AVP-CBS2VW-100

1080P IP Video Processor/Windowing

User Manual

Version: 20241024

Introduction

AVP-CBS2VW-100 is a windowing processor, it can decode up to 9 IP streams with 1920x1080P@60Hz resolution supported and mix them in an overlapped way, and finally output to H.264 receivers through Ethernet or to an HDMI display through HDMI port. This device offers solutions for conference rooms, shopping malls, hotels, high resolution signage, monitoring centers, schools and corporate training environments, etc.

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Features

- Decodes up to 9 video streams from multiple encoders and supports window roaming to H.264 decoders and a single display.
- Supports input streaming resolutions up to 1920x1080P@60Hz.
- 2-way RS-232 between the display and the controller system.
- Supports CEC one-touch-play and standby commands to power on/off the display.
- Supports auto IP/DHCP/Static IP.
- Supports Telnet/Multicast/HTTP/FTP.
- Ease to use with aegis IP Touch.
- Supports one HDMI output.
- Built-in Auto Scaler.
- Supports PoE.

Specification

Technical	
Input Video Ports	1 x LAN
Input Video Type	H.264/MPEG-4 AVC
Input Video Resolutions	Up to 1080p@60Hz
Output Video Ports	1 x HDMI
Output Video Type	HDMI
Output Video Resolutions	HDMI: Up to 1080P@60Hz IP Stream: Up to 1080P@60Hz
Output Audio Ports	3-Pin Phoenix Female Connector
Output Audio Format	Stereo, unbalanced
Control Method	Windows PC configurator, PF-IP Touch on iPad and IP control box
General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge)/ ±4kV (Contact discharge)
Power Supply	DC 12 V 1 A
Power Consumption	8.3 W
Device Dimension (W x H x D)	220 mm x 25 mm x 130.2 mm/8.7" x 1" x 5.1"
Net Weight	0.78 kg/1.72lb

PANEL INTRODUATION

Front Panel

No.	Name	Description
1	Power LED	• **On:** The device is powered on. • **Off:** The device is powered off.
2	Status LED	• **Solid on:** The device is connected to encoder and the video is displayed. • **Blinking:** The device is disconnected from encoder. • **Off:** The device is powered off or in the boot process.
3	ID Key	Press to display the device's IP address & MAC address as well as the linked encoders' MAC address on the screen.

Rear Panel

No.	Name	Description
1	DC 12V	Connect to the supplied 12V power adapter.
2	LAN (POE)	Connect to an Ethernet Switch for device control and management. This device can be powered by a PoE-enabled power source equipment such as a PoE switch via this port. **Note:** We would recommend that you power this device by using a power adapter or a PoE-enabled switch instead of both of them at the same time.
3	Audio Out	Connect to an audio receiver (e.g. amplifier, speaker) for de-embedded audio output.
4	HDMI Out	Connect to an HDMI display.
5	RS232	• **RS232-D:** connect this port to a PC for debugging PF-IPHW. • **RS232-P:** connect this port to a RS232 device such as a projector for bi-directional serial communication with a RS232 device on the IP control box side.
6	Reset Button	When AVP-CBS2VW-100 is powered on, use a pointed stylus to hold down the RESET button for five or more seconds, and then release it, it will reboot and restore to its factory defaults.

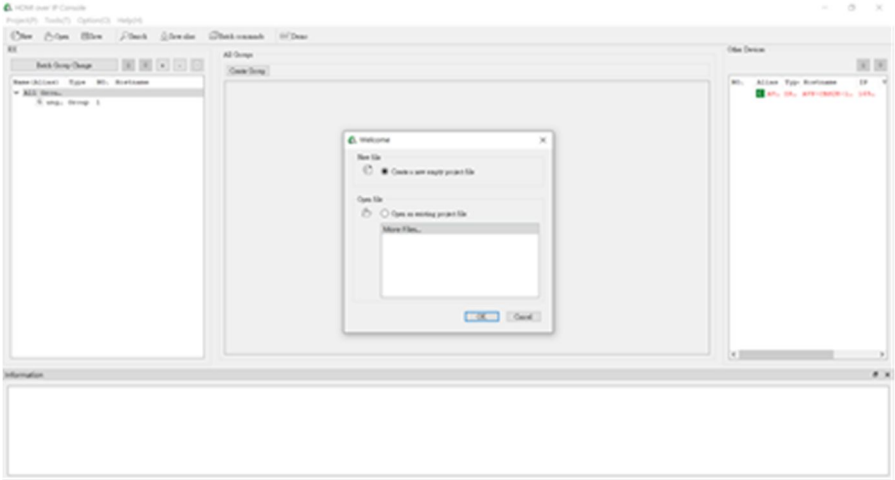
Windows Roaming Configuration

By using HDMI Over IP Console to operate the windows roaming of the AVP-CBS2VW-100. It provides up to 6 pictures to be overlapped and roamed on a single screen or a splicing screen TV wall.

Take following a 2x1 TV wall as an example to briefly instruct the steps of configuring window roaming.

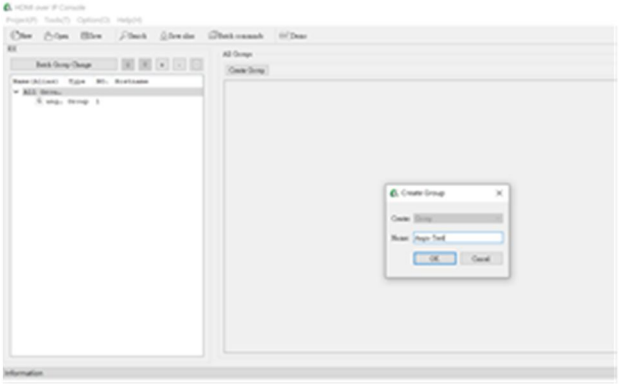
1. Double click **HDMIoverIPConsole.exe** on the computer (make sure that your computer, transcoder, AVP-CBS2VW-100 and CBS are all in the same network segment.)

Click “Search” for searching devices in the network segment.



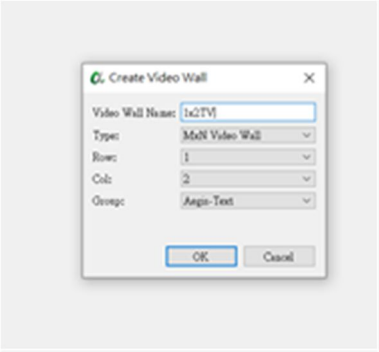
2. Create New Group 01

Select “All Groups” > Click the button to Create Group > Entre name “01” > Click OK



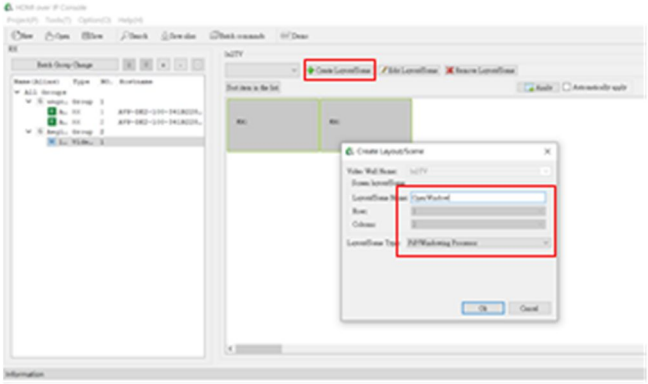
3. Create a Video Wall

Right Click on the group “01” and select Video Wall > Enter the Video Wall name as “VW1”, row 2, col 1 on the pop-up box > Click OK



4. Create a Layout/Scene

   Click on the button of “Layout/Scene” > Enter the name of Layout/Scene as “Windowing1” and select the type “PiP/Windowing Processor” > Click OK

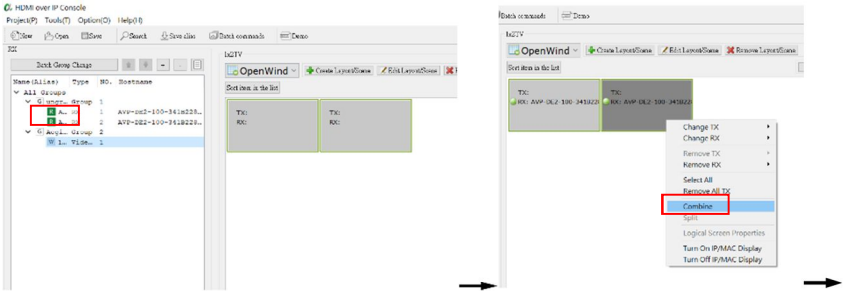


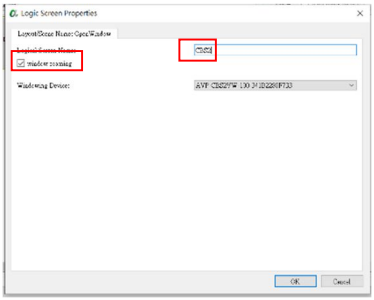
5. Configure RX for layout Windowing 1

1) Drag the 2 RX devices from the RX list to the layout area as shown in the picture below.

2) Create Splicing screen :

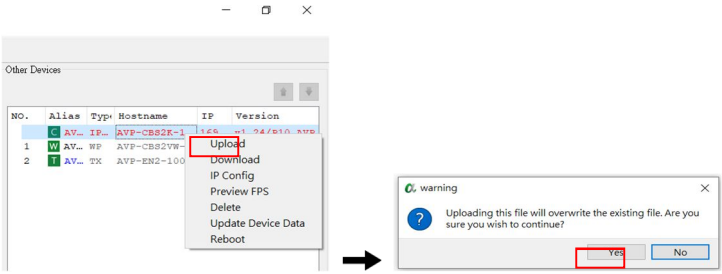
Drag right button of the selected two RX > Right-click “Combine” > Enter the logical screen properties name “CBS2” - Check the Window roaming box - Select “AVP-CBS2VW-100” device in the drop-down menu > Click OK





3) Save the configuration and upload to the control box AVP-CBS2K-101

Right-click “AVP-CBS2K-101” in Other Devices list > Click “Upload” > Click “OK” in the pop-up warning box

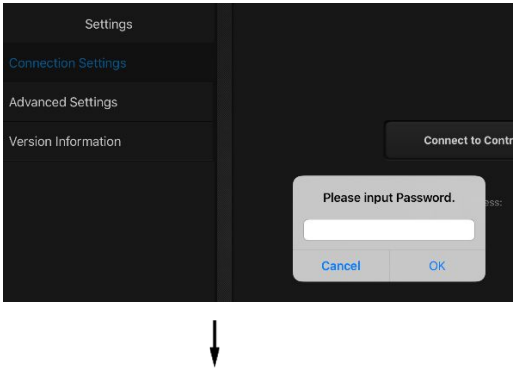


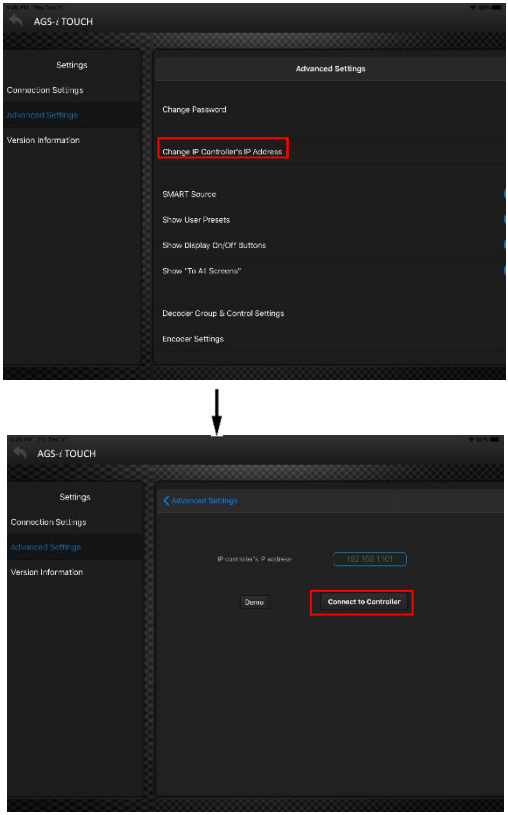
6. Configuration of AGS-i TOUCH on iPad

Connect iPad to wireless LAN and make sure it is in the same network segment as the control box AVP-CBS2K-101.

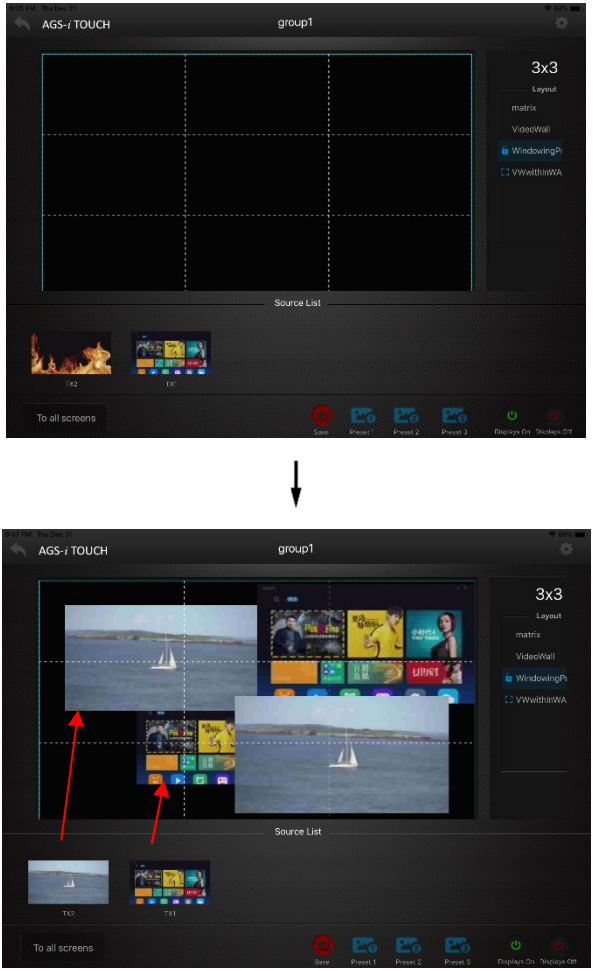
7. To operate AGS-i TOUCH software on your iPad:

   1) Click “Advanced Settings” on the settings page > Enter the password “admin” > Click “Change IP Controller’s IP Address” and enter AVP-CBS2K-101’s IP address > Click “Connect to Controller”




AGS-i TOUCH
Settings
Connection Settings
Advanced Settings
Version Information
Advanced Settings
Change Password
Change IP Controller's IP Address
SMART Source
Show User Presets
Show Display On/Off Buttons
Show "To All Screens"
Decoder Group & Control Settings
Encoder Settings
AGS-i TOUCH
Settings
Connection Settings
Advanced Settings
Version Information
Advanced Settings
IP controller's IP address
192.168.1.101
Demo
Connect to Controller

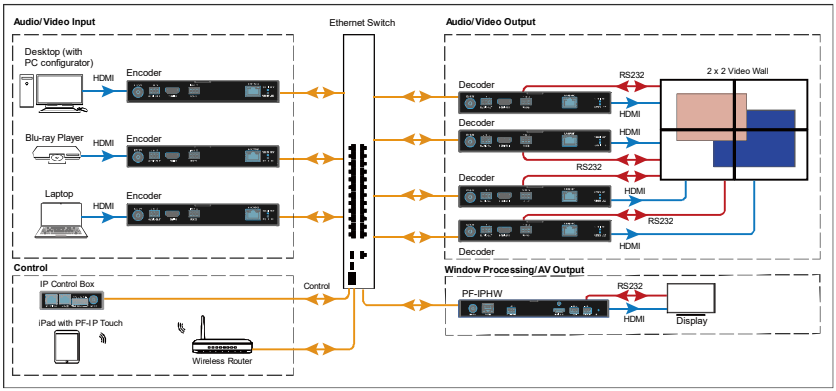
2) Enter Windowing1 layout page. Select any video source from the bottom of the input source list and drag it to any position in the upper screen area. It supports up to 9 video pictures for any size window roaming.



Hardware upgrade

Users can use MaintainTool software to upgrade the hardware of AVP-CBS2VW-100. Please refer to the MaintainTool User Guide for details.

CONNECTION DIAGRAM

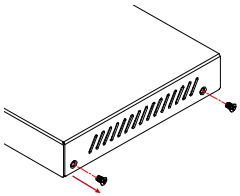


Installation

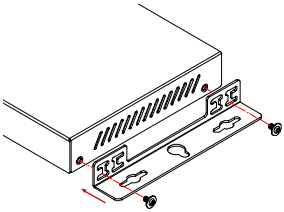
Note: Before installation, please ensure the device is disconnected from the power source.

Steps to install the device in a suitable location:

1. Remove the four screws from the two side panels.



2. Position and install the mounting brackets on the two side panels using the mounting screws provided in package.



3. Mount and secure the device to a surface or a suitable location with the mounting screws (provided by others).