

AVCIT DS2 Node

Intuitive Video Wall Control System over IP



DSII-HH



DSII-IN-4K



DSII-DD



DSII-OUT-4K

AVCIT DS2 node is compact video encoder, or video wall decoder for standalone display, single monitor of a LCD video wall, or one LED sending box of a LED wall; It is designed to be a node of IP video wall controller, and at the same time, to transmit FHD video over standard 1GB IT network, with low latency and high image quality.

What's New?

AVCIT DS2 node provides integrated, intuitive and visualized AV over IP Video Wall Matrix System for control room and meeting room, with a user experience of what you say is what you get. Compared to conventional command center solution by video wall matrix, features of AVCIT AV over IP:

- ✓ No standalone LED/LCD Video Wall Controller required
- ✓ Great image sync for LCD display and LED sending box with irregular resolution

Benefiting from its no-server architecture, any single encoder/decoder's bug will not affect the entire system, It will surely add much value on your design of mission critical command & control center.

Features of DS2 Node

Both 2K and 4K DS2 node have HDMI/DVI/VGA input and output port, bi-directional RS232/IR/IO port. User can have a visualized & Intuitive experience touch control on iOS+Win10 control tablet, by simply drag/drop/zoom in/out by mouse & finger dragging.

General

- ✓ No requirement of IGMP enabled at network switch
- ✓ Transmit high quality content over 1GB network only
- ✓ Simultaneously transmit up to 50 channels high quality content over 1GB network
- ✓ POE supported, no standalone PSU required for encoder/decoder
- ✓ Redundant power supply by both PSU and POE available

The logo for AVCIT, featuring the letters 'AVCIT' in a bold, black, sans-serif font. The letter 'i' is lowercase and has a red dot above it.

- ✓ Redundant signal transmission over fiber + copper available
- ✓ Native capability to decode 3rd party RTSP streams on video wall or KVM workspace
- ✓ Encoder with HDMI loop out function to local monitor
- ✓ Patented locking kit for HDMI, compatible with most of the HDMI cable, no need dedicated HDMI connector

DS2 video wall control

- ✓ No centralized video wall processor/server required
- ✓ No limit on the channels of input and outputs to video wall display
- ✓ Built-in video wall processor for LCD display and LED sending box, up to 16 FHD PIP/POP layers on single display
- ✓ Great performance of image sync for LCD display and LED sending box with irregular resolution
- ✓ Visualized drag/drop control by mouse & finger
- ✓ Dialog feature of re-confirm to recall custom-made video wall scenario/preset
- ✓ Annotation features by touch or pen
- ✓ Automatically video wall content sync to other video wall
- ✓ Real-time preview of content on iOS/Window control tablet, what you see is what you GET
- ✓ Layout Preview-Send Mode on control tablet
- ✓ Sources manager feature on control tablet
- ✓ Scheduled sources playing feature on control tablet
- ✓ Favorite folder feature on control tablet
- ✓ Build-in audio mixer up to 16 channel
- ✓ Soft KVM features on Window OS control UI
- ✓ Signal/source searching feature by keywords
- ✓ Grounding image layer features
- ✓ Free to configure any virtual video wall layout

Technical Specification

Interface Port						
Item	DS2 2K Version			DS2 4K Version		
Type	Encoder + Decoder 2-in-1			Encoder	Decoder	
Model#	DSII-HH	DSII-DD	DSII-VD	DSII-IN-4K	DSII-IN-4KD	DSII-OUT-4K
Video Input	HDMI	DVI-D	DVI-I	HDMI	1 x HDMI, 1 x DisplayPort	NA
Video Output	HDMI	DVI-I	DVI-I	HDMI loop	1 x HDMI loop out	HDMI+DVI+VGA
USB	NA					
RS232	1					
RS485	1					
IR & I/O	3 x IR or 3 x I/O					
Audio	1 in +1 out					
SFP(Optic)	NA			Optional		
PSU	5V3A (Optional)					
LAN(POE)	1					

Technical Parameters



Video Compression	H.265/264
Video Resolutions	Up to 3840x2160
Streaming Protocol	RTSP
Bit Rates	Configurable 4-20Mbps per streams
Copy Protection	HDCP 1.4, 3DES
Latency	Up to 31ms
Power Consumption	15-30W

Requirement of Ethernet Switch

Switching Capacity	≥ 598Gbps(more than 40 node)
Forwarding Performance	≥ 222Mpps(more than 40 node)
POE Feature	Required(or choose 3 rd party POE injector)
Recommend Model	48port: HUAWEI S5731-H48P4XC or S5730S-48C-PWR-EI, and max 3-4pcs to stack; For project that need more than 192 node, please use Core Switch, i.e. HUAWEI S6720S-26Q-EI-24S-AC or S6720-32C-SI-AC

Physical Parameters

DS2 2K/4K Version	<ul style="list-style-type: none"> ✓ DSII-HH ✓ DSII-DD ✓ DSII-VD 		<p>Dimension of node: 172x86x44mm NW: 0.5kg/node Carton of node: 205x195x85mm</p>
	<ul style="list-style-type: none"> ✓ DSII-IN-4K ✓ DSII-IN-4KD 		<p>Dimension of node: 220x138x29mm NW: 0.85kg/node Carton of node: 285x220x120mm</p>
	<ul style="list-style-type: none"> ✓ DSII-OUT-4K 		<p>Dimension of node: 220x138x29mm NW: 0.85kg/node Carton of node: 285x220x120mm</p>
	2/3U Rack Mount Ear		