

## AMS-AX900

### 8 Channel Video Controller

AMS-AX900 Standard

### 9 Channel Video Controller

AMS-AX900U Expanding USB

AMS-AX900W Expanding WiFi

AMS-AX900S Expanding SDI

### 10 Channel Video Controller

AMS-AX900US Expanding USB+SDI

AMS-AX900WS Expanding WiFi+SDI

AMS-AX900SS Expanding 2\*SDI

### Integrated Sending Card (MSD600)

Flexible, Versatile LED Video Controller

Seamlessly Switch Any Channel

- ▶ Seamlessly Switch Any Channel
- ▶ 8 / 9/10-channel Digital-analog Video Input  
1 DP、1 DVI、2HDMI、2 VGA、2 AV、  
1 USB (EXT)、1 WiFi (EXT)、1/2SDI (EXT)
- ▶ Signal Detection Function
- ▶ Support Audio Output
- ▶ Support Oversized Splice 10x10
- ▶ Support Custom Output Resolution  
2048x1152@ 60Hz、2560x816@60Hz、3840x640@60Hz
- ▶ 34 Shows The Effect Of Arbitrary Switching
- ▶ Mode Save And Recall
- ▶ One Key Black Screen And Freeze
- ▶ Knob Adjustment Settings
- ▶ Support RS232 Interface Control
- ▶ DVI-Loop Out Convenient To Multi-splicing
- ▶ PIP、POP function
- ▶ Color Matting function



# Introduction

**More Channel Video Input** - LED Video Controller 8/9-channel video input, 1 DP, 1 DVI, 2 HDMI, 2 AV(CVBS), 2 VGA, 1/2 3G-SDI or 1 USB / WiFi (Expanding); Basically covers the civil and industrial uses. All video input switching and enables fast cut and fade transitions.

**Practical Video Output Interfaces** - AMS-AX900 LED Video Controller has 2 channels of DVI video output and 4 channels of RJ45 network port output, When selecting DVI video input, DVI LOOP Will distributio output (LOOP OUT) The network port is the built-in MSD600 of the device. The network port output of the sending card.

**Seamless Switching** - LED Video Controller can also seamlessly switch between any channels switching, the time adjustable from 0 to 5.0 seconds. With a fade transition effect, switch the input channel, so that the screen can be switched smoothly to the second screen. Using fast switching, switching input channels; you can instantly switch the video output.

**Full Output Resolution** - LED Video Controller designed for users with useful commonly output resolution, the widest reach 3840 points, the highest of 1920 points, for a variety of dot matrix display. Up to 20 kinds of output resolution for users to choose, and can be adjusted to point output. Customers can also according to the actual needs, customize the desired resolution.

**Support PIP、POP** - PIP technology unaltered state in the original image, the other input of the same or different overlay images. LED Video Controller PIP function, not only can be adjusted overlay size, location, borders, etc. You can also use this feature to achieve Picture outside Picture (POP), dual-screen display.

**One Key Black** - Black screen during a performance is an essential operation, during a performance, you need to close the image output, and you can use the black keys for fast black.

**Support Freeze** - During playback, you may need to freeze the current picture together to achieve "pause" screen. Freeze the screen, the operator can also change the current input selection or change lines, etc., to avoid background operation affect performance results.

**PART And FULL Fast Switching** - LED Video Controller a simple and functional operation of the interception part of the screen and full-screen operation, any one input channel can be independently set different interception effect, and each channel is still able to seamlessly switch. Users can arbitrarily set the current channel interception of part of the screen size and position, and the other channels remain unchanged intercept method. When switching between channels most of its screen or full screen function follows.

**Mode Save And Recall** -LED Video Controller user presets with 4 groups, each user can store all user default setup parameters, use the “**MODE**” preset shortcut keys you can quickly recall. Can achieve rapid field parameter backup and recall function

# Introduction

**Equal And Unequal Stitching** - Splicer is LED Video Controller important part, which can be achieved equal stitching and unequal stitching, stitching on greatly satisfy users' needs. On multiple processors to achieve frame synchronization, 0 delay, no tail and other technologies to enable smooth performance perfect. Unequal spliced portion of the output is the same with the picture settings; the user can read the following chapters for instructions.

**30bit Scaling Technology** - LED Video Controller using a dual-core image processing engine, a single core can process 30 image scaling technology to achieve pixel output from 64 to 2560, while achieving 10 times the image to enlarge the output, i.e., the maximum screen more than 25,600.

**Brightness Adjustment Technology** - LED Video Controller unique brightness adjustment function, reduce the brightness solved after layering lost, so that more true color reproduction.

**Saved Directly Technology** - Saved directly technology to solve the user's settings and manually save tedious process, that users of co-ordination or adjust parameters without the implementation of artificial save operation, LED Video Controller user parameters automatically stored in EEPROM, even if the power When turned on, the parameters before power remains in the device.

**34 GAMMA Curve** - A rich pool of GAMMA curve, users can meet in a variety of light conditions and the use of color environments.

**ACC & ACM Image Filtering** - LED Video Controller using ACC and ACM image filtering engine, handling each color, nonlinear filtering effect of the lowest loss rate of the image, restore the color fidelity.

**Support Audio Output** - LED Video Controller can synchronization output while inputting HDMI, SDI and USB signals, not only decode video signals, but also decode analog audio output, enabling audio and video synchronization output.

**Support RS232 Interface Control** - can use computer to connect processor to use PC software to set the output resolution, brightness, audio switch, switch signal source, etc.....

# Specification

Video Input	
Input Source	2 Composite Video PAL、NTSC、PAL-M/N、SECAM 2 VGA Input VESA Max 1920x1080@60Hz 1 DVI Input VESA Max 1920x1080@60Hz 1 DP Input VESA Max 1920x1080@60Hz 2 HDMI Input 480i/p、576i/p、720p、1080i/p Color depth 8、10、12 bit 1/2 SDI (Expanding) 1080p 60/50/30/25/24/25(PsF)/24(PsF) 720p 60/50/25/24 1080i 1035i、625/525 line
Connector	2/4/6 BNC socket Composite、SDI Input 2 D-Sub VGA Input 1 DP socket DP Input 1 DVI-I(24+5) DVI Input 2 HDMI A Type(19pin) HDMI Input 1 DB9 socket RS232 Control 1 USB+RJ45 socket USB+Network control 1 USB-B socket Sending Card Parameter Sets
Resolution range	640x480~1920x1080 480i/p、576i/p、720p、1080i/p、2048x1080; Point-point Sampling; Blanking
Video Processing	
Analog sampling	Each color 12 bit ;13.5 MHz (Video) 170 MHz (RGB)
Digital pixel data bit depth	8\10 \12 bit
Video Output	
Out Source	1 DVI VESA
Connector	2 DVI-I(24+5) 2 DVI Programming Output, 1 DVI-I-LOOP-OUT
Output resolution	1024×768@60Hz 1024×1280@60Hz 1024×1920@60Hz 1280×720@60Hz 1280×1024@60Hz 1440×900@60Hz 1536×1536@60Hz 1600×1200@60Hz 1680×1050@60Hz 1920×1080@60Hz 1920×1200@60Hz 2048×640@60Hz 2048×1152@60H 2304×1152@60Hz 2560×816@60Hz 3840×640@60Hz Custom Output Resolution

# Specification

Network Port Output		
Signal Type/Quantity	4 x RJ45    Gigabit Ethernet ports Capacity per port up to 650,000 pixels Redundancy between Ethernet ports supported	
General Specifications		
Power	Internal 100~240VAC, 50~60Hz	
Temp/Humi	<b>Storage:</b> <b>T:</b> -40 ~ +70 °C / <b>H:</b> 10% ~ 90%, Non-condensing <b>Working:</b> <b>T:</b> 0 ~ +50 °C / <b>H:</b> 10% ~ 90%, Non-condensing	
Machine Size	485mm (length) x 345mm (width) x 65mm (Height)	
Packing Size	530mm (length) x 425mm (width) x 120mm (Height)	
Net weight (Machine)	5.0kg	
Net weight (Packing)	7.0kg	
Certification standards EMI/EMC	FCC, ROHS CE	
MTBF	30,000 Hrs	
Warranty	1 Years <b>NOTE:</b> All average nominal voltage of ± 10%	
<b>Model</b>	<b>Description</b>	<b>P/N</b>
AMS-AX900	Conventional	PN9002206
AMS-AX900U	Expanding USB	PN9051905U
AMS-AX900W	Expanding WiFi	PN9051905W
AMS-AX900S	Expanding SDI	PN9051905S
AMS-AX900US	Expanding USB+SDI	PN9051905US
AMS-AX900WS	Expanding WiFi +SDI	PN9051905WS
AMS-AX900SS	Expanding 2*SDI	PN9051905SS