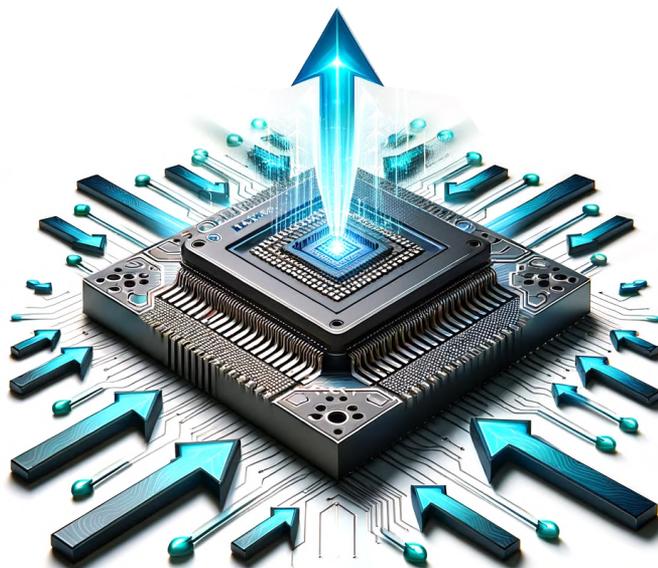




VKL Series

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 LAN and HDMI input/output boards,support up to 128 scene save and recall,to meet a variety of professional system application requirements.



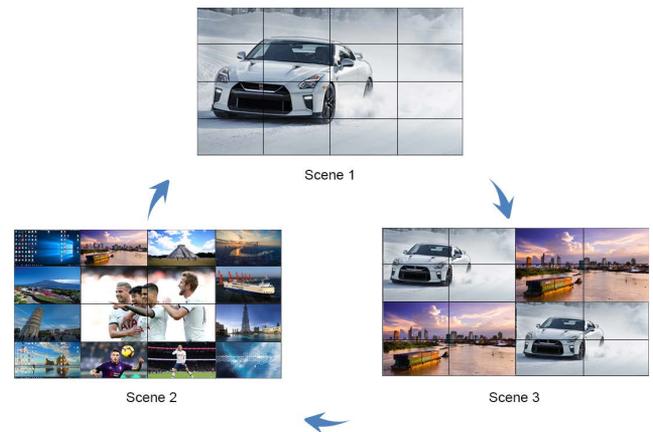
FEATURES

- Pure-hardware FPGA Array, modular design, parallel video processing hardware systems;
- Hot-swappable for I/O modules, control modules, easy to upgrade and maintenance;
- HDMI input and output; Supports 8-channel Gigabit network port output to LED screen,
- Opening 1/2 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;
- Support RS232 to control other devices
- 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
- Support audio matrix function, audio input and audio output

RELEVANT FUNCTION INDICATION



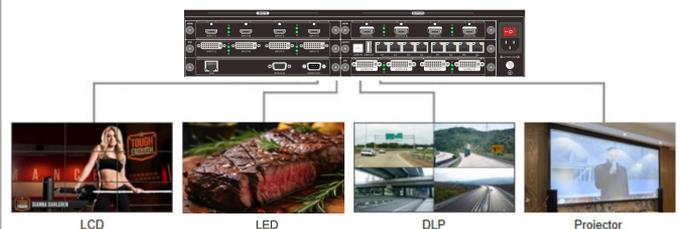
• Signal Clip



• Scene Switching



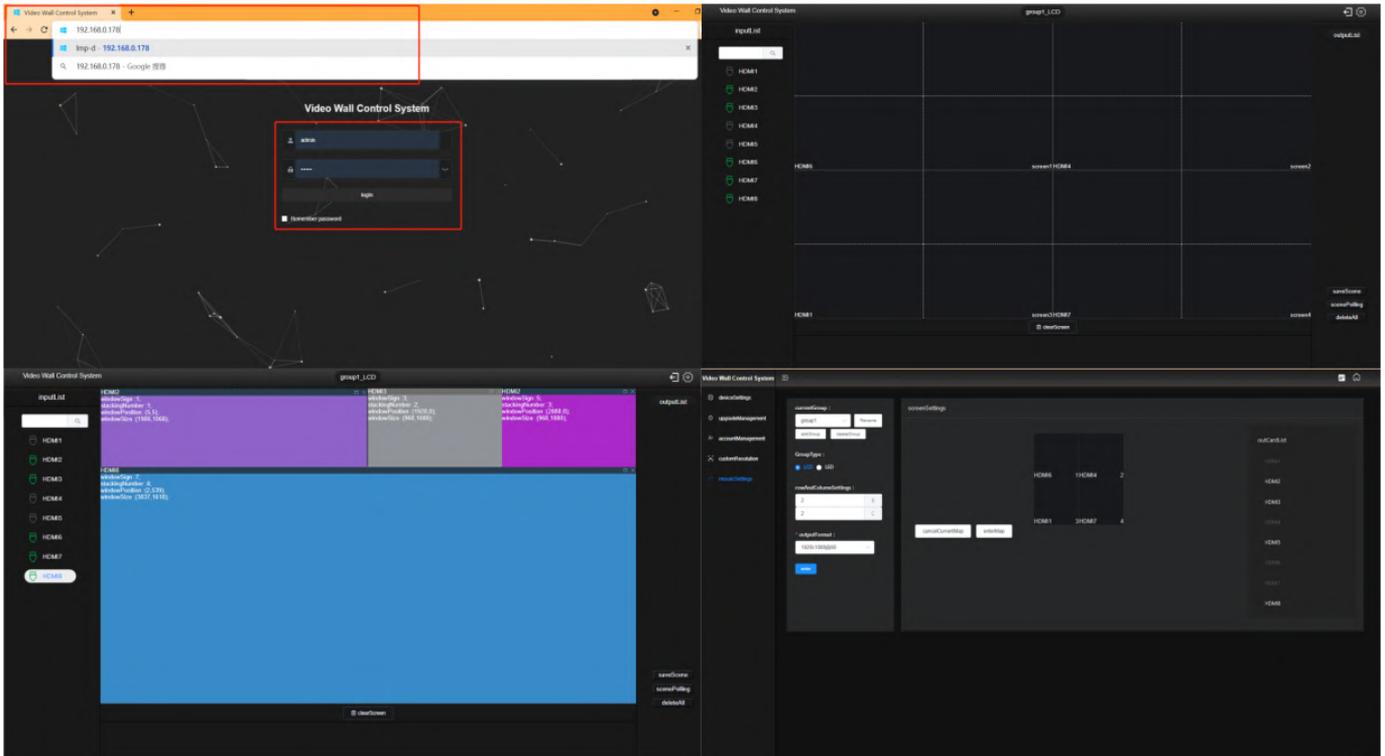
• Third-party Control



• Multi-group Control

WEB CONTROL

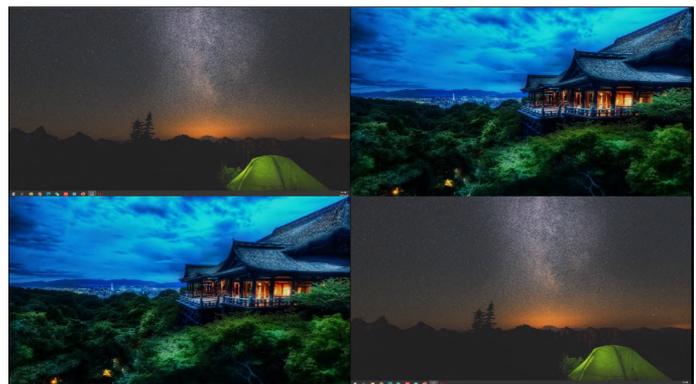
VKL comes with new feature of Web Control. The Web Control provides the properties, methods, and events that are common to PC software control. You can control the appearance and behavior of a Web Control by IP address and can control from multiple devices.



PREVIEW FUNCTION

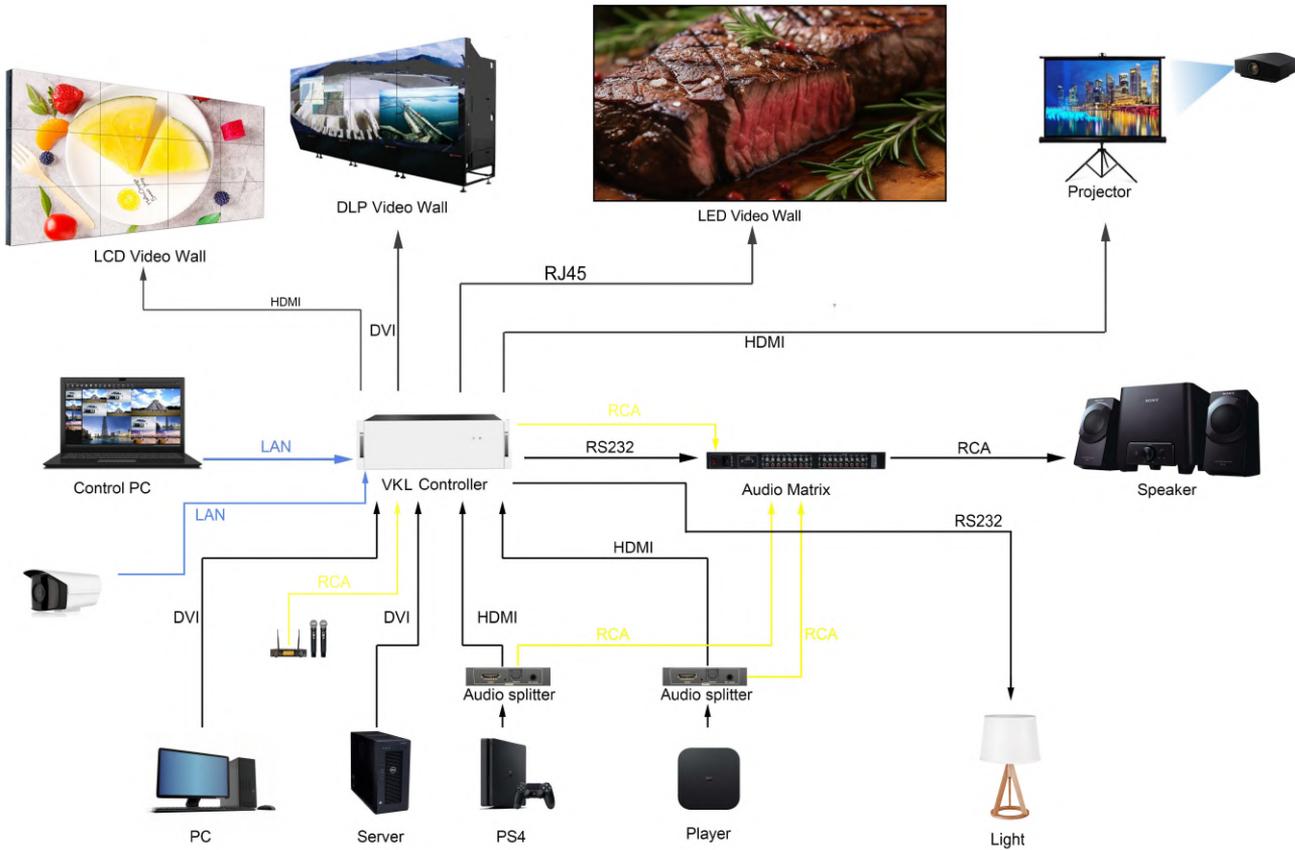


Control PC



Videowall

DIAGRAM

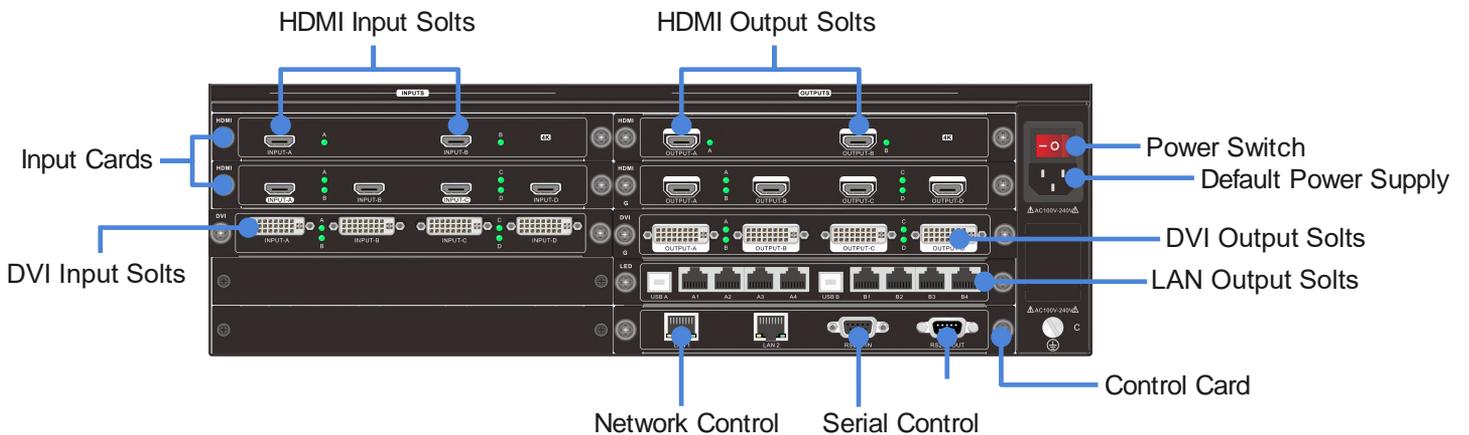


Input: DVI, HDMI, 4KHDMI, DP, VGA, CVBS, SDI, Audio, Stream

Output: DVI, HDMI, 4KHDMI, Audio, LAN, RS232

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

PRODUCT STRUCTURE



INPUT CARDS



Quad-Channel HDMI Input Card



Quad-Channel DVI Input Card



Quad-Channel VGA Input Card



Dual-channel HDMI 4K Input card



Dual-channel DP 4K Input card



Single-Channel 4k@60 DP Input card



Quad-Channel SDI Input Card



Quad-Channel CVBS Input Card



Single-Channel IP Decoding Card



Quad-Channel HDMI+Audio Input Card



Quad-Channel DVI+Audio Input Card

OUTPUT CARDS



Quad-Channel HDMI Output Card



Dual-channel HDMI Output card



Dual-channel HDMI 4K Output card



Quad-Channel DVI Output Card



Dual-channel DVI Output card



Quad-channel Audio Output card



Eight-Channel RJ45 Output Card



Central Control card

CONTROL CARDS



Standard Control Card



iPRO Control 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 | 4 | 6 | 10 | 8 | 18 | 18 | 38 | 38 |

| | | |
|------------------------------|-----------------------------|---|
| Product Hardware Information | System structure | Pure hardware FPGA architecture |
| | Start up | <8s |
| | Operating system | No CPU and operating system |
| Input/Output Signal | Board type | Pure hardware pluggable, hot-swappable structure |
| | Input type | DVI, HDMI, 4KHDMI, DP, VGA, CVBS, SDI, Audio |
| | Input channel | 1080P up to 76 channels |
| | Output type | DVI, HDMI, 4KHDMI, Audio, RJ45, RS232 |
| Image Processing | Output channel | 1080P up to 76 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 | 3840x2160@60Hz |
| | Max output resolution | 3840x2160@30Hz |
| | Single-screen window | 2/4 windows on one screen |
| | Hot-swappable | Support |
| | Control structure | Software /Hardware |
| | Maximum scenes | 128 |
| Control Function | Control method | RS232/Network and compatible with third party control system |
| | Signal preview | Support(Optional) |
| | Scrolling text | Support(Optional) |
| | Power supply configuration | N+1 redundant power supply structure |
| Stability | Management mode | C/S, WEB, iPad |
| | Safety | Hardware structure, no virus interference |
| Functional(option) | Continuity | 365 days, 7x24 hours operation |
| | iPRO Multi-Control | Support Browser & iPad control, Signal preview on PC, Scrolling text and background image |
| Working Environment | Operating temperature | -15~60°C |
| | Storage temperature | -30~75°C |
| | Operating humidity | 10 to 90% without condensation |
| | Storage humidity | 5~95% without condensation |