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MTX3-88-HSA Quick Start Guide

This guide helps you install and use your **MTX3-88-HSA** for the first time.

Go to www.kramerav.com/downloads/MTX3-88-HSA to download the latest user manual and check if firmware upgrades are available.

Step 1: Check what's in the box

- ☑ **MTX3-88-HSA** 8x8 4K60 Matrix Switcher
- ☑ 2 Power cords
- ☑ 1 Quick start guide
- ☑ 4 Rubber feet
- ☑ 1 Set of rack ears

Step 2: Get to know your MTX3-88-HSA
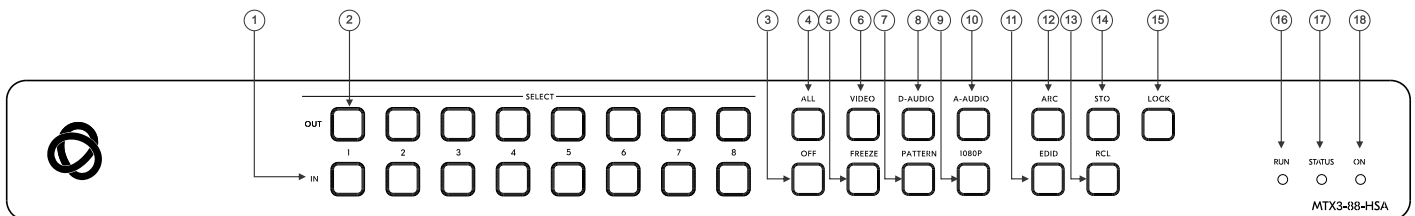
#	Feature	Function	
1	IN (SELECTOR) Buttons	Press to select the input (1 to 8) to switch after selecting an output.	
2	OUT (SELECTOR) Buttons	Press to select an output (1 to 8) to which the input is routed. Also used for storing machine presets.	
3	OFF Button	Press after pressing an output button to disconnect the selected output from the inputs. To disconnect all the outputs, press ALL followed by OFF.	
4	ALL Button	Press to perform an action on all outputs (for example setting Pattern mode). For switching, press ALL and then a specific IN button to route the selected input to all outputs. For example, press ALL and then IN 2 to route input 2 to all the outputs.	
5	FREEZE Button	Press to freeze/unfreeze a display.	
6	VIDEO Button	Press to select video inputs. When pressed together with D-AUDIO/A-AUDIO, video is switched together with audio.	
7	PATTERN Button	Press the PATTERN button, followed by an OUT button to route a pattern to the selected output.	
8	D-AUDIO Button	Press to enable digital audio routing. When pressed together with VIDEO, the digital audio is routed together with the video signal.	
9	1080P Button	Press OUT button, followed by 1080P button to set the Out resolution to 1080P.	
10	A-AUDIO Button	Press to enable analog audio routing. When pressed together with VIDEO, the analog audio is routed together with the video signal.	
11	EDID Button	Press to capture the EDID of the currently selected output to its input source.	
12	ARC Button	Press ARC, an input button, and then an output button. The selected output port sources its ARC to the selected input port ARC.	
13	RCL Button	Press to recall the switch setting from a preset, followed by pressing the output button of the required previously stored preset.	
14	STO Button	Press to store the current switching setting to a preset, followed by pressing an output button (for 1 to 8 presets).	
15	LOCK Button	Press and hold to toggle locking/releasing of the front panel buttons.	
16	RUN LED	**LED Status**	**Indicates**
		Lights green	The device is working properly
		Flashes red	Switching or internal operation execution
17		**LED Status**	**Indicates**

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

P/N: 2900-301834QS   Rev: 1

| #	Feature	Function	
	STATUS LED (Status Alarm)	Flashes red	The temperature, voltage, or fan is not working properly.
		Lights green	The device is working properly.
18	ON LED	**LED Status**	**Indicates**
		Lights green	Power is supplied to device

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.
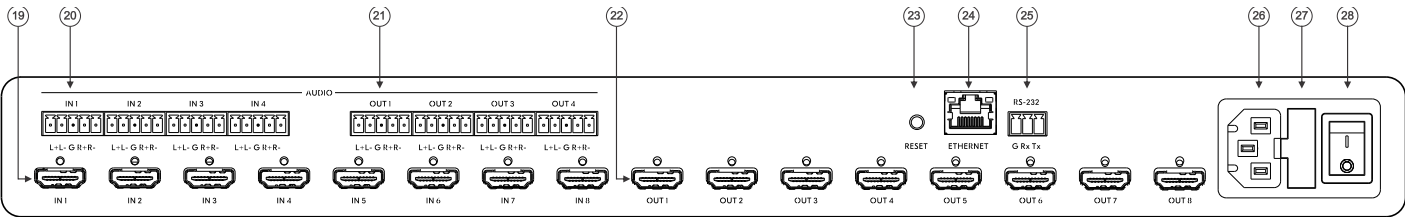
#	Feature	Function
19	IN HDMI Connectors	Connect to HDMI sources (from 1 to 8).
20	AUDIO IN on Balanced 5-pin Terminal Block Connectors	Connect to unbalanced stereo analog audio sources (from 1 to 4).
21	AUDIO OUT on 5-pin Terminal Block Connectors	Connect to balanced stereo analog audio acceptor (from 1 to 4). For information on the pinout, see Step 4:Connect inputs and outputs.
22	OUT HDMI Connectors	Connect to HDMI acceptors (from 1 to 8).
23	RESET Button	• Press and hold for 5 seconds; The device performs a factory reset and restarts. • Short press: The device restarts.
24	ETHERNET RJ-45 Port	Connect to your LAN.
25	RS-232 3-pin Terminal Block Connectors	Connect to a PC or a serial controller.
26	Mains Power Connector	Connect to the mains power.
27	Mains Power Fuse	Fuse for protecting the device.
28	Mains Power Switch	Switch for turning the device on or off.

# Step 3: Install the MTX3-88-HSA

To rack mount the machine, attach both rack ears (by removing the screws from each side of the machine and replacing those screws through the rack ears) or place the machine on a table.
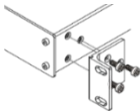
• Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
• Avoid uneven mechanical loading.
• Appropriate consideration of equipment nameplate ratings should be used for avoiding overloading of the circuits.
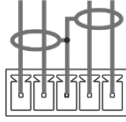• Reliable earthing of rack-mounted equipment should be maintained.

Step 4: Connect inputs and outputs

that you always use Kramer high-performance cables to connect AV equipment to the **MTX3-88-HSA**.
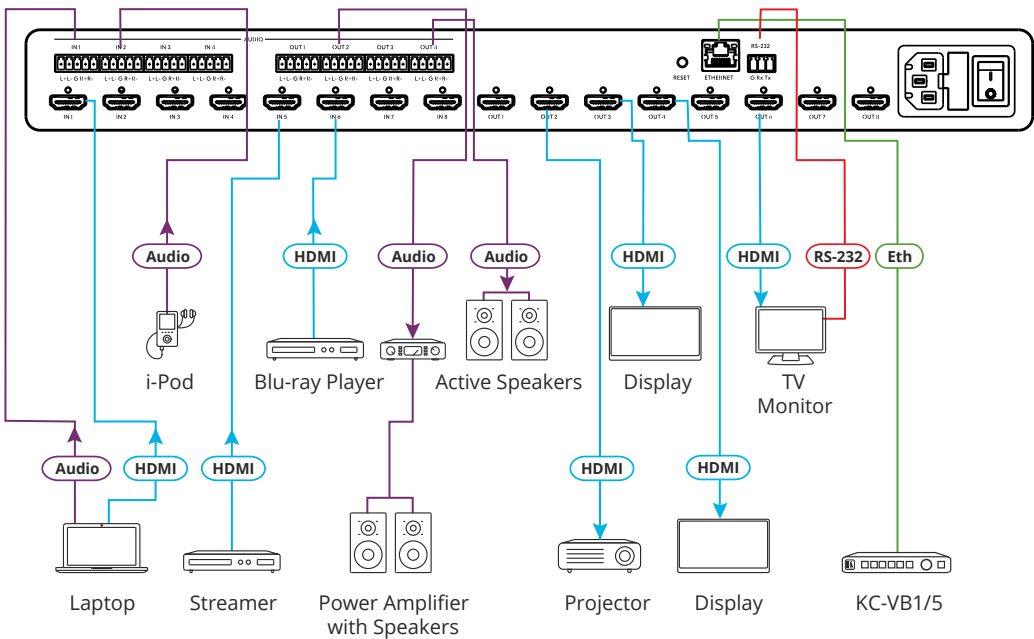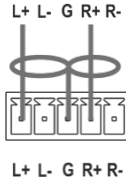
Connecting the audio output

To a balanced stereo audio acceptor:

L+ L- G R+ R-

To an unbalanced stereo audio acceptor:
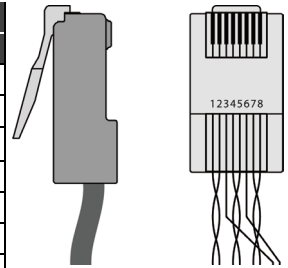
L+ L- G R+ R-

Wiring the RJ 45 Connectors

This section defines the TP pinout, using a straight pin-to-pin cable with RJ 45 connectors.

(i) For HDBT cables, it is recommended that the cable ground shielding be connected/soldered to the connector shield.

EIA /TIA 568B	
PIN	Wire Color
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Brown / White
8	Brown

12345678

(i) For optimum range and performance use the recommended Kramer cables available at www.kramerav.com/product/MTX3-88-HSA.

Using third-party cables may cause damage!

Step 5: Connect power

Connect the power cord to **MTX3-88-HSA** and plug it into the mains electricity.

⚠️ Safety Instructions (See www.kramerav.com for updated safety information)
Caution:
- For products with relay terminals and GPI\O ports, please refer to the permitted rating for an external connection, located next to the terminal or in the User Manual.
- There are no operator serviceable parts inside the unit.

Warning:
- Use only the power cord that is supplied with the unit.
- Disconnect the power and unplug the unit from the wall before installing.
- Do not open the unit. High voltages can cause electrical shock! Servicing by qualified personnel only.
- To ensure continuous risk protection, replace fuses only according to the rating specified on the product label which located on the bottom of the unit.

Step 6: Operate MTX3-88-HSA

Via the front panel buttons:

- To switch an input to an output, press an output button and then an input button to switch to that output.

- Press **ALL** to perform an action on all outputs.

RS-232	
Baud Rate:	115,200
Data Bits:	8
Stop Bits:	1
Parity:	None
Command Format:	ASCII
Example (Route input 1 to output 1):	#VID1> 1<cr>
IP – DHCP ON	
To reset the IP settings to the factory reset values, press and hold the Reset button on the rear panel for 5 seconds; the device enters # Factory and restarts.	
Fallback IP Address:	192.168.1.39
Subnet mask:	255.255.255.0
Gateway:	192.168.0.1
UDP Port #:	50000
TCP Port #:	5000
Username/ Password	Admin/ Admin
Full Factory Reset	
Protocol 3000:	"#factory" command.
Web Pages:	In the Device Settings page, click Factory Reset.

Use the front panel buttons for the following switching modes:

- Press **VIDEO** to switch the video signal of a selected input to the selected output.

- Press **D-AUDIO** (HDMI embedded audio signal) to switch the digital audio signal of a selected input to the selected output.

- Press **A-AUDIO** (analog signal on 5-pin terminal block) to switch the analog audio signal of a selected input to the selected output.

- Press **VIDEO** + **D-AUDIO** simultaneously to switch the video and digital audio signals of a selected input to the selected output.

- Press **VIDEO** + **A-AUDIO** simultaneously to switch the video and analog audio signals of a selected input to the selected output.

- Press **PATTERN** to switch a pattern signal (selected by the input buttons) to the selected output.

- Press **ARC** and then an input button to set that input source to ARC.

To set the input port EDID via the front panel buttons

To set the input port using the output monitor EDID:

1. Press **EDID**. The EDID button LED lights, indicating the EDID operation state: all input indicators off and all output indicators off.

2. Press the corresponding IN button and the button LED flashes: multiple IN buttons can be selected simultaneously.

3. Press an output button the button LED lights.

4. Press **Lock**. The LOCK button LED lights and the EDID LED flashes for about 3-5 seconds to copy output monitor EDID to the selected input port.

5. The setting was successful and the unit returns to the VIDEO switch interface.

To set input port using default EDID:

1. Press EDID. The EDID button LED lights, indicating the EDID operation state: all input indicators off and all output indicators off.

5. Press the corresponding IN button and the button LED flashes: multiple IN buttons can be selected simultaneously.

6. Press LOCK button. The LOCK button LED lights and the EDID LED flashes for about 3-5 seconds to copy the default EDID to the selected input port.

7. The setting was successful and the unit returns to the VIDEO switch interface.

To use the MTX3-88-HSA Web pages

AV Settings:	Set input and output parameters.
Device Settings:	View device parameters (model, name, serial number, and so on), set network parameters, perform firmware upgrade, and reset to factory defaults.
Security:	Set password for Admin.
EDID:	Set the default EDID or read the EDID from an output or file to one or more of the inputs.
Routing:	Route the HDMI and analog audio.
Video Wall:	Set the video wall parameters.
Gateway:	Set the CEC to gateway or bypass.
Diagnostics:	View the temperature and fan status.