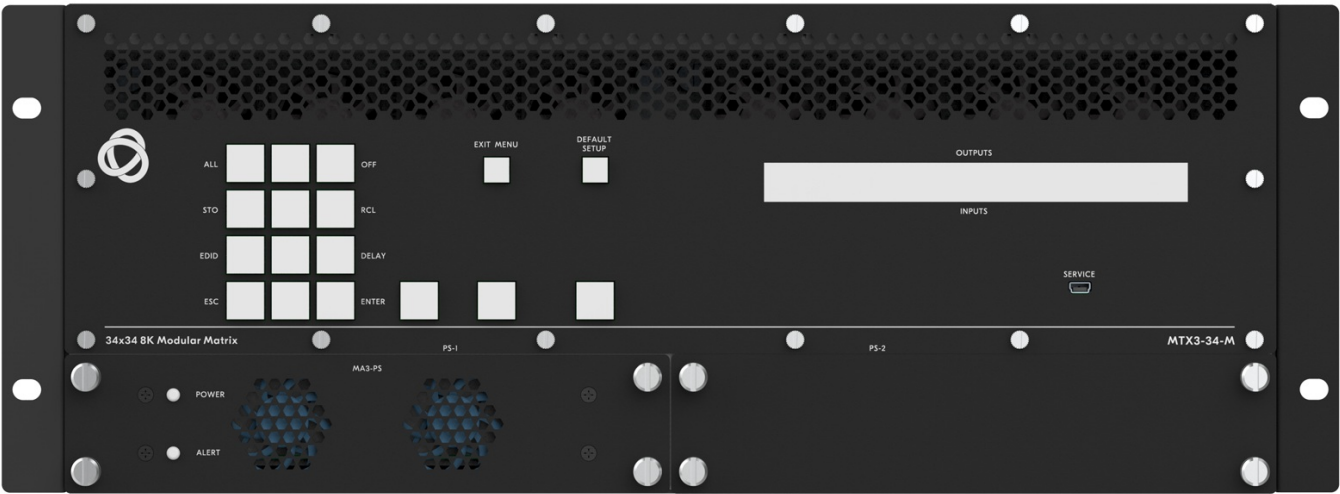


kramer MTX3-34-M Flexible Modular Matrix User Guide

[Home](#) » [Kramer](#) » kramer MTX3-34-M Flexible Modular Matrix User Guide 

kramer MTX3-34-M Flexible Modular Matrix



This guide helps you install and use your MTX3-34-M for the first time.

Go to www.kramerav.com/downloads/MTX3-34-M to download the latest user manual and check if firmware upgrades are available

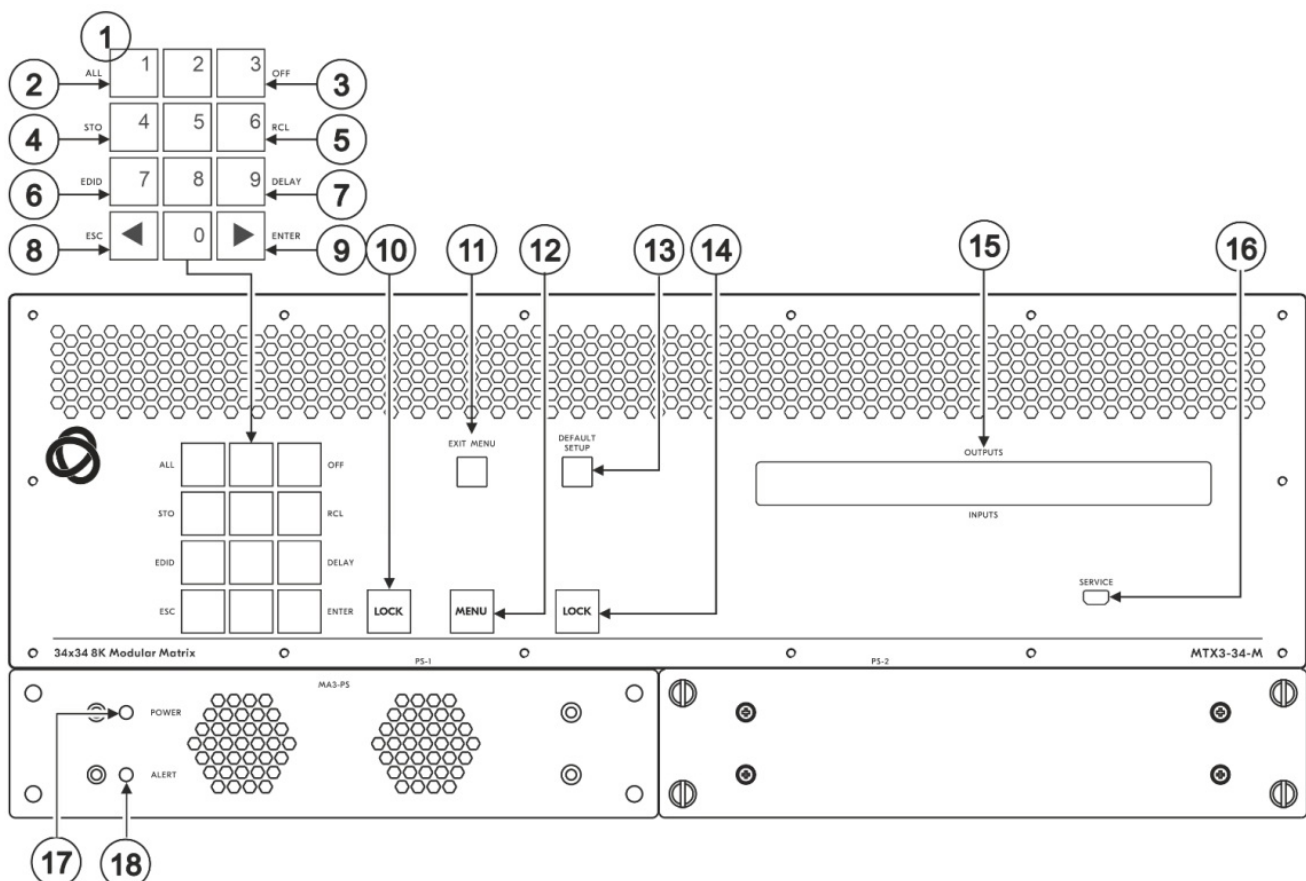
Contents

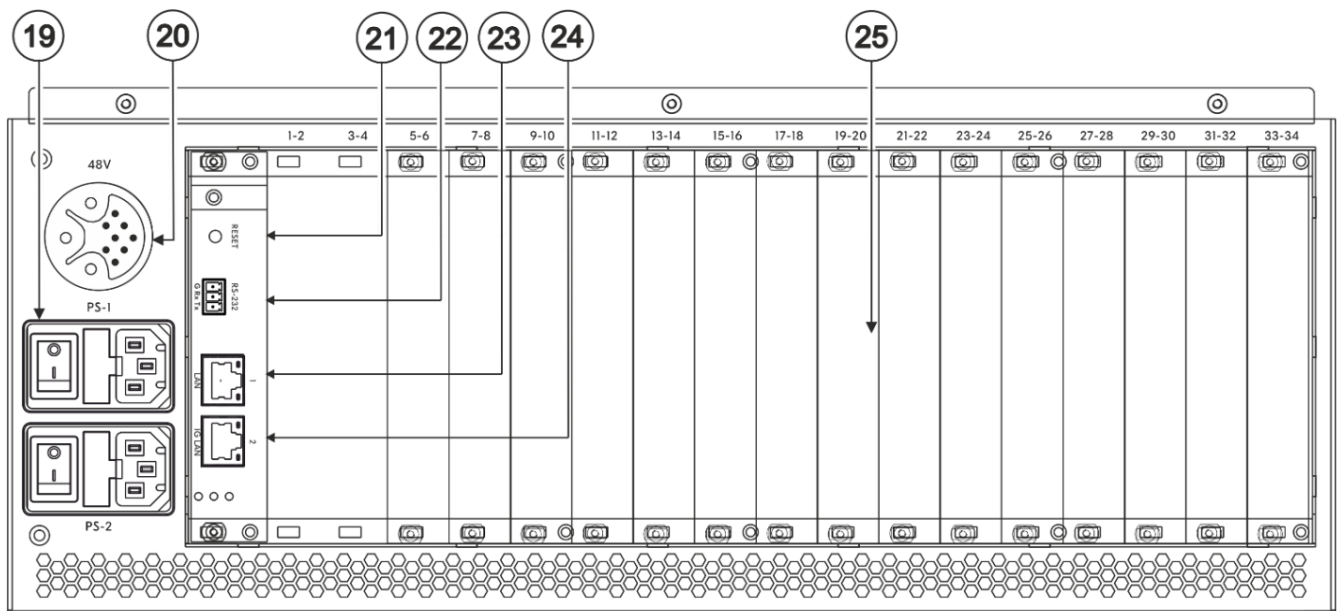
- 1 Step 1: Check what's in the box
- 2 Step 2: Get to know your MTX3-34-M
- 3 Step 3: Install the MTX3-34-M
- 4 Step 4: Connect the inputs and outputs
- 5 Step 5: Connect the power
- 6 Step 6: Set operation parameters
- 7 Step 7: Operate the MTX3-34-M
- 8 Documents / Resources
 - 8.1 References
- 9 Related Posts

Step 1: Check what's in the box


- ☒ MTX3-34-M 34×34 8K Modular Matrix
- ☒ 1 Set of rack ears (attached)
- ☒ 1 Quick start guide
- ☒ 1 Power cord

Step 2: Get to know your MTX3-34-M





#	Feature		Function	
1	Numeric Keypad	Numbers	1 to 0	
		◀ (Backward)	Move the LCD display left (when there is an extended display).	
		▶ (Forward)	Move the LCD display right (when there is an extended display).	
2	Double - Function Selector Buttons.	Menu Button Functions. Enabled and lit after pressing the MENU button 4 times.	ALL	Connect an input to all outputs.
3			STO	Store the current setup in a preset.
4			EDID	Assign EDID channels.
5			ESC	Exit the current operation.
6			OFF	Turn off an output.
7			RCL	Recall a preset.
8			DELAY	Set the delay between action confirmation and action execution on an output port.
9			ENTER	Confirm the input-output setup using a one-digit number instead of two digits. For example, to enter input 5, you can press either 05 or 5, ENTER.
10	TAKE Button		Confirm action.	
11	EXIT MENU Button		Press to exit a menu or return to switching mode.	
12	MENU Button		<p>Press 4 times to enable the ALL, STO, EDID, ESC, OFF, RCL, DELAY and ENTER buttons. Press again to enter the configuration menu.</p> <p>When in a menu, press to cycle through the menu items.</p>	
13	DEFAULT SETUP Button		Press to open the reset menu on the display.	
14	LOCK Button		Press and hold for approximately 2 sec to lock/unlock the front panel buttons. A short press returns the LCD display to the default window.	

15	OUTPUTS/INPUTS LCD Display	Displays the outputs (upper row) routed to the selected inputs (lower row). Displays user interface messages and menus.
16	SERVICE Mini USB Connector	Connect to a PC to send Protocol 3000 commands.
17	POWER LED (MA3-PS)	Lights green when the power supply is active.
18	ALERT LED (MA3-PS)	Lights red when an alert status is detected. Briefly lights red immediately following a power disruption (e.g., cable disconnection, power off, and so on).
19	Power Supply and Switch (PS-1 and PS-2)	Supply power to the device and have a fuse holder. Either PS-1 or PS-2 or both must be connected to the mains and switched on to power the device. The power LED (17) lights green.
		You can connect PS-1 and/or PS-2 (when installing the optional MA3-PS instead of the blank panel, under PS-2). If one of them fails to operate, the other can automatically power the unit.
20	48V DC Harness Connector	Connect to the MA3-PS-4812 (optional, not included) PoE power supply add-on to support PoE to the relevant matrix cards.
21	RESET Recessed Button	Press to reboot the MTX3-34-M control card.
22	RS-232 3-pin Terminal Block Connector	Connect to a remote operation PC or a remote controller.
23	NET 1 RJ-45 Connector	Connect to a PC or controller via the Ethernet LAN (100Mb).
24	NET 2-1G RJ-45 Connector	Connect to a PC or controller via the Ethernet LAN (100/1000Mb).
25	lots for up to 17 matrix cards (15 blanks cover 15 of the slots)	<p>MTX3-34-M has 17 slots for insertion of matrix cards.</p> <p>MTX3-34-M uses hot plugging, so cards can be inserted while the device is operating, and the card's ports are automatically categorized as input or output. Use the system menus to change input/output designations and to create flexible connections between the ports on different cards.</p> <p>MTX3-34-M identifies ports by the ID numbers it allocates to each card slot: See MTX3-34-M ID numbers below to understand how they are defined.</p>

MTX3-34-M ID numbers

The matrix cards that are installed to the MTX3-34-M, can have input and/or output ports. Each inserted card is allocated with 2 port ID numbers. Port input/output directions are defined per ID number. The port ID numbers are written on the chassis, next to each card-insertion slot. Ports on the upper side of the card use one ID number and ports on the lower side of the card use the next ID number.

Matrix cards can have up to 4 input/output ports, 2 for each ID number. Ports with the same ID have the same input/output direction.

Step 3: Install the MTX3-34-M

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.



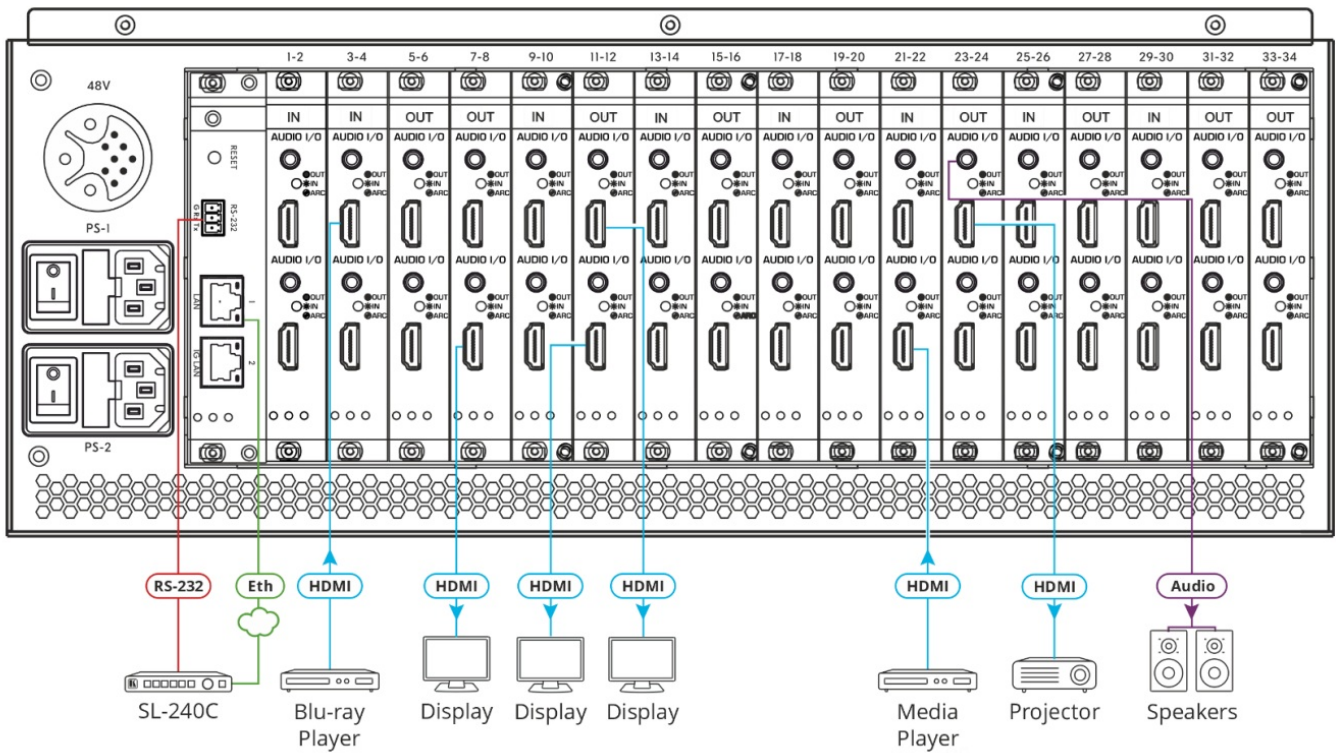
- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- Avoid uneven mechanical loading.
- Make appropriate consideration of equipment nameplate ratings to avoid overloading the circuits.
- Maintain reliable earthing of rack-mounted equipment.

Step 4: Connect the inputs and outputs

Insert the input and output cards into the card slots and then connect the inputs and the outputs.



You can insert cards into slots while the device is powered.



For optimum range and performance use the recommended Kramer cables available at www.kramerav.com/product/MTX3-34-M.

Using third-party cables may cause damage!

Step 5: Connect the power

Connect the power cord to MTX3-34-M and plug it into the mains electricity.

Safety Instructions (See www.kramerav.com for updated safety information)

Caution:

- For products with relay terminals and GPIO 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: Set operation parameters

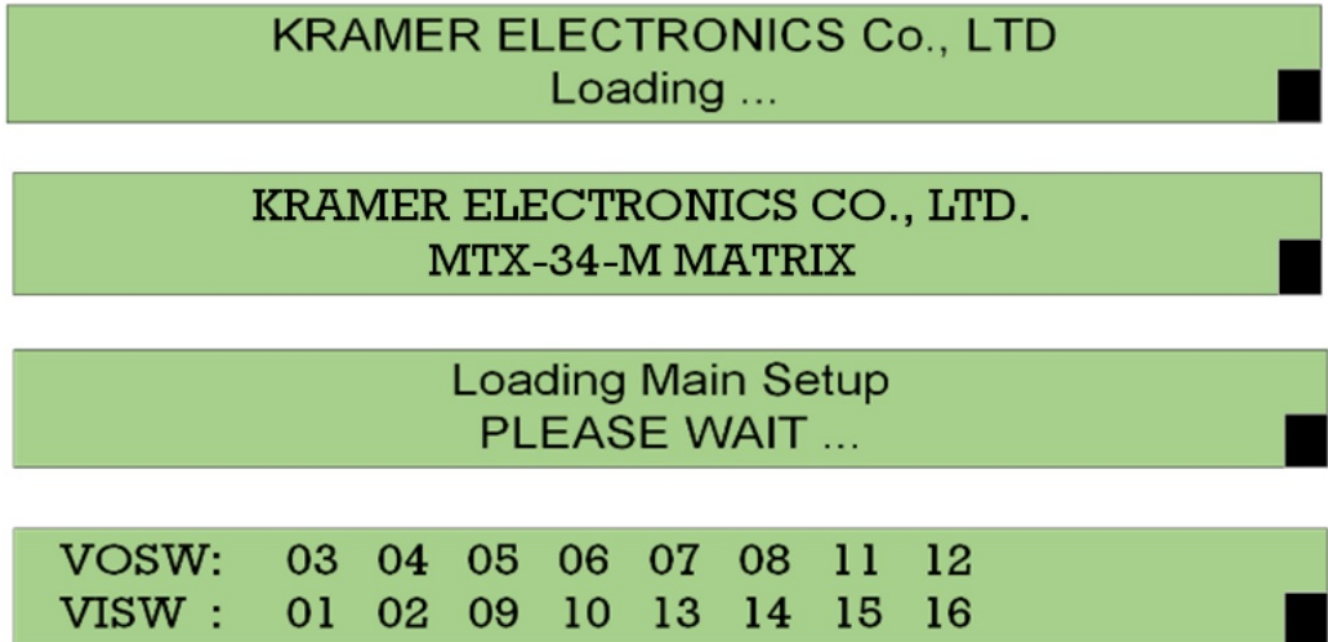
To operate **MTX3-34-M** from the front panel, use the numeric keypad.

When the unit is powered-on, the last matrix setup that was used is loaded.

To retrieve another setup, use recall setup (4 presses of the Menu button) to load a stored configuration from a preset or press Default Setup to reset the matrix to the default setup or factory default setup.

VOSW lists video output port IDs and VISW shows the video input port ID connected to the output ID above it.

While powering up, the LCD display shows the following screens in sequence:



Step 7: Operate the MTX3-34-M

Operate **MTX3-34-M** via:

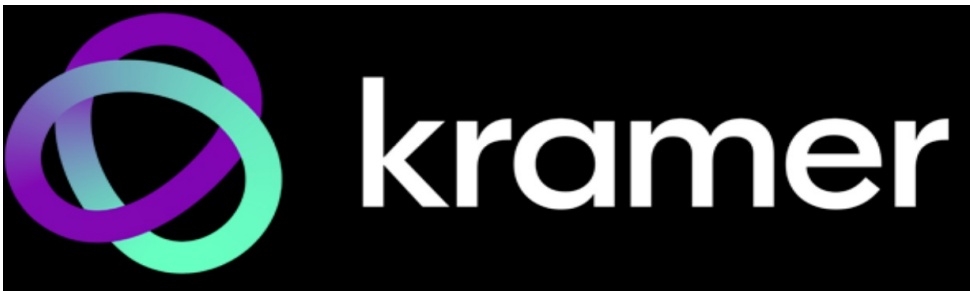
- Front panel buttons.
- Embedded web pages over the Ethernet.
The first time you enter, you will be asked to set a new password.
- Remotely, using IP or RS-232 serial communication transmitted from a touch screen system, PC or a serial controller.
- Protocol 3000 commands via IP communication over the LAN.
- Protocol 3000 commands transmitted through the mini-USB Service port.

RS-232 Control / Protocol 3000			
Baud Rate:	115,200	Parity:	None
Data Bits:	8	Command Format:	ASCII
Stop Bits:	1		
Example: (Switch video input 2 to output 4): #Vid 2>4<CR>			
Default IP Parameters			
IP Address:	192.168.1.39	UDP Port #:	50000
Subnet mask:	255.255.0.0	TCP Port #:	5000
Gateway:	192.168.0.1	Default User: Default Password:	admin M01@kramer

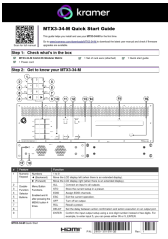
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Documents / Resources

	<p>kramer MTX3-34-M Flexible Modular Matrix [pdf] User Guide MTX3-34-M, MTX3-34-M Flexible Modular Matrix, Flexible Modular Matrix, Modular Matrix, Matrix</p>
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References

- [Kramer | Audio Visual Solutions - Kramer](#)
- [Kramer | Audio Visual Solutions - Kramer](#)
- [Application Diagrams - Kramer Electronics](#)
- kramerav.com/product/MTX3-34-M

