

# 16x16 HDBaseT-Lite Matrix with POC & 4K2K



P/N: AV-GM07L3-S1



The **AV-GM07L3-S1 16x16 HDBaseT-Lite Matrix with POC & 4K2K** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the **AV-GM07L3-S1** should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

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## **INTRODUCTION**

The **AV-GM07L3-S1 16x16 HDBaseT-Lite Matrix with POC & 4K2K** provides the most flexible and cost effective solution in the market to route high definition video sources plus multi-channel (up to 7.1-channel) digital audio from any of the four HDMI sources to the remote displays at the same time. Through only one low cost Cat-5/5e/6 LAN cables, not only high quality video and audio can be transmitted to the display sites, but also users can switch among four HDMI sources using the push-in button or remote control. Furthermore, the built-in IR extension function makes users at display site access the DVD player, PS3 or any HDMI supported devices directly!

## **FEATURES**

- Supports HDMI Deep Color & full 3D & 4K2K@30 (HDBaseT technology)
- Extends the transmission up to 60m (198ft) from the HDMI source at Full HD 1080p 48-bit and 40m (130ft) at 4K2K@30
- Supports PoC(Power over Cable) which can power both units from TX side with power supply
- HDCP 1.4 compliant
- Bi-directional IR pass-though
- Allows controlling local HDMI sources or display through control path
- Allows to control main matrix center through control line at remote receiver
- Pure unaltered uncompressed 7.1ch digital HDMI over Cat.5/5e/6 cable transmission
- Allows any source to be displayed on multiple displays at the same time
- Allows any HDMI display to view any HDMI source at any time
- Supports 7.1 channel digital audio
- Supports default HDMI EDID and learns the EDID of displays
- The matrix master can switch every output channels to any HDMI inputs by Front Panel, IR remote control, RS-232 and IP control
- Easy installation with rack-mounting
- Fast response time 2~4 seconds for channel switch

## **PACKAGE CONTENTS**

- 1x AV-GM07L3-S1
- 17x IR receiver
- 1x Rack-mounting ear set
- 1x Installation software CD
- 1x UL AC C13 power cord
- 16x IR blaster\*
- 1x IR Remote control\*
- 1x User Manual

\* Additional IR remote controllers and IR blasters can be purchased as optional accessories to control the HDMI sources located separately.

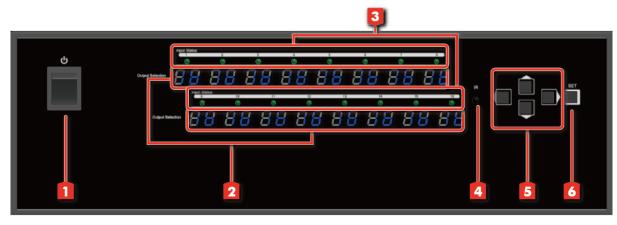
# SPECIFICATIONS

Model Name		AV-GM07L3-S1		
Technical		AV-GM07L3-S1		
Role of usage		True 16x16 matrix switcher Transmitter [TX]		
HDMI compli	iance	HDMI Deep Color & full 3D & 4K2K@30		
HDCP compli	iance	Yes [HDCP 1.4]		
Video bandw	vidth	Single-link 340MHz [10.2Gbps]		
Video suppor	rt	480i / 480p / 720p / 1080i / 1080p@60/ 4K2K@30		
Audio suppor	rt	Surround sound (up to 7.1ch) or stereo digital audio		
HDMI over U <sup>-</sup> transmission		1080p@60 60m (198ft) [CAT5e]		
Input TMDS s		1.2 Volts [peak-to-peak]		
Input DDC sig	gnal	5 Volts [peak-to-peak, TTL]		
ESD protectio	-	Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge]		
PCB stack-up		4-layer board [impedance control — differential 100 $\Omega$ ; single 50 $\Omega$ ]		
Input		16x HDMI / 1x RS-232 / 1x Ethernet /17x IR socket for IR receiver		
Output		16x HDMI / 16x RJ-45(HDBaseT) /17x IR socket for IR blaster		
HDMI Input s	selection	Push-in button / IR remote control / RS-232 control / Ethernet control		
HDMI source	control	Controllable via IR pass-through from IR receiver at RX to IR blaster at TX		
IR remote co	ntrol	Electro-optical characteristics: 🛛 = 25° / Carrier frequency: 20-60kHz		
HDMI connec	ctor	Type A [19-pin female]		
RJ-45 connect	tor	WE/SS 8P8C[Reversed mode]		
RS-232 conne	ector	DE-9 [9-pin D-sub female]		
USB connecto	or	None		
3.5mm connector		Earphone jack for IR blaster <b>[All IR Out]</b> IR control on all source devices <b>[IR1~IR16]</b> IR control on individual source device Earphone jack for IR receiver <b>[System IR]</b> Receives IR commands from remote control <b>[IR1~IR16]</b> Receives IR commands from individual remote control		
Mechanical		AV-GM07L3-S1		
Enclosure		Metal case		
	Model	440 x 349 x 131mm [1'4" x 1'1" x 5.1"]		
Difficition	Package	528 x 458 x 273mm [1'7" x 1'5" x 10.7"]		
	Carton	542 x 472 x 296mm [1'8" x 1'5" x 11.6"]		
L L L L L L L L L L L L L L L L L L L	Model	9.9kg [21 lbs]		
Weight F	Package	14.6kg [32 lbs]		
I	0	3 RU rack-mount with ears		
Fixedness		Wall hanging holes		
Power supply		AC Power 100-240V		
Power consu	mption	120 Watts [max]		
Operation temperature		0~40°C [32~104°F]		
Storage temp		-20~60°C [-4~140°F]		
Relative hum	nidity	20~90% RH [no condensation]		

## PANEL DESCRIPTIONS

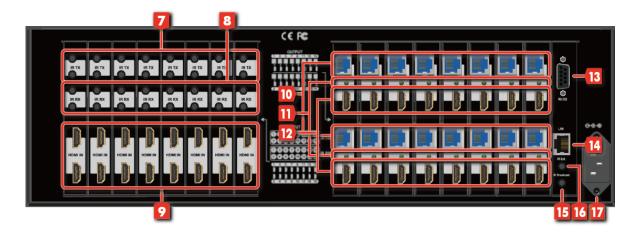
## Transmitting unit ► AV-GM07L3-S1

## **Front Panel**



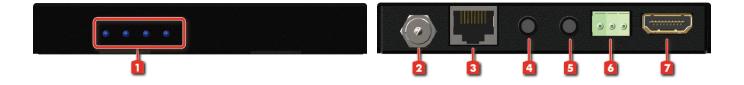
- 1. Power Switch: Power ON/OFF switch
- 2. 7-segment LED: for output 1-16 status
- 3. Source Status: Input source indicator LED
- 4. IR SENSOR: IR sensor for receiving the IR commands from IR remote
- 5. Push Button: Select the output and input
- 6. Push Button: Enter Button

### **Rear Panel**



- 7. IR Blaster 1-16: 3.5mm IR blaster socket for individual HDMI source control
- 8. IR Receiver 1-16: Infrared 3.5mm socket for plugging in the extension cable of IR receiver
- 9. INPUT 1-16: HDMI inputs
- 10. Output Port 1-16: RJ-45 outputs for each output channel
- **11. LED:** Link indicator
- 12. HDMI Local Loopout Port 1-16: Local loopout HDMI outputs for each output channel
- 13. RS-232: RS-232 control port
- 14. Ethernet: Ethernet control port
- 15. All IR Output: 3.5mm IR blaster socket for HDMI source control on all 16 inputs

## Receiving unit CV-57VA-RX [Sold Separately]



- 1. LED: Power LED, Status LED, Link LED, HDCP LED
  - > Power LED: This LED light always shine is meant that works fine.
  - > Status LED: This LED light is blinking it means functions well.
  - > Link LED: This LED light always shine is meant that works fine.
  - HDCP LED: HDCP ON the LED light always shine HDCP OFF – the LED light is blinking
- 2. Latch-locking power jack: Connect to 12V DC power supply
- 3. RJ-45: Plug in a Cat-5/5e/6 cable that needs to be linked to the receiving unit CV-57VA-RX
- 4. IR Receiver: Infrared 3.5mm socket for plugging in the extension cable of IR receiver
- 5. IR Blaster: Infrared 3.5mm socket for plugging in the extension cable of IR blaster
- 6. **RS-232 (terminal block format):** The order of RS-232 pin are TX, RX, GND (from the left side to the right)
- 7. HDMI OUT: Connects to a HDMI display with HDMI male-male cable

## **IR PASS-THROUGH**

### **IR Extenders**



### **IR Sockets**

AV-GM07L3-S1

All IR Out: The default location for IR blaster to transmit all IR command signals received from any of the four remote receivers to all of the HDMI sources.

**IR BLASTER 1-16:** IR blaster connected here can only transmit IR command signals from the remote receivers that are setting at respective input channel from 1 to 4.

System IR: Receives IR commands from remote control

IR RECEIVER 1-16: Receives IR commands from individual remote control

#### <u>CV-57VA-RX</u>

IR BLASTER: IR control on individual display device

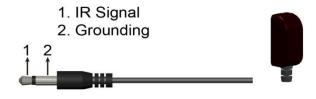
**IR RECEIVER:** IR receiver connected here can receive all IR command signals from the IR remote controls of AV-GM07L3-S1 and all other HDMI source devices.

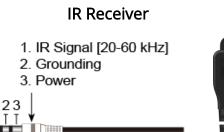


Incorrect placement of IR Blaster and Receiver may result in the failure of the IR extenders. Please check carefully before plugging in the IR extender to the respective IR sockets. Warranty will not cover the damage.

## Definition of IR Earphone Jack

**IR Blaster** 



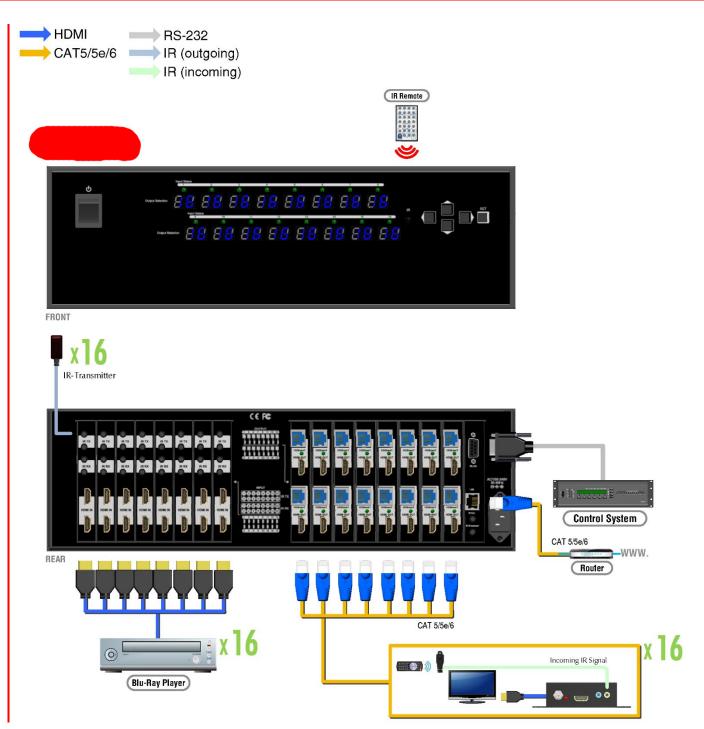






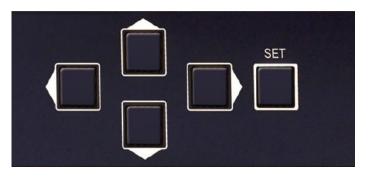
You can buy any IR extension cables in the market that are compatible to the definition of the IR sockets for the matrix if necessary for replacement use. However, IR cables longer than 2m (6-ft) may not work.

## **CONNECTION DIAGRAM**



## **OPERATION APPROACH**

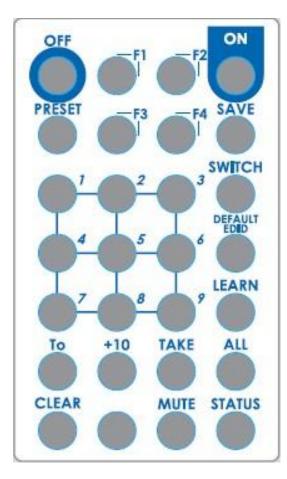
### Method A: Push-in Button



### Input / Output Mapping

- 1) Use the "LEFT" or "RIGHT" push button to select the output desired to switch sources to.
- 2) Use the "UP" or "DOWN" push button to select the specific source
- 3) Press "SET" to start & confirm

## Method B: IR Remote Control



Button	Function
ON	Power on the matrix switcher
OFF	Standby mode
PRESET	Preset mapping mode
SAVE	Save current mapping mode
Number button 1-9	Select a number
+10	Select a number
То	Transfer key
TAKE	Trigger the previous setting
MUTE	Turn off/Mute the selected Output
SWITCH	Begin input and output selection
DEFAULT EDID	Begin default EDID selection
LEARN	Begin EDID learning from one output
ALL	Select all inputs or outputs
CLEAR	Clear the previous IR operation procedure
STATUS	Reserved
F1	Reserved
F2	Reserved
F3	Reserved

 F4	Reserved

## Example of function key

Operation	Procedure	7-Segment LED
IN / OUT Switch	Switch + number(input) + To + number(output) + Take	
	1. Press "SWITCH" button	-
	2. Press number key "3" to select Input	- 3
Ex: Input 3 To Output 4	3. Press "To" button	- 3
	4. Press number key "4" to select Output	4 3
	5. Press "TAKE" button	4 3
	Switch + number(input) + To + All(output) + Take	
	1. Press "SWITCH" button	-
	2. Press number key "3" to select Input	- 3
Ex: Input 3 To Output All	3. Press "To" button	- 3
	4. Press "ALL" to select All Output	A 3
	5. Press "TAKE" button	4 3
Factory Reset	Status + Status + Status + Take	
	1. Press "STATUS" button	-
	2. Press "STATUS" button	d -
	3. Press "STATUS" button	d d
	4. Press "TAKE" button	1
Learn default EDID	Default EDID + number(1-16 default EDID) + To + number(input) + Take	
	1. Press "DEFAULT EDID" button	E d
	2. Press number key "2" to select default EDID	2 d
Ex: Default EDID 2 Input 3	3. Press "To" button	2 D
	4. Press number key "3" to select Input	2 3
	5. Press "TAKE" button	0 F 0 (success) F (fail)
	Default EDID + number(output) + To + All(input) + Take	
	1. Press "DEFAULT EDID" button	E D
Ex: Default EDID 2 Input All	2. Press number key "2" to select default EDID	2 D
	3. Press "To" button	2

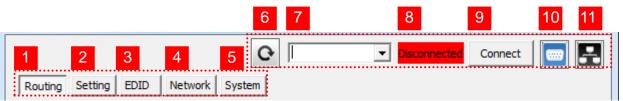
	D
	2
4. Press "ALL" to select All Input	Α
	0 F
5. Press "TAKE" button	0 (success)
	0 (success) F (fail)

Learn Output EDID	Learn + number(output) + To + number(input) + Take	9
	1. Press "LEARN" button	E
	2. Press number key "2" to select Output	2 L
Ex: Learn Output 2 Input	3. Press "To" button	2 L
3	4. Press number key "3" to select Input	2 3
	5. Press "TAKE" button	0 F 0 (success) F (fail)
	Learn + number(output) + To + all(input) + Take	
	1. Press "Learn" button	E
	2. Press number key "2" to select Output	2 L
Ex: Learn Output 2 Input	3. Press "To" button	2 L
All	4. Press "ALL" to select All Input	2 A
	5. Press "TAKE" button	0 F 0 (success) F (fail)
Save Current Mapping	Save + number(output) + Take	
	1. Press "SAVE" button	d -
Ex: Save current mapping to 5:	2. Press number key "5" to select the storage site	5
	3. Press "TAKE" button	
Preset Mapping	Preset + number(1-16 storage site) + Take	
	1. Press "Save" button	P -
Ex: Learn Output 2 Input All	2. Press number key "5" to select the storage site	5
	3. Press "TAKE" button	

## Method C: Software Control through RS-232 port / Ethernet port

## System Requirement

- 1) OS Information: MS WinXP/7
- 2) Baud rates: 9600
- 3) Software size: 3 MB
- 4) Minimum RAM requirement: 256 MB



1	I/O Routing Button
2	Rename I/O Button
3	EDID Button
4	Network Button
5	F/W Update & Default Reset Button
6	Refresh COM Port
7	COM Port Selection
8	Connection Status
9	Connect/Disconnect Button
10	Control SW via RS-232
11	Control SW via Network

## 1. I/O Routing Button

16x16 Matrix			_ <b>_</b> X
	<b>O</b>	Disconnect	Connect 💽 💽
Routing Setting EDID Net	work System		
_I/O			
1. Output 1	Input 1	9. Output 9	Input 1
2. Output 2	Input 1	10. Output 10	Input 1
3. Output 3	Input 1	11. Output 11	Input 1
4. Output 4	Input 1	12. Output 12	Input 1
5. Output 5	Input 1	13. Output 13	Input 1
6. Output 6	Input 1	14. Output 14	Input 1
7. Output 7	Input 1	15. Output 15	Input 1
8. Output 8	Input 1	16. Output 16	Input 1
Output All	None (All Output)		
Cours Manaira		De sell Mereciae	
Save Mapping To: Mapping 1	▼ Save	From: Mapping	1 Recall
1			

► I/O:

Select the input

- Save Mapping:
   Select Mapping(1-8)
   Click "Save" button to save current mapping
- Preset Mapping:
   Select Mapping(1-8)
   Click "Recall" button to recall previous mapping which are saved

## 2. Rename I/O Button

👫 16x16 Matrix		0	Disconnected	Cor		
					liect	
Routing Setting EDID Net	work System					
Rename I/O				Rename	Mapping	
Output / Name Out	tput / Name Ir	nput / Name	Input / Name	Ма	pping / Name	
1 Output 1 9	Output 9 1	Input 1	9 Input 9	1	Mapping 1	
2 Output 2 10	Output 10 2	Input 2	10 Input 10	2	Mapping2	
3 Output 3 11	Output 11 3	Input 3	11 Input 11	3	Mapping3	]
4 Output 4 12	Output 12 4	Input 4	12 Input 12	4	Mapping4	
5 Output 5 13	Output 13 5	Input 5	13 Input 13	5	Mapping5	
6 Output 6 14	Output 14 6	Input 6	14 Input 14	6	Mapping6	
7 Output 7 15	Output 15 7	Input 7	15 Input 15	7	Mapping7	
8 Output 8 16	Output 16 8	Input 8	16 Input 16	8	Mapping8	]
	Save				Save	

➢ Rename I/O:

Rename output name Rename input name

Rename Mapping:

Rename Mapping name

## 3. EDID Button

🖁 16x16 Matrix			
	<b>O</b>		onnect 💽 🔚
Routing Setting EDID Network	System		
Learn EDID From Default		Learn EDID File	
From : 2. Full-HD(1080p@60	-24bit 2ch 💌	to: Input 1	•
To : Input 1	•		Load
	Learn	View EDID	
		From: 1. Input 1	•
Learn EDID From Display			View
From : 1. HDMI Output1	<b>•</b>	Auto EDID Learn	Create EDID
To : Input 1	<b>_</b>	Auto EDID Learn	Create EDID
	Learn		

- Learn EDID from Default
  - Select Default EDID(1-10 Default EDID)
  - 1. Full-HD(1080p@60)-24bit 2D & 2ch & Dolby 5.1ch
  - 2. Full-HD(1080p@60)-24bit 2D & 7.1ch
  - 3. Full-HD(1080p@60)-24bit 3D & 2ch
  - 4. Full-HD(1080p@60)-24bit 3D & 7.1ch
  - 5. HD(1080i@60)(720p@60)-24bit 2D & 2ch
  - 6. HD(1080i@60)(720p@60)-24bit 2D & 7.1ch
  - 7. Full-HD(1080p@60)-36bit 2D & 2ch
  - 8. Full-HD(1080p@60)-36bit 2D & 7.1ch
  - 9. 4K2K@30Hz 24-Bit 7.1ch
  - 10. 4K2K@30Hz 24-Bit 2ch

Select Input

- Learn EDID From Display
   Select output
   Select Input
   Click "Learn" button to learn display EDID
- Load EDID File to Input
   Select Input
   Click "Load" button to select the EDID file
- View EDID
   Select Input or HDMI output
   Click "View" button to read the EDID and analysis
- Create EDID
   Click "Create" button to create EDID file

HDMI		X
VESA Resolution: 1024x768 • Frequency: 60Hz • Add	Audio Type: LPCM   Audio Type: LPCM   24 Bit Content: 32kHz  20 Bit Number of Channels  1  Add	
HDTV Resolution: 640x480p Frequency: 59.94Hz/60Hz • 4:3 © 16:9 Add	3D Support       Supports_AI       DC_Y444       DVI_Dual         Activates 3D       DC_48bit       DC_36bit       DC_30bit         Resolution:       1280x720p @ 23.98/24Hz       Add         Format:       Frame Packing       Add	
Monitor Name (13 Character)	Speaker allocation	
	Confirm Save EDID to computer	

Select the EDID content

Click "Save EDID on Computer" to save the generated EDID as a file

4. Network Button

船 16x16 Matrix	State State	
	C Disconnected	Connect
Routing Setting EDID Network S	ystem	
	Ethernet Setting	
	IP	
	MASK	
	Save Setting Read Setting	

Save Setting

Save the IP address which you key in on the column

Read Setting:

Read the IP address from the device

PS: The default IP address is 192.168.1.111

### 5. System Button

🖁 16x16 Matrix				_ <b>_</b> ×
	0	Disconnected	Connect	
Routing Setting EDID Network System				
Version	Factory Reset -	Help		
Get FW Version	Facto	ry Reset	Help	
Firmware Update Main Board         Load File       File Size:         Break       Start         Firmware Update DB Board         LoadFile       File Size:         Start       Abort		Firmware Update HDBase		
Load File File Size:		LoadFile	File Size:	
Break Start	Abort	Start	Abort	
Firmware Update DB Board		Firmware Update Web IC		
LoadFile File Size: Start Abort		Load File	File Size:	
		Start	Abort	

Version:

Get the firmware version information

Factory Reset

To do factory default reset

≻ Help

To view the steps of the firmware update

- > Firmware Update Main Board
- Firmware Update Valens
- > Firmware Update DB Board
- > Firmware Update Web IC
- 6. Refresh COM Port Button

#### 7. COM Port Selection

Click " button to select COM Port

#### 8. Connection Status

Connected Status:

Connect

Connecting Status:

Connecting...

Disconnected Status:

)isconnected

#### 9. Connect/Disconnect Button

Click this button " connect " to change connection status

#### 10. RS-232 Button

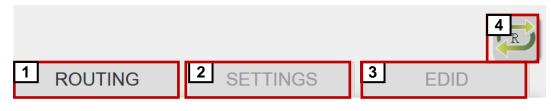
- Click " button to switch to RS-232 function.
- > If RS-232 is connected, the button will show the sign image to let you know.

#### 11. Ethernet Button

- > Click " 🔚 " button to switch to Ethernet function
- > If Ethernet is connected, the button will show the sign image to let you know.

## Method D: Web Interface Control

The default IP address: 192.168.1.111 Account: admin Password: matrix



- 1 I/O Routing Button
- 2 Setting Button
- 3 EDID Button
- 4 Refresh I/O Status & Read I/O Name Button

## 1. I/O Routing Button

	R
ROUTING SETTINGS	EDID
[ <u> </u>	
1. Output1 Input1	
2. Output2 Input1	
3. Output3 Input1	
4. Output4 Input1	
5. Output5 Input1	
6. Output6 Input1	
7. Output7 Input1	
8. Output8 Input1	
9. Output9 Input1	
10. Output10 Input1	
11. Output11 Input1	
12. Output12 Input1	
13. Output13 Input1	
14. Output14 Input1	
15. Output15 Input1	
16. Output16 Input1	
17. Output All Input1	

I/O:Select the input

Save Mapping:

Save Mapping	
To: Mapping1	Save
Recall Mapping	
From: Mapping1	Recall

Select Mapping (1-8) Click "Save" button to save current mapping

Recall Mapping:

Select Mapping (1-8)

Click "Recall" button to recall previous mapping which are saved

### 2. Setting Button

ROUTING	SETTINGS	)
Rename I/O	]	
Output / Name	Input / Name	
1	1	
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	
8	8	
9	9	
10	10	
11	11	
12	12	
13	13	
14	14	
15	15	
16	16	
	Se	end

- Rename I/O:
   Rename output name
   Rename input name
- Rename Mapping:

Rename Mapping	
Configuration / Name	Send
1	
2	
3	
4	
5	
6	
7	
8	
7	

#### Rename Mapping name

> Password change: (the password has to be 6 characters)

Password Changing		
Old Password		
New Password		
New Password Co	nfirm	
		Submit
1		

Key in "old password" Key in "new password"

Key in "new password" again

### 3. EDID Button

ROUTING	SETTINGS	EDID
Learn EDID From	Default	
	D-24bit 2D & 2ch 🔻	Send
To Input 1	<b>•</b>	
	Output 1 -	Send
Learn EDID fro Select Default	m Default EDID (1-10 Default EDID)	

- 1. Full-HD(1080p@60)-24bit 2D & 2ch & Dolby 5.1ch
- 2. Full-HD(1080p@60)-24bit 2D & 7.1ch
- 3. Full-HD(1080p@60)-24bit 3D & 2ch
- 4. Full-HD(1080p@60)-24bit 3D & 7.1ch
- 5. HD(1080i@60)(720p@60)-24bit 2D & 2ch
- 6. HD(1080i@60)(720p@60)-24bit 2D & 7.1ch
- 7. Full-HD(1080p@60)-36bit 2D & 2ch
- 8. Full-HD(1080p@60)-36bit 2D & 7.1ch
- 9. 4K2K@30Hz 24-Bit 7.1ch
- 10. 4K2K@30Hz 24-Bit 2ch
- Select Input Click "Send" button to learn default EDID
- Learn EDID From Display
   Select output
   Select Input
   Click "Send" button to learn display EDID
- 4. Refresh I/O Status & Read I/O Name Button

## EDID LEARNING

The EDID learning function is only necessary whenever you encounter any display on the HDMI output port that cannot play audio and video properly. Because the HDMI source devices and displays may have various level of capability in playing audio and video, the general principle is that the source device will output the lowest standards in audio format and video resolutions to be commonly acceptable among all HDMI displays. In this case, a 720p stereo HDMI signal output would be probably the safest choice. Nevertheless, the user can force the matrix to learn the EDID of the lowest capable HDMI display among others to make sure all displays are capable to play the HDMI signals normally.

There are THREE methods to do EDID Learning as below,

- 1. Front Panel Push-in Button: Please refer to the **Operation Approach\ Method A: Push-in Button**
- 2. IR Remote Control: Please refer to the Operation Approach\ Method B: IR Remote Control
- 3. Software Control: Please refer to the Operation Approach\ Method C: Software Control

#### through RS-232 port

There are ten embedded default EDID as below,

- 1. Full-HD(1080p@60)-24bit 2D & 2ch & Dolby 5.1ch
- 2. Full-HD(1080p@60)-24bit 2D & 7.1ch
- 3. Full-HD(1080p@60)-24bit 3D & 2ch
- 4. Full-HD(1080p@60)-24bit 3D & 7.1ch
- 5. HD(1080i@60)(720p@60)-24bit 2D & 2ch
- 6. HD(1080i@60)(720p@60)-24bit 2D & 7.1ch
- 7. Full-HD(1080p@60)-36bit 2D & 2ch
- 8. Full-HD(1080p@60)-36bit 2D & 7.1ch
- 9. 4K2K@30Hz 24-Bit 7.1ch
- 10. 4K2K@30Hz 24-Bit 2ch

## WARRANTY

The SELLER warrants the **AV-GM07L3-S1 16x16 HDBaseT-Lite Matrix with POC & 4K2K** free from defects in the material and workmanship for 3 years from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 3 years warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables and power adapters are limited to a 30 day warranty and must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the AV-GM07L3-S1 features and specifications is subject to change without further notice.

> Support For more info or tech support http://www.siig.com/support

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