





VK-S Series

VK-S Series video wall controller is new generation professional video image processing product which is based on the development of multi-windows, ultra-high definition and visual display control technology. Compare to other video wall controller in the market, VK-S series has upgraded its system capacity and use 10G base exchange processing chip, so that there is a significant advantage on the processing speed and professional display control. Meanwhile, VK-S series controller supports multiple services, density of I/O interfaces and long term reliability. It is an all-in-one product which has 4K@30Hz input processing, IP-Video Decoding, Content preview, Scrolling text, Scene management, Log management, User management and other advanced applications to meet a variety of professional system application requirements.

	ā ÷ Que	
VK-S Series		
	10-10-10-10-10-10-10-10-10	
		j

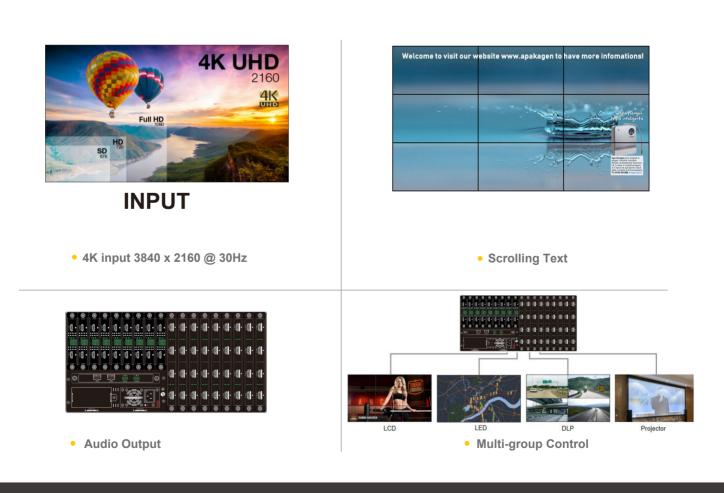
VK-S Series

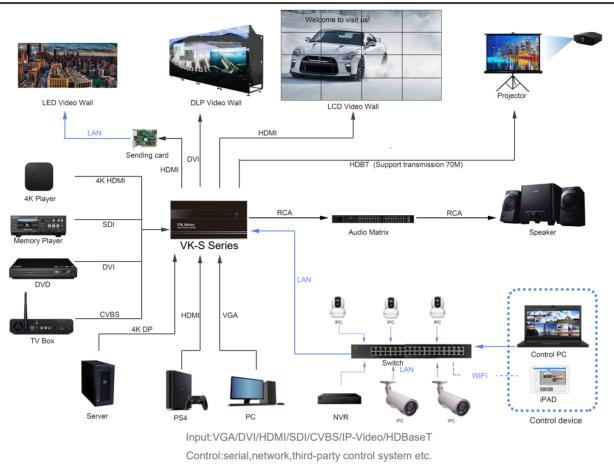
Video Wall Controller



- Pure-hardware FPGA Array, modular design, parallel video processing hardware systems;
- Hot-swappable for I/O modules, control modules, redundant power supply, easy to upgrade and maintenance;
- VGA, DVI, HDMI, CVBS, DP, SDI, HDbaseT, IP-Video input sources and DVI, HDMI, HDbaseT output;
- 4K@30Hz HDMI input, HDCP2.0 for HDMI input and output;
- Opening 2/4 windows on each one screen;
- Up to 4 video wall groups control on single controller and work with variety of display terminals such as LCD, LED, DLP, projector;
- Scene management, including save, switch, recall, recycle;
- Input source previewing and video wall content monitoring;
- Variety of control methods such as RS232, Network and compatible with third party control system;
- 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;
- C/S visualization control platform, support roaming, overlay, zoom in/out, multi-window switching;
- Scrolling text to show news, notifications, or slogan;
- Support background image;
- Picture-in-picture, signal clip and a variety of display modes such as split screen, full screen and combination screen;
- EDID, customize the output resolution according to the physical resolution of the display system;
- Advanced image decoding technology, compatible with a number of manufacturers' IPC signal and seamless access with variety resolutions such as 1080P, 720P, etc.

NELEVANT FUNCTION INDICATION

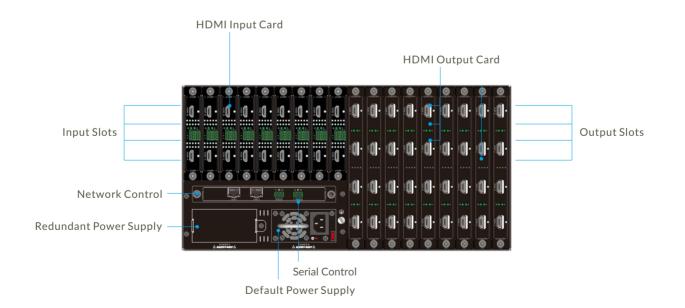




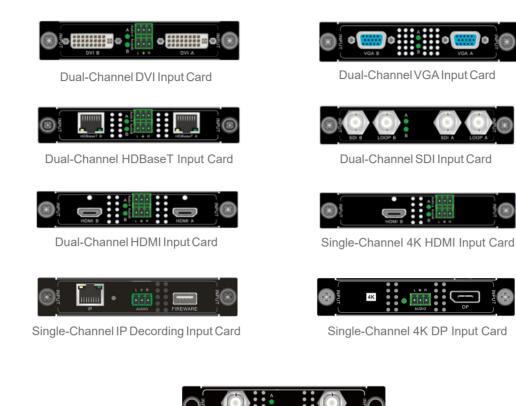
Output:DVI/HDMI/HDBaseT;

PRODUCT STRUCTURE

DIAGRAM

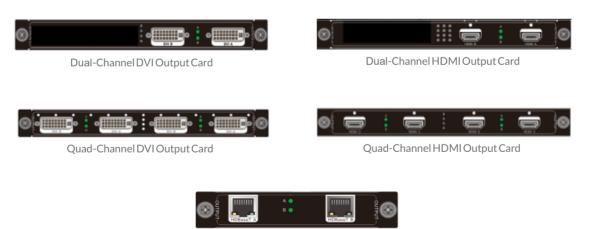






Dual-Channel CVBS Input Card

OUTPUT CARDS



Dual-Channel HDBaseT Output Card

SPECIFICATIONS

Device size	4U		5U		9U		13U	
	Input	Output	Input	Output	Input	Output	Input	Output
2 Windows / Screen	8	18	18	36	36	36	72	72
4 Windows / Screen	8	9	18	18	36	18	72	36

Product Hardware Information	System structure	Pure hardware FPGA architecture	
	Start up	<8s	
	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 72 channels, 4K up to 36 channels	
	Output type	DVI,HDMI,HDBaseT	
	Output channel	1080P up to 72 channels	
Image Processing	Display mode	Roaming, overlay, zoom in/out, multi-windowing, scene switch, PIP, full screen and combination screen	
	Scene/Signal switching time	Millisecond-level switching	
	Number of signal copy	Up to 16	
	Max input resolution	3840*2160@30Hz	
	Max output resolution	1920*1200@60Hz	
	Single-screen window	2/4 windows on one screen	
	Hot-swappable	Support	
	Power supply configuration	N+1 redundant power supply structure	
	Signal preview	Support	
	Running text	Support	
Control Function	Control structure	Software /Hardware	
	Maximum scenes	32	
	Control method	RS232/Network and compatible with third party control system	
	Management mode	C/S	
Stability	Safety	Hardware structure, no virus interference	
	Continuity	365 days, 7x24 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	

iSEMC

Beijing Lema Technology Co.,Ltd. Tel:+86 10 64912688 | Fax:+86 10 64912688 info@isemc.com | www.isemc.com