

# VKL

## Video Wall Controller

Powerful Video and Image Processing Device





# VKL

VKL 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, VKL supports ultra-high single-channel bandwidth, reaching 6.5G,so that there is a significant advantage on the processing speed and professional display control. Adopt RS232 +LAN interface control, and configure DVI and HDMI input/output boards,support up to 128 scene save and recall,to meet a variety of professional system application requirements.



VKL

Video Wall Controller

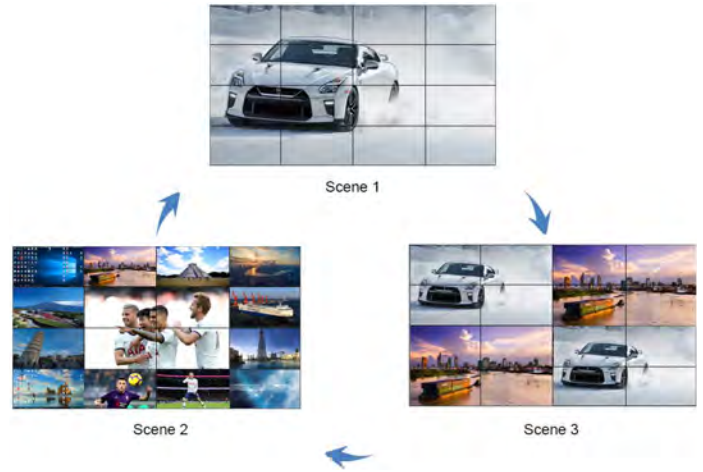
## FEATURES

- Pure-hardware FPGA Array, modular design, parallel video processing hardware systems;
- Hot-swappable for I/O modules, control modules, easy to upgrade and maintenance;
- DVI , 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, DLP, projector;
- Multiple controlling device, can control by both web control and PC software, support roaming, overlay, zoom in/out, multi-window switching;
- Input source previewing and video wall content monitoring;
- Scene management, including save, switch, recall, recycle, Maximum support 128 scenes;
- 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;
- Supports window opening pre-layout, which does not affect the display of the splicing screen;
- Scrolling text to show news, notifications, or slogan, scroll speed and direction can be selected;
- 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;
- Each input source can support 4 cutting methods

## RELEVANT FUNCTION INDICATION



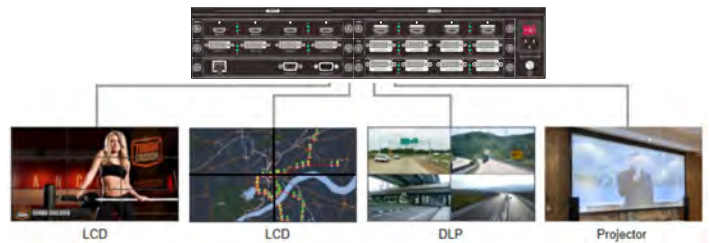
• Signal Clip



• Scene Switching



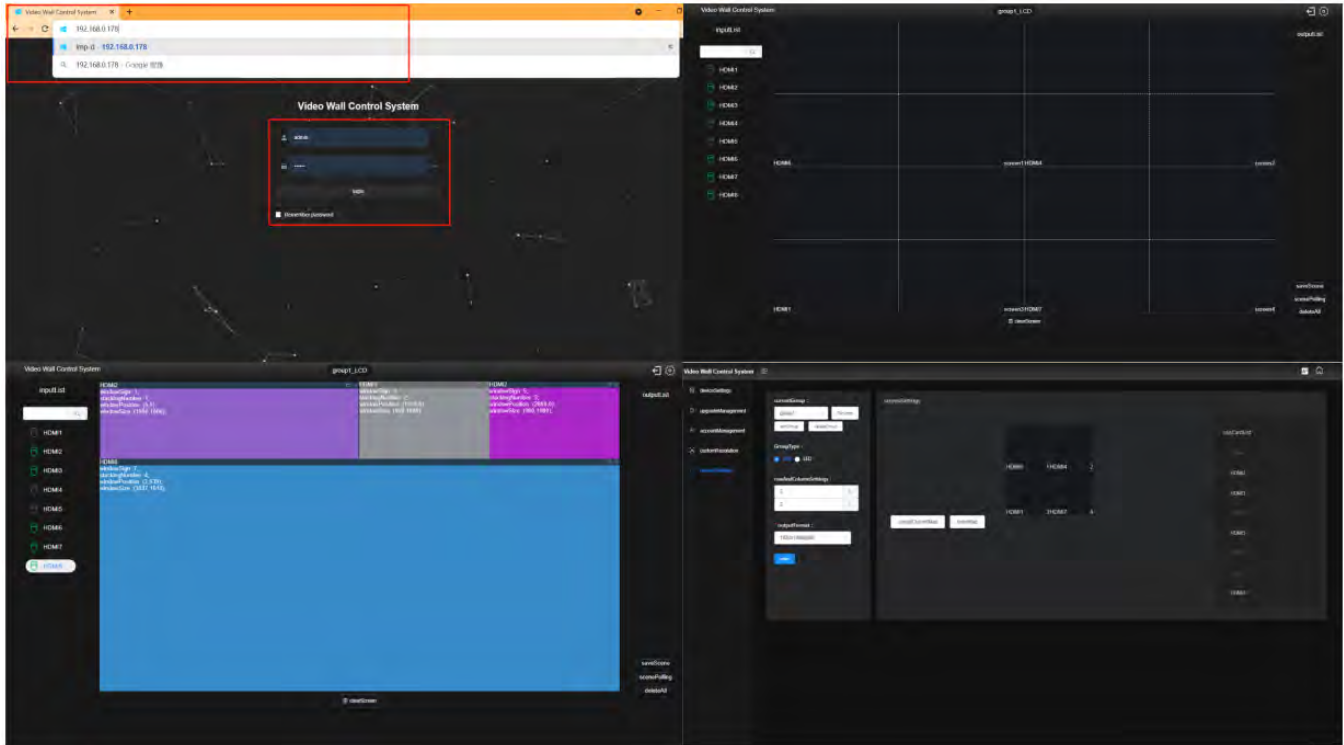
• Third-party Control



• Multi-group Control

## WEB CONTROL

VKL comes with new feature of Web Control. The Web Control provides the properties, methods, and events that are common to PC software control. You can control the appearance and behavior of a Web Control by IP address and can control from multiple devices.



## PREVIEW FUNCTION

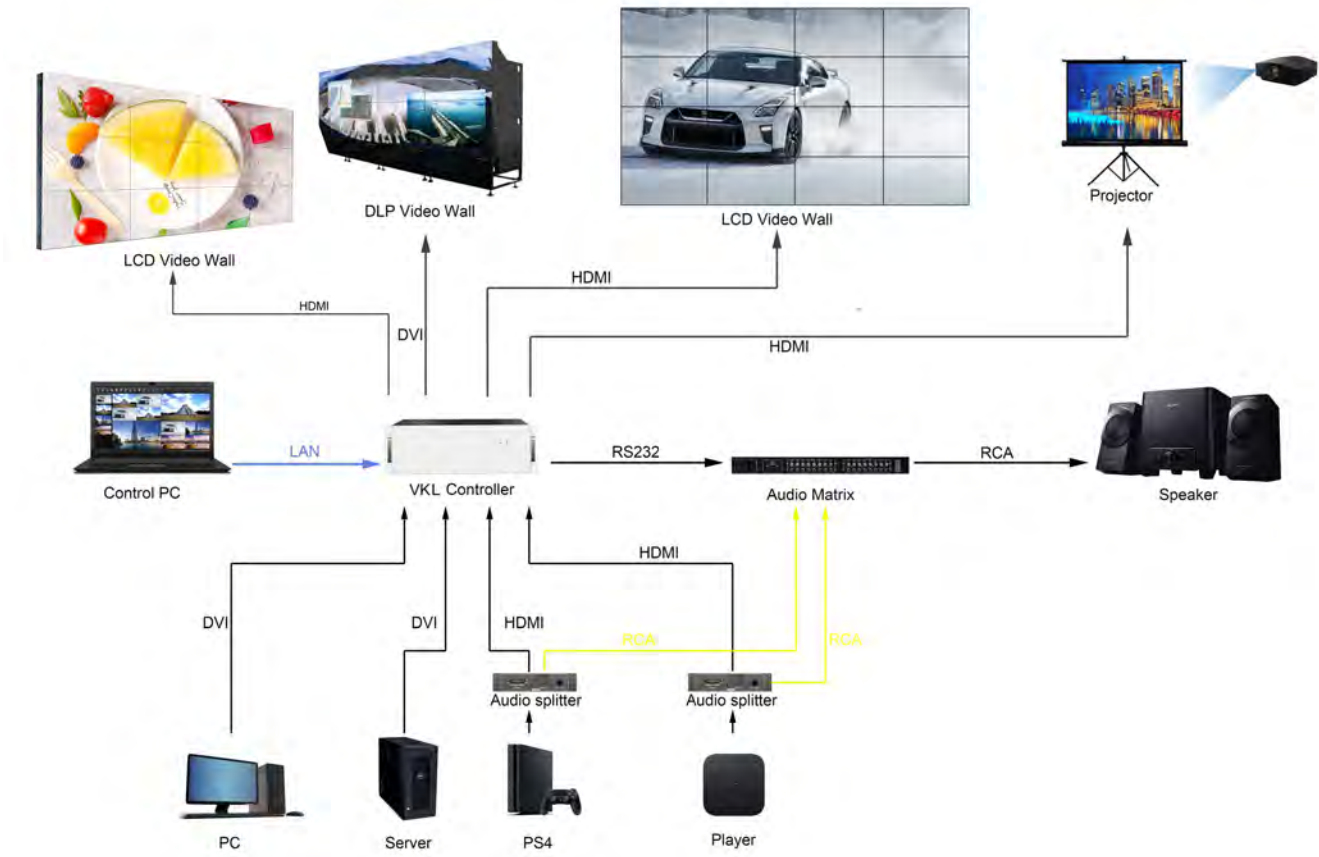


Control PC



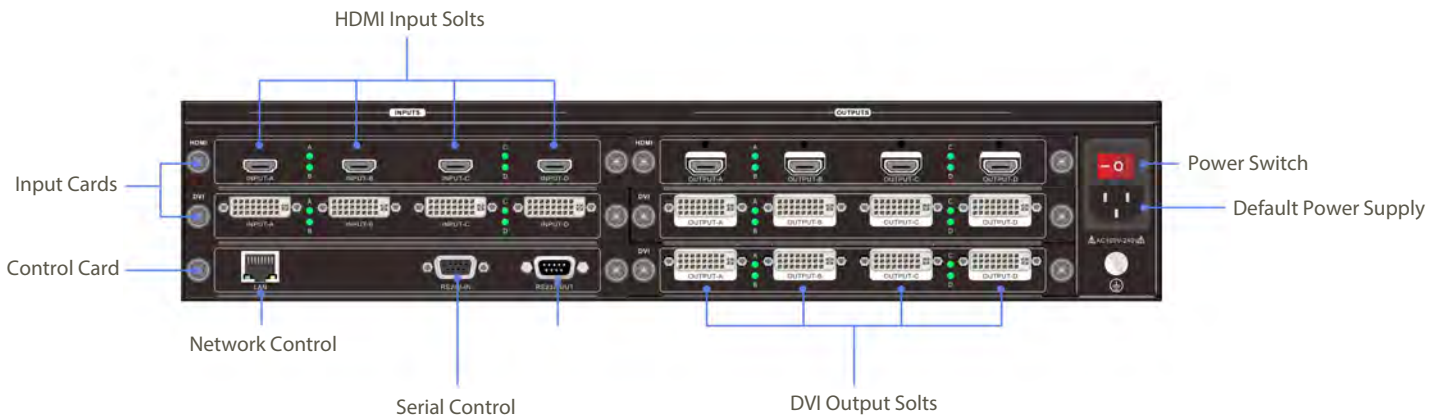
Videowall

# DIAGRAM



Input:DVI/HDMI | Output:DVI/HDMI  
 Control:serial,network,third-party control system etc.

# PRODUCT STRUCTURE



## INPUT CARDS

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Quad-Channel DVI Input Card



Quad-Channel HDMI Input Card

## OUTPUT CARDS

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Quad-Channel DVI Output Card



Quad-Channel HDMI Output Card

# SPECIFICATIONS

Device size	2U		3U		6U	
	Input	Output	Input	Output	Input	Output
2 Windows / Screen	8	12	20	16	36	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	DVI, HDMI
	Input channel	1080P up to 36 channels
	Output type	DVI, HDMI
Image Processing	Output channel	1080P up to 36 channels
	Display mode	Roaming, overlay, zoom in/out, multi-windowing, scene switch, PIP, full screen and combination screen
	Scene/Signal switching time	Millisecond-level switching
	Multiple group	Up to 04
	Max input resolution	1920*1200@60Hz
	Max output resolution	1920*1200@60Hz
	Single-screen window	2/4 windows on one screen
	Hot-swappable	Support
	Control structure	Software /Hardware
	Maximum scenes	128
	Control method	RS232/Network and compatible with third party control system
Control Function	Signal preview	Support(Optional)
	Running text	Support(Optional)
	Power supply configuration	N+1 redundant power supply structure
	Management mode	C/S, WEB
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

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