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SHENZHEN AOTO ELECTRONICS CO., LTD.

Fax: +86-755-2671 9890

http://www.aoto.com

Tel: +86-755-2671 9871

E-mail: led@aoto.com

HQ Add: 9–10F, High–Tech Zone Union Tower, No.63, Xuefu Road, Nanshan district, Shenzhen, Guangdong, China Factory Add: 7, Yongda Road, West District, Dayawan Development Zone, Huizhou, China







LED Video Controller





www.aoto.com



With years of video controller developing experience, AOTO designed and developed the brand new ATLVC-8K video controller using multiple patented technology. ATLVC-8K, mainly used in rental industry, stage industry, monitoring room and studio, has the following features. off-line working, quick screen building, high color depth display, high processing depth, wide color range display, 3D technology, multiple video interface, super big loading area and flexible configuration.

ATLVC-8K

Video Controller



Product Features

Strong loading capacity

Maximum load is 20,640,000 pixels%It can drive maximum 65,535 pcs receiving cards

Excellent Displaying Technology as follows

*High color depth: It supports 8 bit, 10 bit, 12bit
*Seamless splicing: Eliminating bright and dark line
*Perfect low-gray display: No grainy or color-cast problem when in low gray

Strengthened image stability: The image is stable and not shaking seeing from video camera

Wide color range display: Realizing the swap among AOTO color space, PAL and NTSC color space.Supporting 3D display



Video interfaces and processing technology as follows

*Video Interface: HDMI, DVI, 3G/HD–SDI
*Resolution: Maximum resolution is 8Kx2K@60Hz
*Automatic identification of input signal
*Seamless swap among different video sources
*With video scaling and splitting function
*Supports multiple splicing modes and fast switching



Off-line Working

*Supporting USB system upgrade.

*Visual menu setup and Off-line quick screen building.

*Supporting the import of configuration file and system parameters by USB connection when off line.

Flexible Operation

- *System setup can be done via front panel, button, control software, remote network.
- *Supporting customized EDID
- *Insert-card operation, flexible configuration of system loading capacity, with video input port and screen output port.
- *Supporting screen multicast upgrade

*Supporting quick screen building



System running guarantee

- *Supporting power supply hot backup to guarantee stable system running.
- *Supporting 32G optical fiber transmission, long distance, high reliability and simplified cabling from video controller to screen.



FRONT



1Power on/off: Soft switching

Press once: it indicates power off and the panel displays 'Yes' and 'Cancel' with three-second countdown. If still not confirmed after countdown, system will automatically cancel the power-off action

Long press to power off the device mandatorily **2**Quick buttons: Preset mode for quick switching. **3USB port**: Supporting importing system parameters. **(ARCHARCH Representation Section Sect** confirming action

5 Functional buttons: BACK, TEST, PICT, CTRL

BACK: Press once-go back or exit the current panel; TEST: Press once press once to enter 'Test mode' menu, options available among Black, Red, Green, Blue, White, Diagonal, Grid and color stripes

PICT: Press one—quickly cut off the screen video signal CTRL: Press one-quick access to the control mode interface

67-inch touch panel: Resolution 1280x800, supporting touch input



()Rocker switch: System AC power on/off 2AC power supply input socket

3ATLVC cabinet slot: The current video controller supports 8pcs slot, seven of them can be freely configured by user. **(4)System card:** Responsible for the configuration of other cards, fixed location and unique configuration

(5)3H collection card(optional): Responsible for receiving video from HDMI video interface or other cards, and then sending the video through output interface to the next level card which may be other sending card, depending on the system configuration

4S collection card(optional): Responsible for receiving video from SDI video interface or other cards, and then sending the video through output interface to the next level card which may be other sending card, depending on the system configuration

2D collection card(optional): Responsible for receiving video from DVI video interface or other cards, and then sending the video through output interface to the next level card which may be other sending card, depending on the system configuration

6Gigabyte network sending card(optional): Receiving video from upper level card and transmitting to next level card, then sending the video within the loading area to the LED screen or may be to the other video sending cards through network port depending on the system configuration Optical fiber sending card(optional): Receiving video from upper level card and transmitting to next level card, then sending the video within the loading area to the LED screen or may be to the other video sending cards through network port depending on the system configuration

Product Specification

	Video intp
Interface	TypeResolution
DVI	1920 x 1080 @60Hz
3G–SDI	1920 × 1080 @60Hz
HDMI 2.0	4096 x 2160 @60Hz

	Video outp
Interface Type	Single port resolutio
Gigabyte network output	1000Mb/S, loading
Optical fiber output	8 Gb/S, loading 5,

	Control
LAN	Used to connect to
USB-A	Used to connect por
Panel Display	7–inch capacitive to
USB-B	Used as control plat

	Cabinet		
	Display dismension	7-inch capacitive touch screen	
Front Panel	Display Resolution 1280x800		
	Display Texture	Capacitive touch screen	
	Functional buttons 4pcs (BACK, TEST, PICT, C		
	Quick buttons 8pcs (S1 ~ S8), preset mode quic		
	Fine–tune rotary knob 1 pcs, with Confirm button		
	Indicator LED	2 pcs(power supply and system running)	
	Power on/off	1pcs	
	Power supply port	1pcs	
	USB port	1pcs	
	LAN port	1pcs	
Back Panel	Card slot quantity 8pcs(flexible sending card configuration and comb system requires at least 1pcs system card, 1pcs se and supports maximum 7pcs sending cards.		
	HDMI port	3×n pcs(1 for 4K@60Hz port, and 2 for 2K@60Hz ports), option	
	DVI port	2×n pcs, optional	
	SDI port	4×n pcs, optional	
	Optical fiber output port	1×n pcs, optional	
	Gigabyte network output port	8pcs, optional	
Dimension(mm)	483x400x133 (H*W*D, 3U)		
Weight(Kg)	9.2Kg		
Working environment	Work Temp: -10~40°C/90%RH	Storage Temp: -30~60°C/90%RH	
Input Voltage(V)	AC 100 – 240, 50/60Hz		
Input Current(A)		0.9A	
Power supply backup	Yes, double backup		

	Other F
3D Display	Supporting 1080P@6
Video Scaling	Yes
Video Splicing	Yes
Customize EDID	Yes

BACK

out interface

17

out interface

n

g 640,000 pixels

,120,000 pixels

Interface

Internet to realize the remote control of this device ortable USB device ouch screen, 1280x800

atform port

bi	ne	ŧ	

Features

260Hz, Up, Down,Left and Right video format

With years of video controller developing experience, AOTO designed and developed the brand new ATLVC-4K video controller using multiple patented technology which can be used in majority of applications. It is the upgrade of current ATLVC-XS video controller and has the following features. Quick screen building, high color depth display, high processing depth, wide color range display, 3D technology, super HD loading area, web server log-in and flexible configuration.

ATLVC-4K

Video Controller



Product Features

Strong loading capacity

Maximum load is 10,320,000 pixels%It can drive maximum 65,535 pcs receiving cards

Excellent Displaying Technology as follows

*High color depth: it supports 8 bit、10 bit、12bit
*Seamless splicing: Eliminating bright and dark line
*Perfect low-gray display: No grainy or color-cast problem when in low gray

Strengthened image stability: The image is stable and not shaking seeing from video camera

*Color space conversion: Realizing the swap PAL, NTSC and custom color space.

☆Supporting 3D display



Video interfaces and processing technology as followss

*Video Interface: HDMI, DVI, 3G/HD–SDI
*Resolution: Maximum resolution is 4Kx2K@60Hz
*Automatic identification of input signal
*Seamless swap among different video sources
*With video scaling and splitting function
*Supports multiple splicing modes and fast switching
*Supporting DMX512 control protocol
*Supporting GenLock synch and loop–out



Off-line Working

*Supporting USB system upgrade.

*Visual menu setup and Off-line quick screen building.

- *Supporting the import of configuration file and system
- parameters by USB connection when off line.

Flexible Operation

- *Can be set directly through the front panel. Also through the phone, PAD, computer network login WEB server for system settings.
- *Supporting DMX512 control platform
- *Supporting customized EDID
- *Insert-card operation, video input interface and screen output interface can be configured as required.
- *Supporting screen multicast upgrade
- *Supporting quick screen building



System running guarantee

*Supporting 16G optical fiber transmission, long distance, high reliability and simplified cabling from video controller to screen.



FRONT



()USB port: Importing configuration file and system parameters and so on

2Power on/off: Soft switching

Press once: it indicates power off and the panel displays 'Yes' and 'Cancel' with three-second countdown. If still not confirmed after countdown, system will automatically cancel the power-off action

Long press to power off the device mandatorily 3 Power indicator and System running indicator **Quick buttons**: Swap among different splicing mode **5**Rotary knob: Fast option switch. Pressing once means

confirming action 6 Functional buttons: BACK, TEST, PICT, CTRL BACK: Press once-go back or exit the current panel; Long press-go back to main panel

CTRL+BACK—Lock/unlock the LCD display. When lock/unlock is done, the system indicator light flashes once, meaning operation successful

TEST: Press once—TEST: Press once to enter 'Test mode' menu, options available among Black, Red, Green, Blue, White, Diagonal, Grid and color stripes Long press to exit 'Test mode'

PICT: Press once to Enter off-line picture control menu, options available among Black, Random picture, prestored pictures

Long press to exit the currently shown picture of LED screen and return to normal display status

CTRL: Mixed control button, see descriptions above. **74.3-inch touch panel**: Resolution 480x272

BACK



- ()COM port: Connecting RS232 port to configure system parameters ②LAN port:Network port used to connect PC or routeur to get an access to Internet
- **3DMX512 port**: Separate port for input and output, realizing the brightness control of various digital lighting systems
- **GenLock port**: Separate port for input and output, digital phase-locked, realizing the source synch of multi systems
- (5)2D collection card(optional): Responsible for receiving video from DVI video interface or other cards, and then sending the video through output interface to the next level card which may be other sending card, depending on the system configuration

3H collection card(standard): Responsible for receiving video from HDMI video interface or other cards, and then sending the video through output interface to the next level card which may be other sending card, depending on the system configuration

4S collection card(optional): Responsible for receiving video from SDI video interface or other cards, and then sending the video through output interface to the next level card which may be other sending card, depending on the system configuration

6 Gigabyte network sending card(optional): Receiving video from upper level card and transmitting to next level card, then sending the video within the loading area to the LED screen or may be to the other video sending cards through network port depending on the system configuration

Optical fiber sending card(standard)): Receiving video from upper level card and transmitting to next level card, then sending the video within the loading area to the LED screen or may be to the other video sending cards through network port depending on the system configuration

⑦AC power supply input socket 8 System AC power on/off

Product Specification

Video intput interface	
Interface	TypeResolution
DVI	1920 x 1080 @60Hz
3G–SDI	1920 × 1080 @60Hz
HDMI 2.0	4096 x 2160 @60Hz

	Video outp
Interface Type	Single port resolutio
Gigabyte network output	1000Mb/s, loading
Optical fiber network output	8 Gb/s, loading 5,

	Control
COM	To connect RS232 p
LAN	To connect with Inte
USB	To connect with por
Panel Display	4.3–inch LCD displa
DMX512	To connect with DM
GenLock	To connect with Ger

	Cabinet	
	Display size	4.3–inch LCD display
	Display Resolution	480x272
	Functional buttons	4 pcs (BACK, TEST, PICT, CTRL)
Front Panel	Quick buttons	6pcs, swap among splicing modes
	Fine-tune rotary knob	1pcs, with Confirm button
	Indicator LED	2pcs(power supply and system running)
	USB port	1pcs
	Power on/off	1pcs
	Power supply port	1pcs
	HDMI port	3pcs(1 for 4K@60Hz port, and 2 for 2K@60Hz ports), standard
Back Panel	DVI port	4pcs, optional
	SDI port	8pcs, optional
	Optical fiber output port	2pcs, optional
	Gigabyte network ouput port	8pcs, optional
	DMX512 port	2pcs
	GenLock port	2pcs
	COM port	1pcs
	LAN port	1pcs
Dimension(mm)	483x400x88 (W*D*H, 2U)	
Weight(Kg)	7Kg	
Working environment	Work Temp: -10~40°C/90%RH Storage Temp: -30~60°C/90%RH	
Input Voltage(V)	AC 100 – 240, 50/60Hz	
Input Current(A)	0.9A /50Hz~60Hz	

	Other F
3D Display	Supporting 1080P@6
Video Scaling	Yes
Video Splicing	Yes
Customize EDID	Yes

put interface

on

- g 640,000 pixels
- ,120,000 pixels

I Interface

port to configure system parameters

ternet, realizing the remote control of this device

ortable USB device

ay, 480x272

MX512 device to control the stage lighting device system

enLock Synch input, realizing the source synch of multi systems

eatures

260Hz, Up, Down,Left and Right video format

With years of video controller developing experience, AOTO designed and developed the brand new ATLVC-2K video controller using multiple patented technology which can be used in majority of applications. It is the upgrade of current ATLVC-HS video controller and has the following features. Quick screen building, high color depth display, high processing depth, wide color range display, 3D technology, super HD loading area, web server log-in control and flexible configuration.

ATLVC-2K

Video Controller



Product Features

Strong loading capacity

Maximum load is 5,160,000 pixelsXIt can drive maximum 65,535 pcs receiving cards

Excellent Displaying Technology as follows

*High color depth: it supports 8 bit、10 bit、12bit
*Seamless splitting: Eliminating bright and dark line
*Perfect low-gray display: No grainy or color-cast problem when in low gray

*Strengthened image stability: The image is stable and not shaking seeing from video camera

*Color space conversion: Realizing the swap PAL, NTSC and custom color space *Supporting 3D display



Video interfaces and processing technology as follows

*Video Interface: HDMI, DVI, 3G/HD–SDI
*Resolution: Maximum resolution is or 2048x2160@60Hz or 4Kx2K@30Hz
*Automatic identification of input signal

Seamless swap among different video sourcesWith video scaling and splitting function



Off-line Working

*Supporting USB system upgrade.

*Visual menu setup and Off-line quick screen building.

*Supporting the import of configuration file and system parameters by USB connection when off line.

parameters by USB connection when on

Flexible Operation

*Can be set directly through the front panel. Also through the phone, PAD, computer network login WEB server for system settings.

*Supporting DMX512 control platform

*Supporting customized EDID

- *Insert-card operation, video input interface and screen output interface can be configured as required.
- *Supporting screen multicast upgrade
- *Supporting quick screen building



System running guarantee

*Supporting 8G optical fiber transmission, long distance, high reliability and simplified cabling from video controller to screen.



Product Specification

Video intput interface	
Interface	TypeResolution
DVI	1920 x 1080 @60Hz
3G–SDI	1920 × 1080 @60Hz
HDMI 1.4	3840 x 2160 @30Hz

	Video outp
Interface Type	Single port resolution
Gigabyte network output	1000Mb/S, loading
Optical fiber output	8 Gb/S, loading 5,

	Control
СОМ	To connect RS232 p
LAN	To connect with Inte
USB	To connect with port
Panel Display	3.12 inches OLED di

	Cabinet	
	Display size	3.12–inch OLED display
	Display Resolution	256x64
	Functional buttons	1pcs(BACK)
Front Panel	Fine-tune rotary knob	1pcs, with Confirm button
-	Indicator LED	2pcs(power supply and system running)
	USB port	1pcs
Back Panel	Power on/off	1pcs
	Power supply port	1pcs
	HDMI port	2pcs, standard
	DVI port	2pcs, optional
	SDI port	4pcs(2pcs input, 2pcs output), optional
	Gigabyte network ouput port	4pcs, standard
	Optical fiber output port	1pcs, optional
	COM port	1pcs
	LAN port	1pcs
Dimension(mm)	483x400x44 (W*D*H, 1U)	
Weight(Kg)	6.15Kg	
Working environment	Work Temp: -10~40°C/90%RH	Storage Temp: -30~60°C/90%RH
Input Voltage(V)	AC 100 – 240, 50/60Hz	
Input Current(A)	0.4A /50Hz~60Hz	

	Other F
3D Display	Supporting 1080P@6
Video Scaling	Yes
Video Splicing	Yes
Customize EDID	Yes

FRONT



1Power on/off: Soft switching

Press once: It indicates power off and the panel displays 'Yes' and 'Cancel' with three-second countdown. If still not confirmed after countdown, system will automatically cancel the power-off action

Long press to power off the device mandatorily.

2USB port: Importing configuration file and system parameters and so on

3 Power indicator and System running indicator

(4)Functional button: BACK

BACK: Press once to go back or exit the current panel; Long press to go back to main panel

(5)Rotary knob: Fast option switch. Pressing once means confirming action

63.12-inch LCD display: Resolution 256x64

BACK



()Gigabyte network sending card(optional): Receiving video from upper level card and transmitting to next level card, then sending the video within the loading area to the LED screen or may be to the other video sending cards through network port depending on the system configuration

Optical fiber sending card(optional): Receiving video from upper level card and transmitting to next level card, then sending the video within the loading area to the LED screen or may be to the other video sending cards through network port depending on the system configuration

2H sending card(optional): Responsible for receiving video from HDMI video interface or other cards, and then sending the video through output interface to the next level card which may be other sending card, depending on the system configuration

2D sending card(optional): Responsible for receiving video from DVII video interface or other cards, and then sending the video through output interface to the next level card which may be other sending card, depending on the system configuration

2S sending card(optional): Responsible for receiving video from SDI video interface or other cards, and then sending the video through output interface to the next level card which may be other sending card, depending on the system configuration

3COM port: Connecting RS232 port to configure system parameters

(4)LAN port: Network port used to connect PC or routeur to get an access to Internet

(5)Rocker switch: System AC power on/off

6AC power supply input socket.

out interface

g 640,000 pixels

,120,000 pixels.

Interface

port to configure system parameters

ernet, realizing the remote control of this device

rtable USB device

display, 256x64

eatures

60Hz, Up, Down,Left and Right video format

Easy to manipulate

Web page login — No need to install setup software Quick connecting to screen, easy to use and control



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English(American) 🗸	
T.	
its the current controller as a backup controller.	
	4



Mobile terminal login - convenience and flexibility

Front panel control – optimization design, simple and easy to use









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