

MODEL: HVL-VX6

LED Video Controller



Features

Input

- * Video input port:
 - 1×HDMI2.0
 - 1×HDMI1.4 (IN&LOOP)
 - 1×DVI (IN&LOOP)
 - 1×DVI
 - 1×3G-SDI (IN&LOOP)
 - 1×10G fiber port (Fiber1)
- * Up to 4096x2160@60Hz input.
- * Support 8bit/10bit video signal.
- * The HDMI2.0 port supports HDCP2.2 standard and is compatible with HDCP1.4 standard.
- * The HDMI1.4 and DVI ports support HDCP1.4 standard.
- * 23.98Hz to 240Hz frame rate.

Output

- * 6× Gigabit network ports.
 - Maximum loading capacity of 3.93 million pixels, with up to 16,384 pixels in width and 8,192 pixels in height.
- * 2× 10 Gigabit fiber ports.
 - Fiber1 copies 6× Ethernet ports.
 - Fiber2 copies/backups 6× Ethernet ports.
- * 1× HDMI1.3 as previewing or video output port.
- * 23.98Hz to 240Hz frame rate.
- * Support both Ethernet port backup and controller redundancy.

Video processing

- * Support 8bit and 10bit video processing.
- * Video signal cropping, switching, and broadcasting-level scaling.
- * Support 3× layers display, as well as independent adjustment of size and position of layers.
- * Low latency; no latency achievable in Bypass mode.
- * Support HDR display.
- * Support Genlock and LOOP through.

Audio input/output

- * HDMI port supports audio input.
- * Support audio output via multi-function card.



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Front panel



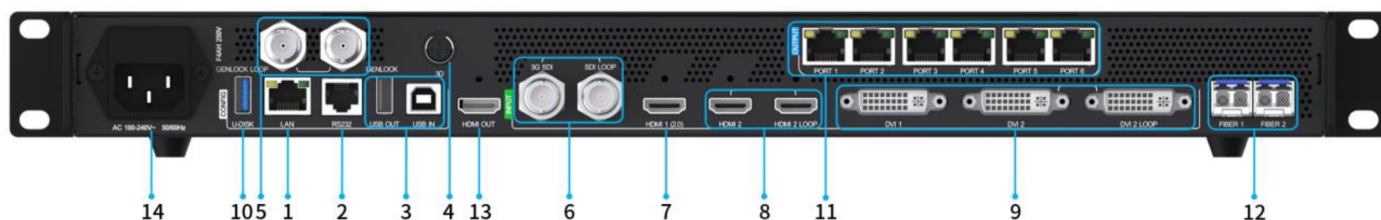
No.	Item	Description
1	LCD	Display operation menu and system information.
2	Knob	* Press to enter sub-menu or confirm selection. * Rotate to select menu item or tune parameters.
3	ESC	Exit current interface.
4	Function buttons	* MAIN / PIP1 / PIP2: Open/Close the layer and display layer status. * FULL Screen: Enable full screen auto-scaling. * HDMI 1 / HDMI 2 / DVI 1 / DVI 2 / SDI / Fiber 1-1 / Fiber 1-2 - Mosaic: Switch to corresponding signal. * Preset: Select a preset. * Bright: Tune brightness.
5	Power switch	* Freeze: Freeze the current frame of the output image. * FN: A customizable function button. Power on/off the device.

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Rear panel



Control

1	LAN	RJ45 port for accessing local area network
2	RS232	RJ11(6P6C) port* for connecting to central control.
3	USB IN	USB2.0 Type B port ; Support cascading input and connection with PC for parameter configuration.
	USB OUT	USB2.0 Type A port for cascading output.

3D port

4	3D*	Output 3D sync signal (Optional, work with active 3D glasses).
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Genlock

5	GENLOCK	1× BNC port, male, for the input of an external synchronization source. Support Bi-level and Tri-level sync. Support 23.98~60Hz frame rates.
	GENLOCK LOOP	1× BNC port, male. Loop out Genlock sync signal.

Input

6	3G SDI SDI LOOP	1× SDI input, support Loop output. Support ST-424(3G), ST-292(HD), and ST-259(SD) standard video source input. Maximum resolution: 1920×1080@60Hz Support de-interlaced display. Not support EDID settings.
7	HDMI 1 (2.0)	1× HDMI2.0 input, backward compatible with HDMI1.4 and HDMI1.3. Maximum resolution: 4096×2160@60Hz, minimum resolution: 800×600@60Hz, maximum pixel clock: 600MHz. Custom resolution: - Maximum width: 8192 (8192×1080@60Hz). - Maximum height:8192 (1080×8192@60Hz). Support independent EDID settings and comply with EDID V1.3 standard. Support HDCP2.2 standard and compatible with HDCP1.4 standard.

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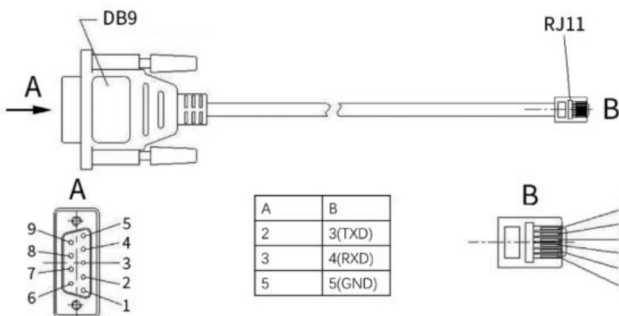
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7	HDMI 1 (2.0)	Support HDR. Support audio input. Not support interlaced signal inputs.
8	HDMI 2 HDMI 2 LOOP	1× HDMI1.4 input, HDMI 2 support LOOP output. Maximum resolution: 3840×1080@60Hz/3840×2160@30Hz, minimum input resolution: 800×600@60Hz. Custom resolution: - Maximum width: 4096 (4096×512@60Hz). - Maximum height:4096 (512×4096@60Hz). Support independent EDID settings and comply with EDID V1.3 standard. Support HDCP1.4, backward compatible. Support audio input., Not support HDR. Not support interlaced signal inputs.
9	DVI 1, DVI 2 DVI 2 LOOP	2× DVI input; DVI 2 support Loop output. Maximum resolution: 3840×1080@60Hz/3840×2160@30Hz, minimum resolution: 800×600@60Hz. Custom resolution: - Maximum width: 4096 (4096×512@60Hz). - Maximum height:4096 (512×4096@60Hz). Support HDCP1.4, backward compatible. Support independent EDID settings and comply with EDIDV1.3 standard. Not support audio input., Not support HDR. Not support interlaced signal input.
10	U-DISK	USB drive port; support receiver card parameter configuration and firmware upgrading
Output		
11	PORT 1-6	6× 1G Ethernet ports. * Overall loading capacity, 3.93 million pixels: - Up to 16,384 pixels in width and 8,192 pixels in height. - 8bit@60Hz: 3.93 million pixels; 10bit@60Hz: 2.94 million pixels. - 8bit@120Hz: 1.96 million pixels; 10bit@120Hz: 1.47 million pixels. - 8bit@240Hz: 0.98 million pixels; 10bit@240Hz: 0.73 million pixels. * Loading capacity per port, 650,000 pixels: - 8bit@60Hz: 650,000 pixels; 10bit@60Hz: 490,000 pixels. - 8bit@120Hz: 320,000 pixels; 10bit@120Hz: 240,000 pixels. - 8bit@240Hz:160,000 pixels; 10bit@240Hz: 120,000 pixels. * Communication distance: The recommended maximum cable (CAT5e) run length is 100 meters. * Support redundancy.

12	Fiber 1-2	2× 10G fiber ports (optional 10G SFP+ optical module. Transmission distance depends on optical module specifications). Fiber1: Fiber port self-adaptive, either for input or output. - When fiber optic transceiver is the device to be connected, the fiber port works as an output port. - When 6× Ethernet ports and Fiber1 are all connected, the Fiber1 works normally while the 6× Ethernet ports do not work - When Fiber1 is not connected while the 6× Ethernet ports are connected, the 6× Ethernet ports work normally. - When fiber port of the vide processor is the device to be connected, the fiber port works as an input port. - Fiber1 supports up to 1× 4K×1K@60Hz or 2× 2K×1K@60Hz video source inputs. Fiber2: For output only. - Copy mode: Support copy of the transmission of 6× Ethernet ports data during output. - Backup mode: Support 6× Ethernet ports data backup during output. - Video loop output mode: Support up to 1× 4K×1K@60Hz or 2× 2K×1K@60Hz video source. - Optional loop output video source: SDI, HDMI1(2.0), HDMI2, DVI1, DVI2, Fiber1, Fiber1.
13	HDMI OUT	1× HDMI1.3 port Support output preview or video output; the video output supports different resolutions.

Output

14	AC100-240V	Port for power input; 100-240V; 50/60Hz; with built-in fuse. 
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