

Specification



LED / LCD

4K HDMI Video Matrix

- Seamless Switching
- Fullcolor LCD Screen
- Multi-Screen Manage
- Web-version Upper PC

AMS-MTX_16*16

Safety

This chapter illustrates safety of the 4K HDMI Video Matrix AMS-MTX_16*16 to ensure the product's storage, transport, installation and use safety. Safety instructions are applicable to all personnel who contact or use the product. First of all, pay attention to following points.

- Read through the instructions.
- Retain all instructions.
- Comply with all instructions

■ Storage And Transport Safety

- Pay attention to dust and water prevention.
- Avoid long-term direct sunlight.
- Do not place the product at a position near fire and heat.
- Do not place the product in an area containing explosive materials and strong electromagnetic environment.
- Place the product at a stable position to prevent damage or personal injury caused by dropping.
- Save the packing box and materials which will come in handy if you ever have to store and ship the product. For maximum protection during storage and shipping, repack the product as it was originally packed at the factory.

■ Installation And Use Safety

- Only trained professionals may install the product.
- Plugging and unplugging operations are prohibited when the power is on.
- Ensure safe grounding of the product.
- Always wear a wrist band and insulating gloves.
- Do not place the product in an area having frequent or strong shake.
- Perform dust removing regularly.
- Contact Amoonsky for maintenance at any time, rather than have the product disassembled and maintained by non-professionals without authorization.
- Replace faulty parts only with the spare parts supplied by Amoonsky.

■ Overview

AMS-MTX_16*16 Is A 4K HDMI Video Matrix That Supports Seamless Switching And Flexible Management Of Multiple Input&Output Signals; The Device Built-in The Taiwan Mean Well Brand Power Supply, Equipped With Crystal Keys And Fullcolor LCD Screen; Support Web-version Upper Computer Control; Simple Operation, Stable Performance, Suitable For Display And Control Needs In Different Scenarios.

- **Input&Output Port** -- The HD Video Matrix MTX_16*16 Uses 16 HDMI Video Input, 16 Channel Of HDMI Output, Support 4K (3840*2160@30Hz) Resolution And Backward Compatible, Support HDCP;
- **Seamless Switching Of Any Channel** -- The Video Matrix MTX_16*16 Can Seamlessly Switch Between Any Input Or Output Channels, Effectively Avoid Affecting Professional Performance Due To Black Screen Interruptions, Ensure Smooth Transition Of Shows On The Display Screen;
- **Support One Key Black Screen** -- When The Image Output Needs To Be Closed During The Performance, Press The “ Black” Key Can Be Used To Realize Fast Black Screen.
- **Test Function** -- The Video Matrix Has Built-in is11 Sets Of Test Pattern, Can Rotate The Knob To Select It As Following Path: Menu -- Function -- Test Pattern; Used The Test Pattern Can Quickly Test The Display Effect Of The Screen;
- **Key Lock Function** -- The Video Matrix Series Has Key Lock Function, Open The Keypad Lock Function, During Use, Can Effectively Prevent Misuse And Other Situations, Provides A Favorable Guarantee For The Use Of The Process, Quick Method: Can Press The Return Key 2s To Unlock Or Lock;
- **Preset Saved And Recalled** -- The Video Matrix Series Adopts 10 Sets Of User Presets. Each Set Of UserPresets Can Store All User Setting Parameters, And Can Realize Parameter Backup And On-Site Calling Functions, Menu Setting Path: Menu -- Preset -- Load/Save/Reset Preset; Perhaps Loading Or Saving Directly Through Front Panel Keys;
- **Web Version Upper Computer** -- The Video Matrix Users Can Directly Connect The Devices Through Ethernet Cables Or Connect To The Local Area Network Through Switches, By Entering The IP Address Through A Browser And Logging In, They Can Achieve Full Functionality With Precise And Intuitive Operation, Making Efficiency And Intelligence Within Reach;

■ Diagram



■ Application



Command Center



Security Monitoring

Introduction

Fullcolor LCD Screen

Intuitive LCD Operation Interface, Menu Settings Can Be Adjusted By Key And Knob

Menu Operation

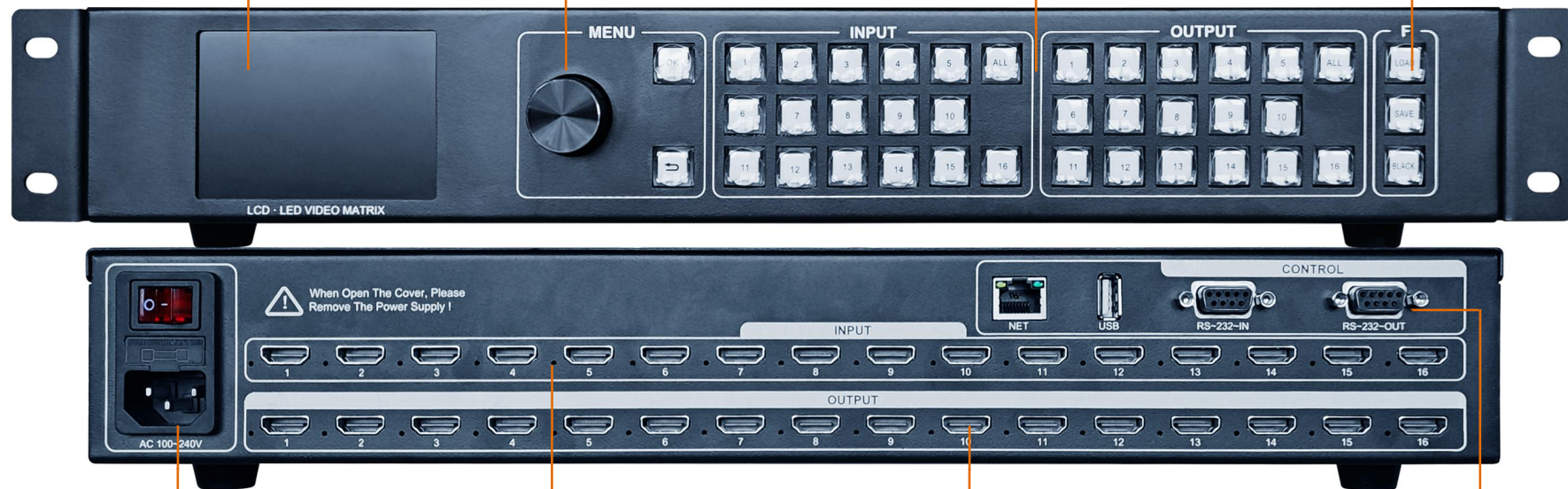
OK: Confirmation Key
ESC: Return Operation Key
Knob: Adjust Menu Parameters

Input&Output • Key Area

Signal Switching Method: First Select The Input Chanel, Then Select The Output Chanel; If Input And Output Selected “All” Key,Then The Signal Sources And Output Will Correspond One-To-One;
Input Area 0-9: Number Keys In The Menu, Which Can Quickly Save To The Corresponding Template;

Function Key

LOAD: Load Preset Templates Shortcut Key;
SAVE: Save The Current Scene To The Preset Template Through The Shortcut Keys;
Black : Press The Key, All Outputs Will Be Black Screen , Click Again To Restore Display;



Power Interface :

Built-in Mean Well Power Supply, Support 110-240V AC Input;

Power Switch & Power Fuse :

Includes 1pcs Backup Fuse;

Input Interface&Indicator

Support 4k@30hz Resolution&Backward compatible, When The Signal Source Is Detected As Normal Input, The Signal Indicator Will Light Remains On;

Output Interface&Indicator

Supports Separate Or Splice Output, Configured All On The Device Menu. When The Output Connected Normally, The Signal Indicator Will Light On;

Control Interface

NET : Web-Version Upper PC For Control;
USB : Upgrades Device Program By USB Disk;
RS232 : Used Serial Protocol To Control;

Parameters

Port Specifications		
HDMI Port Input&Output	Interface Type: HDMI-A Socket, Quantity: 16 * Input & 16 * Output; Signal Standard: HDMI1.4 Backward compatible; Resolution: VESA Standard, ≤3840×2160p@30Hz;	
NET Ethernet Port	Interface Type: RJ45; Web Version Upper PC Control Can Be Achieved By Connecting The Computer Through Ethernet Cable;	
USB Port	USB-B, Can Upgraded The Device Programs Through USB Disk;	
RS232 Serial Port	By The Upper-PC Protocol To Control, RS232 Has Loop-out Function, Which Can Be Cascaded And Controlled Multiple Devices;	
EXT • ANT	Extension Interface, Not Enabled;	
Performance		
Switching Method	Seamless Switching, Audio&Video Sync Output;	
Device Language	Standard Version Is English, Other Languages Require Need Remarks;	
General Specifications		
Power Supply	Mean Well Brand • Built-in, 100~240V AC, 50~60Hz;	
Temperature	Storage : T: -40℃ ~ +80 ℃ 、 H: 10% ~ 90%, Non-condensing; Working: T: 0 ℃ ~ +60 ℃ 、 H: 10% ~ 90%, Non-condensing;	
Machine Size	485mm (Length) x 375 mm (Width) x 77mm (Height)	
Packing Size	535mm (Length) x 435 mm (Width) x 120mm (Height)	
Product Weight	Gross Weight : 5.0Kg ;	
Package Weight	Volume Weight : 6.0Kg ;	
Warranty	1 Year; Note: All Rated Voltages Are On Average ±10%;	
Packing List		
Standard	Power Cable * 1, Certificate * 1;Warranty Card * 1;	
Model	Description	P/N
AMS-MTX_16*16	Standard Model	PN202411016