USER MANUAL

4x4 HDMI Matrix
Model #: 33-12780

INTRODUCTION

Dear customer

Thank you for purchasing this Stellar Labs product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Our selection of HDMI Converter, switches, extenders, matrixes and splitters were designed to make your A/V device use more convenient, comfortable, productive and cost-efficient.

This unit is a 4x4 HDMI Switch Matrix which can easily switch between four HD Sources and four HD Displays.

Our devices offer solutions for noise, space, security concerns, data center control, information distribution, conference room presentations, schools, and corporate training environments.

FEATURES

- Four Input HD Source signals switch and distribute to four HD Displays
- Supports: 3D,36 Bit Deep Color
- Supports: Blue-Ray DVD,DVD2,DVD,HD-DVD,swYCC
- Supports Audio Formats: DTS-HD/Dolby-trueHD/LPCM7.1/DTS/Dolby-AC3/DSD
- Supports: Signal Retiming
- You can use the remote to choose the signal source or switch the input signal source by pressing the switch button.

Contents:

1. Main Unit .... 1 piece
2. Power Adapter .... 1 piece
3. Remote .... 1 piece
4. User Manual .... 1 piece
5. CD（RS232 Ccrtl）al Softw ... 1 piece
6. IR Extender Cable .... 1 piece
7. RS232 Serial Port Cable 5.   MHL to HDMI cable 1 piece

Picture 1.0 Front Panel Picture

1- 4：HDMI Input Status Led Light
IR：Infrared sensor
Switch A：HDMI A Port Switch Button
Switch B：HDMI B Port Switch Button
Switch C：HDMI C Port Switch Button
Switch D：HDMI D Port Switch Button

Picture 1.1 Rear Panel Picture

DC 5V：Power Port
IR Extend：IR Extend Port
Output A-Output D：HDMI Output Port
Input 1- Input 4：HDMI Input Port

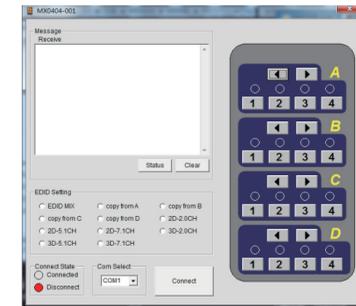
Picture 1.1 Rear Panel Picture

RS232：RS232 Serial Port

Operating and Connecting:

1.Connect the source units to the input section of the matrix via HDMI cables.
2.Connect the HD display units to the output section of the matrix via HDMI cables.
3.Connect the power adapter to the matrix.
4.To use the RS232port connect a data cable with an RS232 connector to the matrix, and the other side to a controller.
5.To use the IR extender, plug the extension cord into the IR extend port on the matrix, and then place the target in an easily visible area.

SPECIFICATIONS:

HDMI Input/Output Resolution 24/50/60fs/3D/1080p/1080i/720p/576p/576i/480p/480i
Deep Color...24bit/deep color 30bit,36bit
HDMI Audio Format..................................... DTS-HD/Dolby-trueHD/LPCM7.1/DTS/Dolby-AC3/DSD
HDMI Max bandwidth...225MHz
HDMI Max baud rate...6.75Gbps
Input/Output TMDS signal ....0.5~1.5Volts p-p(TTL)
Input/Output DDC signal ....5Volts p-p(TTL)
HDMI Input cable distance...≤10m AWG26 HDMI standard cable
Output cable distance..≤15m AWG26 HDMI standard cable
Max working current..2A
Power adapter format...5V/3A
Operating Temperature range..(-15 to +55℃)
Operating Humidity range...5 to 90%RH (No Condensation)
Product size (L x W x H)...12.1" x 5.9" x 1.4"(mm)
Weight...2.68 lbs.

Matrix RS232 Control Software Instruction

COM Select：Choose the matched COM port, click the Connect Button, then Connect button will go right.
Control software begin being under control.
Message Receive： Show the print info that the device feed backed.
Status: Refresh current status info.
Clear： Delete the print info at the window.
EDID Setting： For preset the best EDID or copy the chosen output port EDID and save it at the device.
Button A-D： Represent the four output
Button 1-4： Represent the chosen input source, the bright number represent the current chosen input source.
Control Way： For example, if you want to choose the Input 2 to output by the Output C port, you can click the Number 2 below Letter C, then it will be ok.

Serial Port Protocol

Serial Port Protocol Format: Length+Start Code(0x55)+Instruciton Code+Parameter(It can be without)+Finish Code(0x77)

Command (hex)	feedback	description
0x04 0x55 0x20 0x77		To get the output port working status and the EDID status.
0x05 0x55 0x19 0x00 0x77	s1t\n s1x s2x s3x s4x EEx	Output 1 choose the input 1
0x05 0x55 0x19 0x01 0x77	s10	Output 1 choose the input 2
0x05 0x55 0x19 0x02 0x77	s11	Output 1 choose the input 3
0x05 0x55 0x19 0x03 0x77	s12	Output 1 choose the input 4
0x05 0x55 0x19 0x10 0x77	s13	Output 1 chosen the input 4
0x05 0x55 0x19 0x11 0x77	s20	Output 1 chosen the input 1
0x05 0x55 0x19 0x12 0x77	s21	Output 2 chosen the input 2
0x05 0x55 0x19 0x13 0x77	s22	Output 2 chosen the input 3
0x05 0x55 0x19 0x20 0x77	s23	Output 2 chosen the input 4
0x05 0x55 0x19 0x21 0x77	s30	Output 3 chosen the input 1
0x05 0x55 0x19 0x22 0x77	s31	Output 3 chosen the input 2
0x05 0x55 0x19 0x23 0x77	s32	Output 3 chosen the input 3
0x05 0x55 0x19 0x30 0x77	s33	Output 3 chosen the input 4
0x05 0x55 0x19 0x31 0x77	s40	Output 4 chosen the input 1
0x05 0x55 0x19 0x32 0x77	s41	Output 4 chosen the input 2
0x05 0x55 0x19 0x33 0x77	s42	Output 4 chosen the input 3
0x05 0x55 0x19 0x40 0x77	s43	Output 4 chosen the input 4
0x05 0x55 0x19 0x41 0x77	EE0	EDID mix
0x05 0x55 0x19 0x42 0x77	EE1	EDID copy form output 1
0x05 0x55 0x19 0x43 0x77	EE2	EDID copy form output 2
0x05 0x55 0x19 0x00 0x77	EE3	EDID copy form output 3
0x05 0x55 0x18 0x00 0x77	EE4	EDID copy form output 4
0x05 0x55 0x18 0x01 0x77	EE5	EDID 2D 2CH
0x05 0x55 0x18 0x02 0x77	EE6	EDID 2D 5.1CH
0x05 0x55 0x18 0x03 0x77	EE7	EDID 2D 7.1CH
0x05 0x55 0x18 0x10 0x77	EE8	EDID 3D 2CH
0x05 0x55 0x18 0x09 0x77	EE9	EDID 3D 5.1CH
0x05 0x55 0x18 0x0b 0x77	EEa	EDID 3D 7.1CH

Notes:

Please use this device as the instructions have described to improve the longevity and safety of the unit.
1.The unit should be placed in a location away from damp, high-temperature, dusty, erosive, and oxidative conditions.
2.Please hold the power adapter head and do not pull the power cord when disconnecting from the socket.
3.Please turn the power off when the unit is not being used for long time.
4.Please use the original factory power adapter.

Troubleshooting

Issue	Cause and Ways to deal with
No Power	1. Make sure the power plug is inserted securely into the unit. 2. Check the power source to make sure it is connected to an outlet.
No Picture	1. Make sure the monitor is on and connected to the unit. 2. Make sure the source is on and connected to the unit. 3. Check all connections to make sure they are secure. 4. Connect the source to the monitor to see if the issue with your other components. 5. Inspect your HDMI cable for damage.
Obscure Picture	1. Connect the source to the monitor to see if the issue with your other components. 2. Inspect your HDMI cable for damage.
Remote Not Working	1. Make sure the plastic tab is removed from the battery compartment. 2. Make sure the battery has a charge.

Warranty

This device is warranted against manufactures defects for a period of one year from the date of purchase from the dealer. This warranty extends solely to the repair or replacement of this product and does not cover additional costs, including but not limited to installation or removal of the product or any incidental or consequential damages. Nor does it cover damage due to improper use, storage or application of this device. Should a service issue arise within the one year period, please contact the dealer in which this device was purchased. It will be the sole decision of Stellar Labs to repair or replace any device found to be defective during this period.