

DB-VWC2

H4-Series 4K Video Wall Controller



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Introduction

VWC2-H4 Series hardware based video wall controller is launched to provide 4K experience with extremely reliability by DigiBird, to fulfill the rigorous demand of mission critical projects.

With smoothly and seamlessly processing capability, H4-series is widely used to build 4K video wall in various venues like control room, command center.











Vision Experience

1. Flexible Windowing

Support display 4x windows, 4x layers, 8x layers or 16x layers (optional) on each display, each window is capable for zooming, roaming, overlay and PIP on the video wall.

2. Scrolling Text

To display notifications, emerging news, or slogans without requirement of third party CMS. Text font, color, and scrolling speed support to be defined by user's discretion.

3. Base Image

Support upload local file to deliver high resolution base image (up to 8K, 128M with JPEG or BMP format) on video wall.

4. Input Label

The input label serves to display input source name on video wall, which will help user to distinguish and operate the input source precisely.

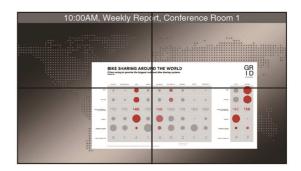
5. Output ID

Help to identify current output cabling between output port and display devices by indicating port ID on each display.

6. Video Wall Monitoring

Monitor real time video wall display via independent monitor with optional Confidence Monitoring Card.







7. IP Streaming

The controller is capable to decode H.264, H.265 IP stream from camera, and deliver the content to video wall without requirement of third party decoders. Capable to encode video signal to H.264 IP stream which can be integrated to the network.

8. Full 4K processing

Support up to 4K/60Hz input and output, VWC2-H4 is capable to build genuine 4K video wall.

High Reliability

Powerful Processing

- All 4K. 20 Gbps bandwidth per input slot and 80 Gbps per output slot, all the input and output channels support 4K.
- Up to 1600Gbps dedicated video bus.
- High reliability and real-time response, excluded PC-based vulnerabilities and latency.

Modular designed I/O cards, fans, and redundant PSUs, easy for maintenance and project expansion.

Versatile I/O interface, flexible for project configuration













Dual control cards, if one breakdown, the other will take over automatically, which enhance the reliability of controller.





Flexible Operation





1. Multiple Control Options

- GUI designed web-based control for PC, and free APP for iOS and Android based mobile devices.
- Providing access for third party devices control via RS232 or IP.

2. Preview

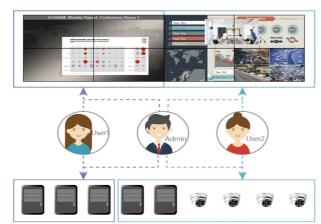
Preview all input sources content and virtual video wall display via browser in real-time.

3. Status Monitoring

- Auto detect current video wall configuration.
- Auto detect active input source and output.
- Monitor cards temperature and power consumption. Track firmware version and serial number, etc.

4. Specified User Access

Administrator is capable to authorize certain users specific access for video wall management, i.e. specific input, display area and functions, etc.





Flexible Operation



5. Multiple Video Wall Management

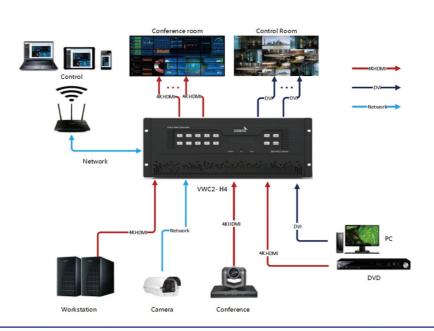
- Single controller is capable to manage up to 4x video walls with different resolution and display devices, i.e. LCD. LED and DLP.
- Single unit controller is capable to manage unlimited quantity video wall groups with same resolution.

6. Remote Standby & Wakeup

Remotely standby or wakeup by one-click operation.

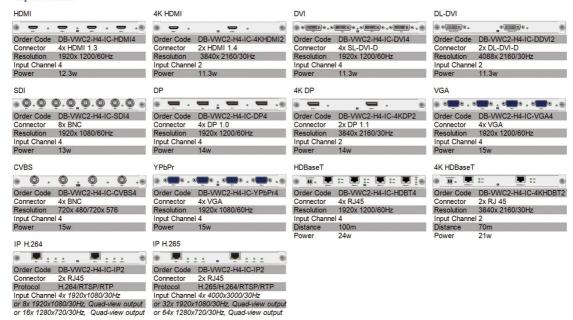


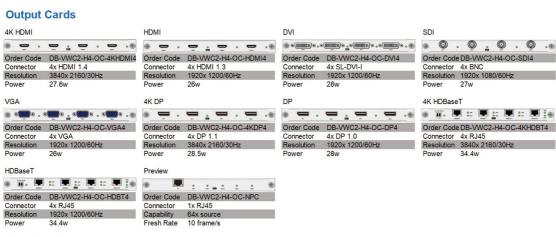
System Diagram



Specification

Input Cards





Function Cards



Specification

Chassis

Order Code:	Size:	Input Cards	Output Cards	Control Card	СМС	PSU	Power (W)	Net Weight	Net Dimensions (LDH mm)
DB-VWC2-H4-FR4K	4U	8	3	1+1	1	1+1	41	9.8 kg	440 x 325 x 178
DB-VWC2-H4-FR6K	6U	14	5	1+1	1	1+1	56	12.6 kg	440 x 325 x 266
DB-VWC2-H4-FR8K	8U	15	10	1+1	1	1+1	170	16.8 kg	440 x 320 x 355
DB-VWC2-H4-FR14K	14U	29	10	1+1	1	1+3	170	29.4 kg	440 x 460 x 622
DB-VWC2-H4-FR19K	19U	37	20	1+1	1	1+3	220	39.9 kg	440 x 460 x 842

Control		General				
S232 D9 Female Connector		Operating Temperatu 0° to +40° C				
TCP/IP, RJ45 Connector		Storage Temperature minus 10° to 70° C				
Video Processing		Operating Humidity	10% to 85%, Non-condensing			
Hardware Structure	Yes	Storage Humidity	10% to 90%, Non-condensing			
Parrallel Processing	Yes	MTBF	50,000 hrs			
Digital Sampling	24bit					
Color Sample	4:4:4					
Resolution	Up to 3840×2160@30 input					
Data Rate	20Gbps per input slot, 80Gbps per output					

- Control Card: all chassises are populated with 1x default control card, redundant control card is availabel to purchase.
 PSU: all chassises are populated with 1x default PSU, redundant PSU is available to purchase.