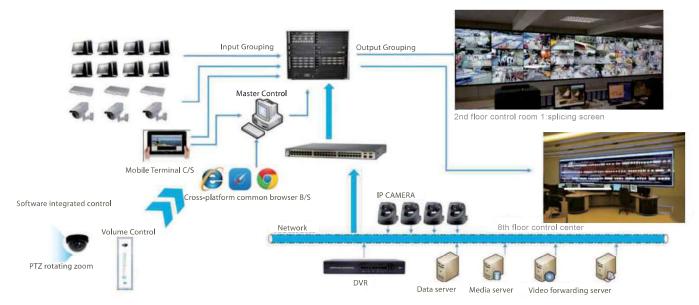
Wall controller

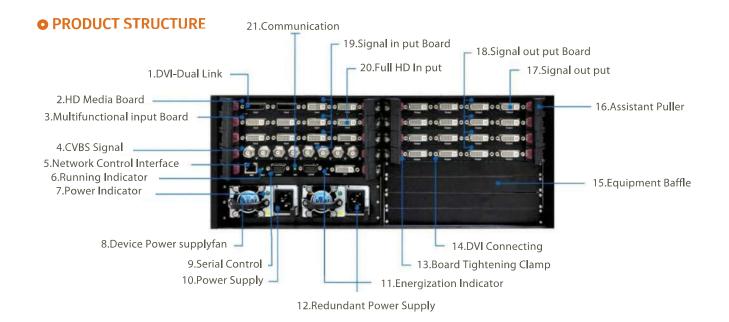
ORVW (Orion video wall controller) Series

Orion's brand new video wall controller, ORVW series is professional image processing product based on 6.25G processing chip performing fast speed, professional video wall control, IP-Video decoding and various I/O inferface supporting 4K resolution with long term reliability.

DIAGRAM



- Input : VGA/ DVI/ HDMI/ SDI/ CVBS/ Duallink-DVI/ IP-Video/ DP/ HDBaseT/ Fiber
- Output : DVI/ HDMI/ VGA/ SDI/ 4K HDMI/ HDbaseT/ Fiber
- Control: serial, network, third-party control system, ipad etc.





FEATURES

- Pure-hardware FPGA Array, modular design, 6.25G/s base exchange processing speed;
- Support hot-swappable for I/O modules, control modules, redundant power supply. Easy to upgrade and maintenance;
- Support VGA/DVI/HDMI/CVBS/DP/SDI/HDbaseT/IP-Video/Fiber input sources and VGA/DVI/HDMI/SDI/CVBS/HDbaseT/Fiber output;
- Support 4K DP/HDMI/Dual-link DVI input and 4K HDMI output;
- Support VGA/DVI/HDMI sources seft-adaption on single input card;
- Support HDCP2.0 for HDMI/DP input and output;
- Support opening at least 8 windows on each two layouts;
- Support up to 16 video wall groups control on single controller and work with variety of display terminals such as LCD, LED, DLP, projector;
- Support layouts management, up to setup and display 255 layouts;
- Integrated with hybird matrix function, output windows switching, friendly to system integrator;
- Support input source previewing and monitoring(refresh rate 24-30Hz);
- Variety of control methods such as RS232, Network and compatible with third party control system;
- Support multi-user control management, software can be set through the operation authority, according to the authority level to develop different operating functions, different levels, different operating privileges, and can be set at any output authority range;
- B/S and C/S dual mode visualization control platform, support roaming, overlay, zoom in/out, multi-windowing, switch, overlay, picture-in-picture, signal clip and a variety of display modes such as split screen, full screen and combination screen;
- Support EDID, customize the output resolution according to the physical resolution of the display system;
- Advanced image decoding technology, compatible with a number of manufacturer's IPC signal and seamless access with variety resolutions such as 1080P, 720P, etc.

RELEVANT FUNCTION INDICATION

















































o INPUT CARDS







Quad-Channel HDBaseTInput Card



Quad-ChannelVGAInput Card



Quad-Channel SDI Input Card





Quad-Channel Fiber Input Card



Quad-Channel HDMI Input Card



8-Channel CVBS Input Card



Dual-Channel4K HDMI Input Card



Dual-Channel IPInput Card

OUTPUT CARDS



Quad-Channel DVI Output Card



Quad-Channel SDI Output Card



Quad-Channel Fiber Output Card



Quad-ChannelVGAOutput Card



Quad-Channel CVBS Output Card



Dual-Channel 4K HDMI Output Card



Quad-Channel HDMI Output Card



Quad-Channel HDBaseTOutput Card

• CONTROL CARDS



Control Card A



Control Card B (With Signal Preview)

• REDUNDANT PSU







• SPECIFICATIONS

Device size	ORVW-4U		ORVW-8U		ORVW-16U		ORVW-24U		ORVW-32U	
	Input	Output	Input	Output	Input	Output	Input	Output	Input	Output
Slots	4	4	9	8	20	20	40	40	80	80
Redundant PSU	1+1		1+1		2+2		2+2		4+4	

• SYSTEM PARAMETERS

Product hardware					
information	System structure	Pure hardware FPGA architecture			
	Start up	≤15s			
	Operating system	No CPU and operating system			
	Board type	Pure hardware pluggable, hot-swappable structure			
Input/output signal	Input type	VGA, DVI, HDMI, DP, CVBS, SDI, HDBaseT, IP-Video, Fiber			
	Input channel	1080P up to 320 channel, 4K up to 80 channel			
	Output type	VGA, DVI, HDMI, CVBS, SDI, HDBaseT, Fiber			
	Output channel	1080P up to 320 channel, 4K up to 80 channel			
Image processing	Display mode	Roaming, overlay, zoom in/out, multi-windowing, layout switch, PIP, full screen and combination screen			
	Input resolution	Single channel 4K: duallink DVI, HDMI, DP			
	Layout/signal switching time	Millisecond-level switching			
	Number of signal copy	Up to 16			
	Max input/output resolution	3840×2160			
	Single-screen window	At least 8 windows on each two screens			
	Hot-swappable	Support			
	Power supply configuration	N+1 redundant power supply structure			
	Signal preview	Support			
Control function	Control structure	Software/ hardware			
	Maximum layouts	255			
	Control method	RS232/ ethernet and compatible with third party control system			
	Management mode	Browser/ sever, client/ server			
	Matrix control	Supports digital/ analog matrix linkage control			
Stability	Safety	Hardware structure, no virus interference			
	MTBF	>50.000 hrs			
	Continuity	365 days, 7×24 hours operation			
Working environment	Operating temperature	-15~60℃			
	Storage temperature	-30~75℃			
	Operating humidity	10 to 90% without condensation			
	Storage humidity	5~95% without condensation			
	Redundant PSU	550W redundant PSU, 100-240VAC			
	Software	Windows 7/8/10/11 systems			

• MODULE PARAMETERS

Image processing module	Parallel computing chip FPGA	Monolithic capacity: 70000 LE
	Serial computing chip DSP	Monolithic speed: 6.25 G/s
System bus scale	System bus scale single channel LVDS speed	4G/S
	4U device	144-way×4G/S
	8U device	288-way×4G/S
	16U device	576-way×4G/S
	24U device	1440-way×4G/S
	32U device	2880-way×4G/S
Image display capability	Single output channel display	128M
	Output video memory	N×128M, N is the number of output channels
	Display unit arrangement	A rectangle or part of a rectangle.
	Output resolution	800×600 to 3840×2160
	Color depth	24 bits
	Output signal	DVI-I connector, compatible with analog and digital output
Video signal input	Composite video CVBS	Interface: BNC, a group consisting 8 interfaces
		Format: NTSC, PAL, SECAM adaptive
	Component video YPbPr	Interface: BNC, a group consisting 4 interfaces
		Resolution: 480-1080P
	Serial Digital Video SDI	Interface: BNC, a group consisting 4 interfaces
		Resolution: SDI, HD-SDI, 3G-SDI
RGB input	Interface	HD15 needing DVI-HD15 Interface conversion, a group consisting 4 interfaces
	Resolution	800×600 to 1920×1200, special resolutions can be added
	Clock	170M/S
Single-linkage DVI input	Interface	DVI-I, a group consisting 4 interfaces
	Resolution	800×600 to 1920×1200, special resolutions can be added
	Clock	165M/S
Dual-linkage DVI input	Interface	DVI-D, a group consisting 2 interfaces
	Resolution	800×600 to 4096×1536, special resolutions can be added
	Clock	2×165M/S
HDMI input	Interface	HDMI, a group consisting 4 interfaces
	Resolution	800×600 to 1920×1200, sapecial resolutions can be added
	Clock	165M/S
DP input	Interface	DP, a group consisting 4 interfaces
	Resolution	800×600 to 1920×1200, special resolutions can be added
	Clock	165M/S

4K-HDMI/DP input Interface HDMI2.0/DP, a group consisting 2 interfaces Resolution 3840×2100@60 Hz LP-Video network decoding input Interface R.145, a group consisting 2 interfaces Resolution CIF to 1920×1200, special resolutions can be added Decoding capability 36×1080P, 72×720P, 144×D1 Network speed Gigabit ethemet HDBaseT input and output Interface Resolution CIF to 1920×1200, special resolutions can be added Transmission medium 6 categories of network cable Transmission medium 770/160m transmission distance optional Single-core optical fiber input and output Interface SFP multimode/ LC interface, a group consisting 4 interfaces Single-core optical fiber input and output Maximum resolution 1920×1200, or special resolution Transmission medium 1920×1200, or special resolution Single-core optical fiber input and output Interface DVI output Interface D					
P-Video network decoding input Interface	4K-HDMI/DP input	Interface	HDMI2.0/DP, a group consisting 2 interfaces		
In-Video network decoding input Resolution Decoding capability Resolution Decoding capability Resolution Decoding capability Resolution Decoding capability Resolution Resolution CIF to 1920×1200, special resolutions can be added RJ45, a group consisting 4 interfaces CIF to 1920×1200, special resolutions can be added RJ45, a group consisting 4 interfaces CIF to 1920×1200, special resolutions can be added Transmission medium Transmission distance Resolution Transmission distance SFP multimode/ LC interface, a group consisting 4 interfaces Maximum resolution Transmission medium Transmission medium Transmission distance DVI output Interface Resolution Transmission distance DVI-D, agroup consisting 4 interfaces Resolution Signal type DVIHD Digital Video Signal Clock 165M/S VGA output Interface Resolution Resolution Signal type VGA analog video signal Clock 165M/S HDMI output Interface Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Signal type DVI HD digital video signal Clock 165M/S HDMI output Interface Resolution Signal type DVI HD digital video signal Clock Resolution Resolu		Resolution	3840×2160@60 Hz		
Resolution Decoding input Resolution Decoding capability Resolution Decoding capability Resolution Resolution CIF to 1920×1200, special resolutions can be added 36×1080P, 72×720P, 144×D1 Resolution CIF to 1920×1200, special resolutions can be added output Resolution CIF to 1920×1200, special resolutions can be added CIF to 1920×1200, special resolution CIF to 1920×1200, special resolutions can be added CIF to 1920×1200, special resolution CIF to 1920×1200, special resolutions can be added CIF to 1920×1200, special resolu		Clock	2×165M/S		
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Network speed Gigabit ethernet		Resolution	CIF to 1920×1200, special resolutions can be added		
HDBaseT input and output Resolution CIF to 1920×1200, special resolutions can be added Transmission medium Fransmission distance Transmission distance Transmission distance Transmission distance Transmission distance Transmission distance Transmission distance SFP multimode/ LC interface, a group consisting 4 interfaces Maximum resolution Transmission medium Single-core optical fiber, single-mode/ multimode optional Transmission medium Transmission distance DVI-D, agroup consisting 4 interfaces Resolution Signal type DVI-D, agroup consisting 4 interfaces Resolution Signal type DVI-D Digital Video Signal Clock 165M/S VGA output Interface Resolution Signal type VGA analog video signal Clock 165M/S HDMI output Interface Resolution Signal type DVI HD digital video signal Clock 185M/S SDI output Interface Resolution Signal type DVI HD digital video signal Clock 185M/S SDI output Interface Resolution Signal type DVI HD digital video signal Clock 185M/S SDI output Interface Resolution Signal type DVI HD digital video signal Clock 185M/S SDI output Interface Resolution Support SD/HD/3G-SDI Signal type Video output CVBS Resolution D1 Signal type CVBS composite video signal, N/P adaptive HDMI type A, a group consisting 2 interfaces Resolution Signal type CVBS composite video signal, N/P adaptive HDMI type A, a group consisting 2 interfaces Resolution Signal type CVBS composite video signal, N/P adaptive HDMI type A, a group consisting 2 interfaces Resolution Signal type HDMI type A, a group consisting 2 interfaces Resolution Resolution Signal type HDMI type A, a group consisting 2 interfaces Resolution Signal type HDMI type A, a group consisting 2 interfaces		Decoding capability	36×1080P, 72×720P, 144×D1		
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Signal type HD SDI uncompressed video signal Video output CVBS Interface Resolution D1 Signal type CVBS composite video signal, N/P adaptive HDMI output Interface Resolution 3840×2160 Signal type HDMI2.0	SDI output	Interface	BNC, a group consisting 4 interfaces		
Video output CVBS Interface Resolution D1 Signal type CVBS composite video signal, N/P adaptive HDMI type A, a group consisting 2 interfaces Resolution 3840×2160 Signal type HDMI2.0		Resolution	Support SD/HD/3G-SDI		
Resolution D1 Signal type CVBS composite video signal, N/P adaptive HDMI type A, a group consisting 2 interfaces Resolution Signal type HDMI2.0		Signal type	HD SDI uncompressed video signal		
Signal type CVBS composite video signal, N/P adaptive HDMI type A, a group consisting 2 interfaces Resolution Signal type HDMI2.0	Video output CVBS	Interface	BNC, a group consisting 8 interfaces		
4K-HDMI output Interface HDMI type A, a group consisting 2 interfaces Resolution 3840×2160 Signal type HDMI2.0		Resolution	D1		
Resolution 3840×2160 Signal type HDMI2.0		Signal type	CVBS composite video signal, N/P adaptive		
Signal type HDMI2.0	4K-HDMI output	Interface	HDMI type A, a group consisting 2 interfaces		
		Resolution	3840×2160		
Clock 2×165M/S		Signal type	HDMI2.0		
		Clock	2×165M/S		



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