong Operation (2 seconds)	Network Error

paused

Firmware updating

Firmware update failure

Fan failure

Shutdown confirmation

Made in Taiwan
Date : 2019.7.1
Version : 9.0