# 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.
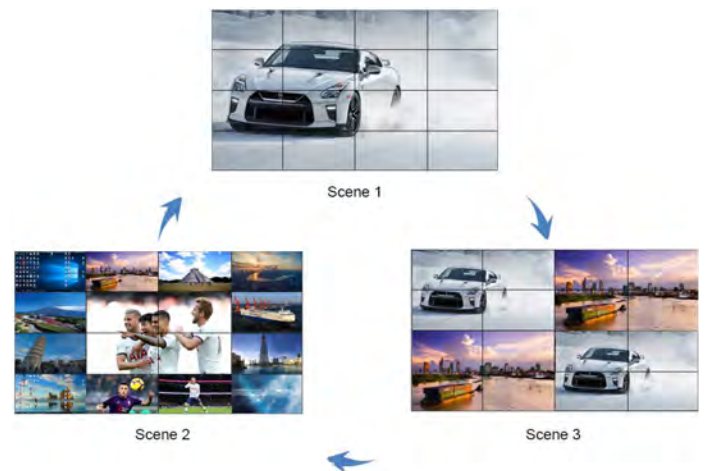


**VKL**

## 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 and redundant power supply on 3U/6U/12U chassis;
- 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 cropping methods

# RELEVANT FUNCTION INDICATION



● **Signal Clip**



Scene 1
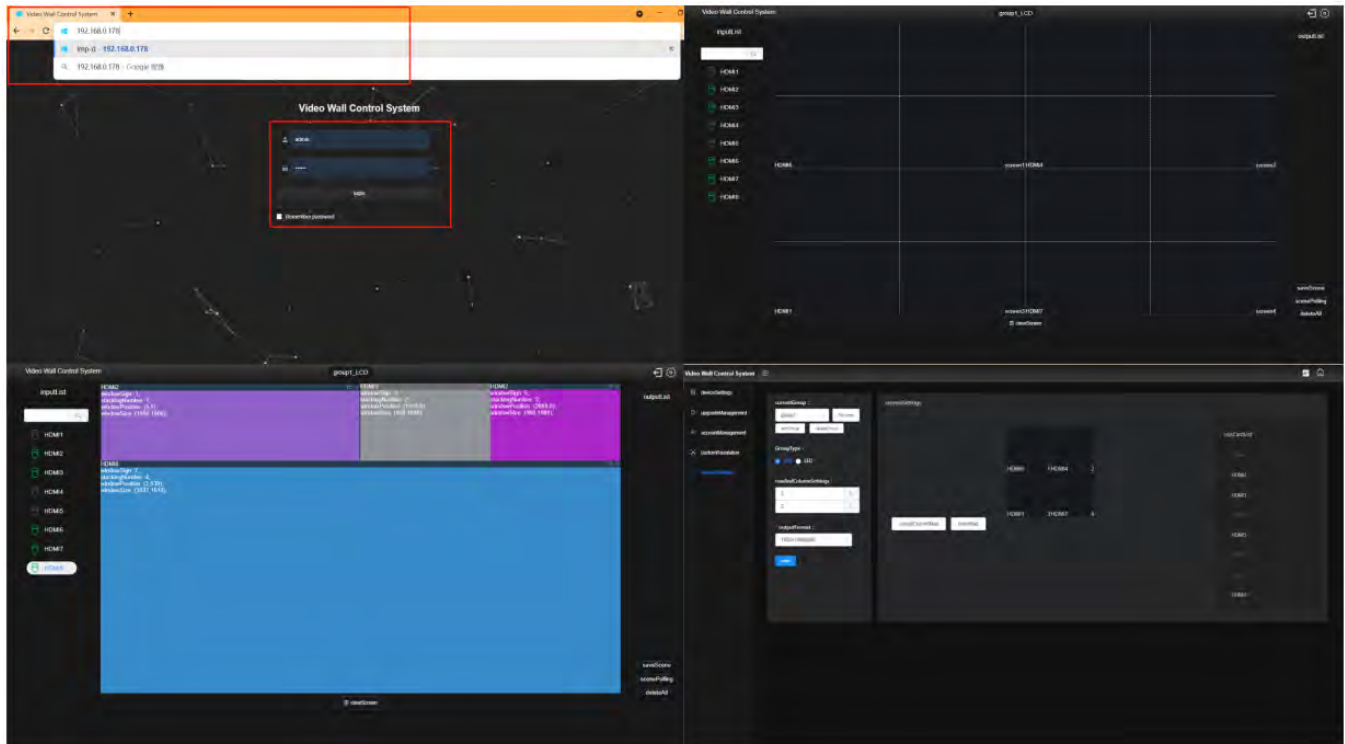
Scene 2

Scene 3

● **Scene Switching**



● **Third-party Control**



LCD　　　LCD　　　DLP　　　Projector

● **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.
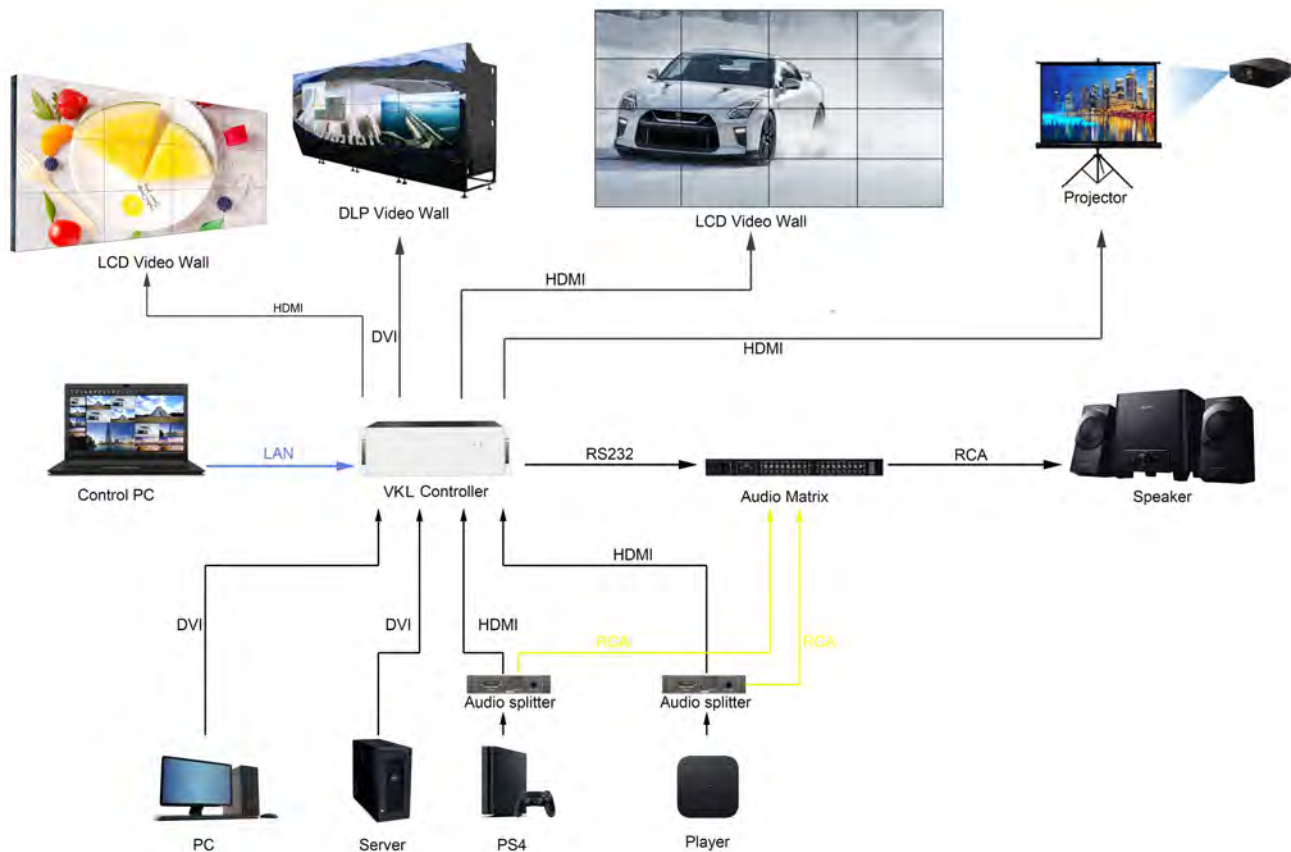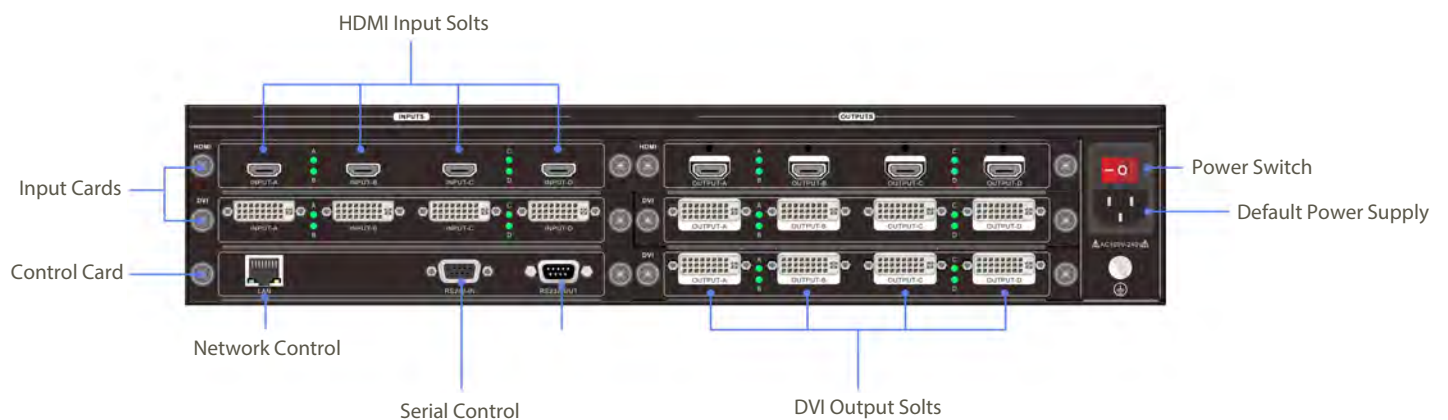


# PREVIEW FUNCTION



**Control PC**



**Videowall**

# DIAGRAM



Input:DVI/HDMI          |          Output:DVI/HDMI

Control:serial,network,third-party control system etc.

# PRODUCT STRUCTURE



HDMI Input Solts

Input Cards

Control Card

Network Control

Serial Control

Power Switch

Default Power Supply

DVI Output Solts

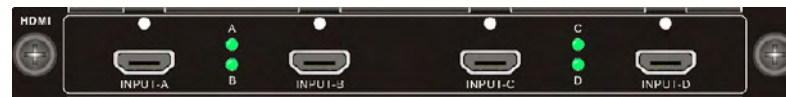# INPUT CARDS



Quad-Channel DVI Input Card



Quad-Channel HDMI Input Card

# OUTPUT CARDS



Quad-Channel DVI Output Card



Quad-Channel HDMI Output Card

# SPECIFICATIONS

| Device size | 2U | | 3U | | 6U | | 12U | |
|---|---|---|---|---|---|---|---|---|
| | Input | Output | Input | Output | Input | Output | Input | Output |
| 2 Windows / Screen | 8 | 12 | 20 | 16 | 36 | 36 | 76 | 76 |
| 4 Windows / Screen | 8 | 6 | 20 | 8 | 36 | 18 | 76 | 38 |

| | | |
|---|---|---|
| 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 |
| | Output channel | 1080P up to 36 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 |
| | 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 |
| | Signal preview | Support on PC |
| | Running text | Support |
| | Power supply configuration | N+1 redundant power supply structure |
| Control Function | Management mode | PC, Browser, iPAD Control |
| 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