DSIII-IN-4Kd

DSIII-OUT-4K

DSIII-HDMI-IN

DSIII-DH-OUT

AVCIT DSIII is compact KVM encoder/decoder, designed to transmit FHD or UHD video and HID over standard Gigabit Ethernet with low latency, low bit rates(4-20Mbps) and high image quality up to Chroma of 4:4:4. High-performance virtual KVM matrix can be configured over IP, It is a fully distributed and dynamic KVM over IP solutions; Benefiting from its no-server design, any single encoder/decoder's bug will not affect the entire system, It will surely reduce the risk of system, and add much value on your design of mission critical command & control center.

What's different?

AVCIT IP Based & KVM System provides all-in-one Command Center Solutions, which is combined functions of dynamic KVM, LED/DLP/LCD Wall Control and environment control. Compared to conventional command center solution by video wall matrix, there are following highlighting features:

✓ Realized 4:4:4 image chroma over 20 Mbps H.265 streams
✓ No standalone KVM server required
✓ No limit on the channels of computer and the connected monitor by one mouse + keyboard

Features of DSIII Node

DSIII node is KVM encoder and decoder, for operator's monitor at workspace or KVM sources, so that the operator can remotely access and control up to 8 computers/channels on one monitor simultaneously;

✓ Realized 4:4:4 image chroma over 20 Mbps H.265 streams**(Exclusive)**
✓ Access up to 8 computers/channels simultaneously, and have multi-viewing with multiple layout, on any monitor of your workspace**(Exclusive)**
✓ Support operation by both hot key and touch monitor**(Exclusive)**
✓ Audio decoding on a multi-viewing monitor automatically follow the mouse cursor**(Exclusive)**
✓ Support accessing workstation/server with multiple graphic card
✓ Support accessing most of the OS in the market, such as Window7/8/10, Mac, Linux, etc.

- ✓ Preview all source real-time at OSD, what you see is what you GET**(Exclusive)**
- ✓ Monitoring who have accessed to a server, and disconnect it with EXCLUSIVE permission**(Exclusive)**
- ✓ Drag/drop Control what to display on other's operator's monitor**(Exclusive)**
- ✓ Drag/drop/resize any sources on all his connected monitor**(Exclusive)**
- ✓ Control the video wall signal and preset at any workspace if permit**(Exclusive)**
- ✓ Push any remotely accessed content to video wall by hot key seamlessly**(Exclusive)**
- ✓ Fast projecting any content from one monitor to a connected monitor**(Exclusive)**
- ✓ 4 permissions levels available for operators, EXCLUSIVE, SHARE, VIEW ONLY and PRIVATE
- ✓ Cross Display Switching features, unlimited monitor connected by one mouse + keyboard**(Exclusive)**
- ✓ Video conference feature over the LAN by decoder**(Exclusive)**
- ✓ Native capability to decode 3rd party RTSP steams on video wall or workspace
- ✓ Operating & Maintenance system with User-friendly and Intuitively Interface to monitor system's health and manage all the devices. **(Exclusive)**
- ✓ Soft KVM features on Window OS control UI**(Exclusive)**
- ✓ Support 8K signals input from workstations which is with multiple graphic card, perfect image sync**(Exclusive)**
- ✓ Build-in audio mixer up to 16 channel**(Exclusive)**
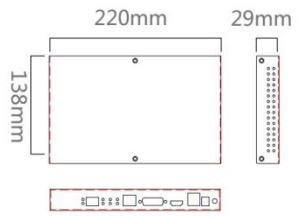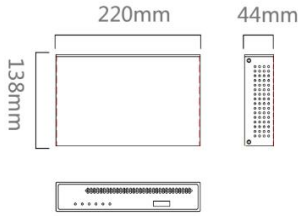- ✓ 4K/2K+UDP+USB+RS232/RS485/IR over CAT6e, up to 90m, Plug & Play

Technical Specification

Interface Port						
Type	4K Encoder		4K Decoder	2K Encoder		2K Decoder
Model#	DSIII-IN-4K	DSIII-IN-4Kd	DSIII-OUT-4K	DSIII-HDMI-IN	DSIII-DVI-IN	DSIII-DH-OUT
Video Input	2 x HDMI	1 x HDMI, 1 x DisplayPort	NONE	HDMI	DVI-D	
Video Output	NONE	1 x HDMI loop out	1 x HDMI, 1 x DVI	HDMI loop		DVI + HDMI
USB	1 x USB	1 x USB	2 x USB	1 x USB		2 x USB
RS232	1	1	1	1		
RS485	1	1	NONE	1		
IR & I/O	Totally 3	Totally 3	Totally 1	Totally 3		
Audio in/out	1 in +1 out	1 in +1 out	3.5mm jack	1 in +1 out		1 out
Ethernet	RJ45			RJ45		
SFP(Optional)	SFP Duplex LC Connectors			SFP Duplex LC Connectors		
Redundant Power	Optional			Optional		
Technical Parameters						
Video Compression	H.265/H.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					
Consumption	15-30W					
MTBF	173304.75 hours					

AVCiT

Requirement of Ethernet Switch	
Switching Capacity	≥ 598Gbps(more than 40 node)
Forwarding Performance	≥ 222Mpps(more than 40 node)
POE Feature	Required(or choose 3rd party POE injector)
Recommend Model	HUAWEI S5730-48C-PWR-SI-AC, 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			
Dimension/NW of node	✔ DSIII-IN-4K ✔ DSIII-IN-4Kd ✔ DSIII-OUT-4K ✔ DSIII-OUT-4Ka ✔ DSII-IN-4K ✔ DSII-IN-4Kd		220x138x29mm 0.7kg/node
	✔ DSII-OUT-4K		220x138x44mm 0.9kg/node
	2/3U Rack Mount Ear		
Carton	285x220x120mm per node		

System Topology