18Gbps 16×16 HDMI Matrix with ARC Function

4K60 4:4:4 Matrix Switcher with Coaxial Audio De-embedding & ARC



Route sixteen HDMI sources to sixteen displays with full 4K60 4:4:4 fidelity and independent coaxial audio de-embedding on every output. The KanexPro MMX-16X16AUD is an 18Gbps 16×16 HDMI matrix switcher that delivers seamless routing of ultra-high-definition video and multi-channel digital audio across large-scale AV environments — with dedicated coaxial audio outputs on all sixteen channels.

Compliant with HDMI 2.0b, HDCP 2.2/1.x, and DVI 1.0, the matrix supports HDR10, HDR10+, Dolby Vision, and HLG pass-through alongside Dolby Atmos and DTS:X audio. Each output features an independent 4K-to-1080p downscaler for mixed-resolution displays. ARC support extracts audio from connected displays to coaxial output. Control via front panel OLED, IR remote, RS-232, TCP/IP, and Web GUI. 1U rack-mountable. In RelayAV, KanexPro's control app (with a KanexPro AV-over-IP encoder or a Mac running RelayAV on the same network), you drag a source onto a screen to route it, see at a glance which inputs have a picture, and use each source's and screen's remote from the same page.

Surge Protection Recommended — This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, or lightning strikes. Use of surge protection systems is highly recommended.

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1. Features

- ✓ Routes 16 HDMI 2.0b sources to 16 displays at up to 4K2K@60Hz 4:4:4 with 18Gbps bandwidth on every port
- ✓ HDCP 2.2/1.x and DVI 1.0 compliant — supports protected content across all input and output channels
- ✓ HDR10, HDR10+, Dolby Vision, and HLG pass-through preserves HDR metadata end-to-end
- ✓ Audio pass-through up to 7.1-channel HD audio including LPCM, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, and DTS:X
- ✓ Independent coaxial audio de-embedding on all 16 outputs — supports LPCM 2.0, Dolby Digital/DD+, and DTS 5.1
- ✓ Controlled in RelayAV, KanexPro's control app, with a KanexPro AV-over-IP encoder or a Mac running RelayAV on the same network: drag a source onto a screen to route it, see which inputs have a picture and which outputs have a screen, turn each output on or off, recall named presets, and use each source's and screen's remote over CEC; streaming boxes (Roku, Fire TV, Apple TV, Google TV) get their own remote over the network
- ✓ Through the AV-over-IP encoder or Mac running RelayAV, Control4, Crestron and RTI reach the matrix with plain device commands (route, presets, power, remote keys), and every command is open over RelayAV's API, or to an AI assistant over MCP
- ✓ ARC function on HDMI outputs extracts display audio to coaxial output — ideal for soundbar and amplifier integration
- ✓ Independent 4K→1080p downscaler on each output for mixed-resolution display environments
- ✓ Smart EDID management with 21 built-in presets, 2 user-defined, and 16 copy modes; CEC pass-through
- ✓ CEC control of every source (power, menu, navigation, playback, volume) and display (power, volume, active source) from RS-232, TCP/IP or the Web GUI
- ✓ Control via front panel (OLED), IR remote, RS-232, TCP/IP, and Web GUI — 1U rack-mountable

2. Package Contents

- ✓ 1× 18Gbps 16×16 HDMI Matrix
- ✓ 1× 24V/3.75A Power Adapter
- ✓ 1× IR Remote
- ✓ 1× RS-232 Cable (1.5m, male to female)
- ✓ 2× Mounting Ears

3. Specifications

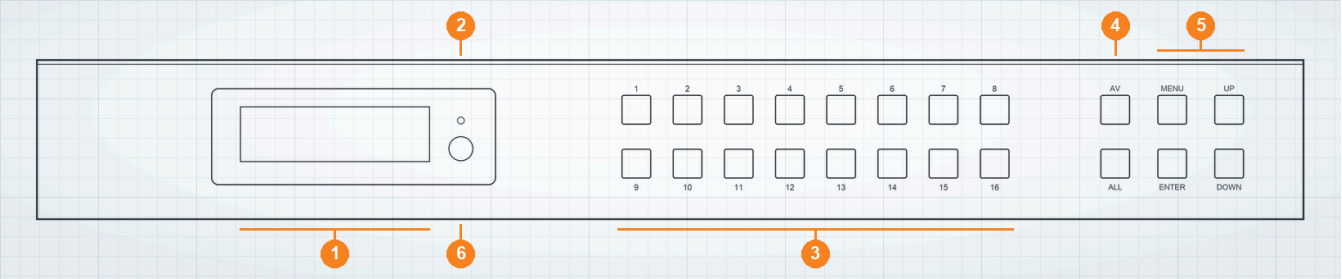
TECHNICAL	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2/1.x • DVI 1.0
Video Bandwidth	18 Gbps
Video Resolution	Up to 4K2K@60Hz (4:4:4)
Color Depth	8-bit, 10-bit, 12-bit
Color Space	RGB, YCbCr 4:4:4 / 4:2:2 / 4:2:0
HDR Formats	HDR10, HDR10+, Dolby Vision, HLG
HDMI Audio (Pass-through)	LPCM 2/5.1/7.1, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Coax Audio Formats	LPCM 2.0, Dolby Digital / Plus, DTS 5.1
ESD Protection	IEC 61000-4-2: ±8kV (air-gap) & ±4kV (contact)
CONNECTION	
Input	16× HDMI Type A [19-pin female]
Output	16× HDMI Type A [19-pin female], 16× Coaxial Audio (RCA)
Control	1× TCP/IP [RJ45] • 1× RS-232 [D-Sub 9]
MECHANICAL	
Housing	Metal Enclosure, Black
Dimensions	440mm (W) × 200mm (D) × 44mm (H) — 1U
Weight	3.1 kg
Power Supply	AC 100–240V 50/60Hz → DC 24V/3.75A
Power Consumption	76.8W
Operating Temp	14–113°F / −10–45°C
Storage Temp	−4–140°F / −20–60°C
Humidity	20–90% RH (non-condensing)
CABLE LENGTH	
Cable Length (4K60)	Up to 16 ft / 5m
Cable Length (4K30)	Up to 32 ft / 10m
Cable Length (1080p60)	Up to 50 ft / 15m

4. Introduction

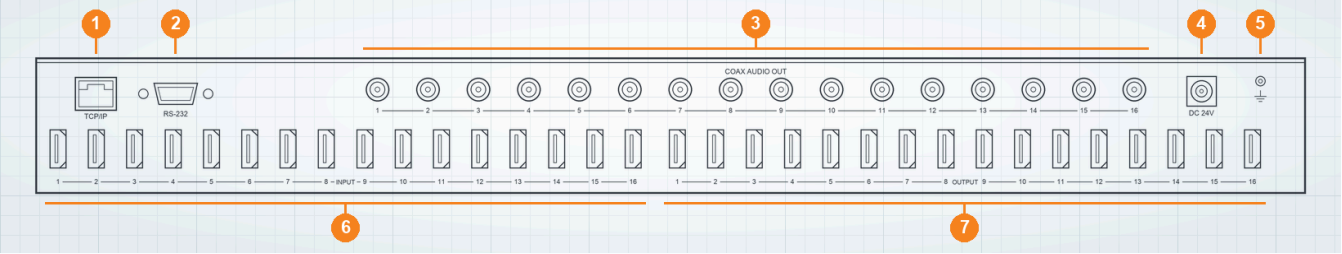
The KanexPro MMX-16X16AUD is an 18Gbps 16×16 HDMI matrix switcher. It routes up to sixteen HDMI sources to up to sixteen displays at resolutions up to 4K2K@60Hz 4:4:4. Audio from all sixteen HDMI outputs is de-embedded to a dedicated coaxial audio port for each output. When you enable ARC on an output, that output's coaxial port can carry the return audio from the connected display. Each output also has its own 4K-to-1080p downscaler.

You can control the matrix from the front-panel buttons, the IR remote, RS-232, TCP/IP or the built-in Web GUI.

5. Panel descriptions



Front panel



Rear panel

FRONT PANEL

No.	Name	Function Description
1	**OLED Screen**	Shows the matrix switching status, which input is routed to each output, the EDID mode, the baud rate and the IP address.
2	**Power LED**	Lights green when the matrix is on and red when it is in standby.
3	**Buttons (1–16)**	Input and output selection buttons. To route a source, press its input button (1–16), then AV, then the output button (1–16) or ALL.
4	**AV / ALL**	AV confirms the input-to-output route. ALL sends the selected input to all 16 outputs.
5	**MENU / ENTER / UP / DOWN**	Use these to move through the OLED menu and set the EDID, baud rate and IP address.
6	**IR Window**	Receives signals from the included IR remote. Keep it in line of sight of the remote.

REAR PANEL

No.	Name	Function Description
1	**TCP/IP**	RJ45 LAN port for the Web GUI and TCP/IP control. Connect it to your network.
2	**RS-232**	D-Sub 9-pin serial control port.
3	**AUDIO OUT (1–16)**	Coaxial (RCA) audio outputs. Each port carries the audio de-embedded from the HDMI output with the same number. When ARC is enabled on that output, the port carries the return audio from the connected display.
4	**DC 24V**	Connect the included 24V/3.75A power adapter here.
5	**GND**	Ground terminal. Connect it to earth ground to ground the housing.
6	**INPUT (1–16)**	HDMI inputs. Connect your source devices here.
7	**OUTPUT (1–16)**	HDMI outputs. Connect your displays here.

6. Certifications

The manual states that the included power adapter is CE, FCC and UL certified. It gives no certification for the matrix itself.

7. IR Remote

The included IR remote routes sources directly to displays. Press the input button for the source you want (Input 1–16), then the output button for the display (Output 1–16). Press ALL instead of an output to send that source to every display.

NO.	BUTTON	FUNCTION
1	Power	Turns the matrix on or puts it in standby.
2	Input 1–16	Selects the input source.
3	Output 1–16	Selects the output destination.
4	ALL	Routes the selected input to all 16 outputs at once.

8. EDID Management

The matrix has 39 EDID modes: 21 built-in modes, 2 user-defined modes and 16 modes that copy the EDID from a connected display. You can set the EDID for each input from the front panel, over RS-232 or in the Web GUI. Every input starts on mode 1 (1080p, Stereo Audio 2.0).

#	EDID DESCRIPTION
1	1080p, Stereo Audio 2.0
2	1080p, Dolby/DTS 5.1
3	1080p, HD Audio 7.1
4	1080i, Stereo Audio 2.0
5	1080i, Dolby/DTS 5.1

continued

#	EDID DESCRIPTION
6	1080i, HD Audio 7.1
7	3D, Stereo Audio 2.0
8	3D, Dolby/DTS 5.1
9	3D, HD Audio 7.1
10	4K2K30_444, Stereo Audio 2.0
11	4K2K30_444, Dolby/DTS 5.1
12	4K2K30_444, HD Audio 7.1
13	4K2K60_420, Stereo Audio 2.0
14	4K2K60_420, Dolby/DTS 5.1
15	4K2K60_420, HD Audio 7.1
16	4K2K60_444, Stereo Audio 2.0
17	4K2K60_444, Dolby/DTS 5.1
18	4K2K60_444, HD Audio 7.1
19	4K2K60_444, Stereo 2.0 HDR
20	4K2K60_444, Dolby/DTS 5.1 HDR
21	4K2K60_444, HD Audio 7.1 HDR
22	User 1
23	User 2
24–39	Copy from HDMI Output 1–16

You can load your own EDID files into User 1 and User 2 from the Web GUI's Input page.

9. Default Settings

PARAMETER	DEFAULT VALUE
IP Mode	Static
IP Address	192.168.1.100
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
TCP/IP Port	8000
Telnet Port	23
Serial Baud Rate	115200 (8N1)
Panel Lock	Off
Beep	On
LCD Timeout	30 seconds

continued

PARAMETER	DEFAULT VALUE
Default EDID	1: 1080p, Stereo Audio 2.0
ARC	Off
Scaler Mode	Bypass
Video Routing	Point-to-Point (PTP)

10. Web GUI User Guide

Connect the matrix's TCP/IP port to your network. In a web browser, go to the matrix's IP address (192.168.1.100 by default). Log in as **Admin** or as **User**. The Admin account has full access. The User account can only route sources and use presets.

STATUS PAGE

This page shows the device model number, firmware version, hostname, IP address, subnet mask, gateway and MAC address. Use it to confirm the network connection and check the firmware version.

VIDEO PAGE

Use the drop-down selectors to route any input to any output, one output at a time or several at once. You can save, recall and clear up to 8 presets, each with a custom name of up to 12 characters. A preset stores the complete routing table, so recalling it restores every route at once.

INPUT PAGE

This page shows whether each input has an active signal. You can also rename inputs and set the EDID for each input from the 39 available modes (21 built-in, 2 user and 16 copy). Upload your own EDID files to the User 1 or User 2 slot, or download the current EDID from any input for backup or analysis.

OUTPUT PAGE

This page shows whether a cable is connected to each output. You can rename outputs and change the following settings for each one:

- **Scaler Mode.** Bypass passes the native resolution through. 4K→1080p always downscales. Auto decides from the display's EDID.
- **ARC.** Turns the Audio Return Channel on or off for that output. When it is on, audio from the display is sent to the coaxial port with the same number.
- **Stream.** Turns the HDMI output signal on or off for that output. Use it to switch off outputs you are not using.

CEC PAGE

Under **Input Control**, you can send CEC commands to connected sources: power on and off, menu navigation (up, down, left, right, enter and back), playback (play, pause, stop, rewind, fast-forward, previous and next) and volume (volume up, volume down and mute).

Under **Output Control**, you can send CEC commands to connected displays: power on and off, volume up and down, mute, and switching the active source. You can send each command to one output or to all outputs.

NETWORK PAGE

Set the IP mode (Static or DHCP), IP address, subnet mask, gateway and telnet port here. You can also change the Admin and User passwords. The network reset on this page restores the default network settings without changing routing or any other settings.

SYSTEM PAGE

These system-level settings are on this page:

- **Panel Lock** locks or unlocks the front-panel buttons to prevent unauthorized changes.
- **Beep** turns the key-press tone on or off.
- **LCD Timeout** sets how long the OLED backlight stays on. The options are Off, Always On, 15s, 30s and 60s.
- **Serial Baud Rate** sets the RS-232 speed. The options are 4800, 9600, 19200, 38400, 57600 and 115200.
- **Firmware Update** uploads new firmware through the Web GUI.
- **Factory Reset** restores all settings to KanexPro defaults.
- **Reboot** restarts the matrix remotely.

11. RS-232 Control Commands

Connect to the matrix's D-Sub 9-pin RS-232 port with these settings: 115200 baud, 8 data bits, 1 stop bit, no parity. Every command ends with the `!` delimiter. In the tables below, `x` stands for an input number, `y` for an output number and `z` for a value. Where a range includes 0, 0 means all ports.

POWER

COMMAND	FUNCTION	DEFAULT
`s power z!`	Power on or off (z=0 off, z=1 on)	power on
`r power!`	Get the current power state	—
`s reboot!`	Reboot the device	—

SYSTEM SETUP

COMMAND	FUNCTION	DEFAULT
`help!`	List all commands	—
`r type!`	Get the device model	—
`r status!`	Get all device status	—
`r link in x!`	Get the connection status of input x (x=0–16, 0=all)	—
`r link out y!`	Get the connection status of output y (y=0–16, 0=all)	—
`s reset!`	Reset to KanexPro defaults	—
`s beep z!`	Turn the beep on or off (z=0 off, z=1 on)	on
`r beep!`	Get the beep state	—
`r fw version!`	Get the firmware version	—
`s lock z!`	Lock or unlock the front panel (z=0 off, z=1 on)	off
`r lock!`	Get the panel lock state	—
`s lcd on time z!`	Set the LCD timeout (z=0 off, 1 always on, 2 15s, 3 30s, 4 60s)	30s
`r lcd mode!`	Get the LCD backlight status	—

PRESETS

COMMAND	FUNCTION	DEFAULT
`s save preset z!`	Save the current routing to preset z (z=1–8)	—
`s recall preset z!`	Recall preset z (z=1–8)	—
`s clear preset z!`	Clear preset z (z=1–8)	—
`r preset z!`	Get preset z information (z=1–8)	—

OUTPUT / VIDEO ROUTING

COMMAND	FUNCTION	DEFAULT
`s in x av out y!`	Route input x to output y (x=1–16, y=0–16, 0=all)	PTP
`r av out y!`	Get the signal status of output y (y=0–16, 0=all)	—
`s hdmi y stream z!`	Turn the output stream on or off (y=0–16, z=0/1)	enable
`r hdmi y stream!`	Get the output stream status (y=0–16, 0=all)	—
`s hdmi y scaler z!`	Set the scaler (y=0–16; z=1 bypass, 2 4K→1080p, 3 auto)	bypass
`r hdmi y scaler!`	Get the scaler mode (y=0–16, 0=all)	—

EDID SETTING

COMMAND	FUNCTION	DEFAULT
`s edid in x from z!`	Set input x to EDID mode z (x=0–16, z=1–39)	1: 1080p, Stereo 2.0
`r edid in x!`	Get the EDID status of input x (x=0–16, 0=all)	—
`r edid data hdmi y!`	Get the EDID data from HDMI output y (y=1–16)	—

AUDIO / ARC SETTING

COMMAND	FUNCTION	DEFAULT
`s hdmi y arc z!`	Turn ARC on or off for output y (y=0–16, z=0/1)	off
`r hdmi y arc!`	Get the ARC state of output y (y=0–16, 0=all)	—

CEC: INPUT CONTROL

COMMAND	FUNCTION	DEFAULT
`s cec in x on!`	CEC power on for input x (x=0–16, 0=all)	—
`s cec in x off!`	CEC power off for input x	—

continued

COMMAND	FUNCTION	DEFAULT
s cec in x menu!	Open the menu on input x	—
s cec in x up!	Menu up on input x	—
s cec in x down!	Menu down on input x	—
s cec in x left!	Menu left on input x	—
s cec in x right!	Menu right on input x	—
s cec in x enter!	Menu enter on input x	—
s cec in x back!	Back on input x	—
s cec in x play!	Play on input x	—
s cec in x pause!	Pause on input x	—
s cec in x stop!	Stop on input x	—
s cec in x rew!	Rewind on input x	—
s cec in x ff!	Fast forward on input x	—
s cec in x previous!	Previous track on input x	—
s cec in x next!	Next track on input x	—
s cec in x vol+!	Volume up on input x	—
s cec in x vol-!	Volume down on input x	—
s cec in x mute!	Mute on input x	—

CEC: OUTPUT CONTROL

COMMAND	FUNCTION	DEFAULT
s cec hdmi out y on!	CEC power on for output y (y=0–16, 0=all)	—
s cec hdmi out y off!	CEC power off for output y	—
s cec hdmi out y vol+!	Volume up on output y	—
s cec hdmi out y vol-!	Volume down on output y	—
s cec hdmi out y mute!	Mute on output y	—
s cec hdmi out y active!	Set the active source on output y	—

NETWORK SETTING

COMMAND	FUNCTION	DEFAULT
r ipconfig!	Get the current IP configuration	—
r mac addr!	Get the MAC address	—
s ip mode z!	Set Static (z=0) or DHCP (z=1)	Static
r ip mode!	Get the IP mode	—

continued

COMMAND	FUNCTION	DEFAULT
s ip addr xxx.xxx.xxx.xxx!	Set the IP address	192.168.1.100
r ip addr!	Get the IP address	—
s subnet xxx.xxx.xxx.xxx!	Set the subnet mask	255.255.255.0
r subnet!	Get the subnet mask	—
s gateway xxx.xxx.xxx.xxx!	Set the gateway	192.168.0.1
r gateway!	Get the gateway	—
s tcp/ip port x!	Set the TCP/IP port (x=1–65535)	8000
r tcp/ip port!	Get the TCP/IP port	—
s telnet port x!	Set the telnet port (x=1–65535)	23
r telnet port!	Get the telnet port	—
s net reboot!	Reboot the network modules	—

NAMING / LABELS

COMMAND	FUNCTION	DEFAULT
s in x name yyyy!	Set the name of input x (x=1–16, up to 12 characters)	IN1–IN16
r in x name!	Get the name of input x (x=0–16, 0=all)	—
s out y name yyyy!	Set the name of output y (y=1–16, up to 12 characters)	OUT1–OUT16
r out y name!	Get the name of output y (y=0–16, 0=all)	—
s preset z name yyyy!	Set the name of preset z (z=1–8, up to 12 characters)	Preset1–8
r preset z name!	Get the name of preset z (z=0–8, 0=all)	—

BAUD RATE

COMMAND	FUNCTION	DEFAULT
s baud rate z!	Set the baud rate (z=1 4800, 2 9600, 3 19200, 4 38400, 5 57600, 6 115200)	115200
r baud rate!	Get the current baud rate	—

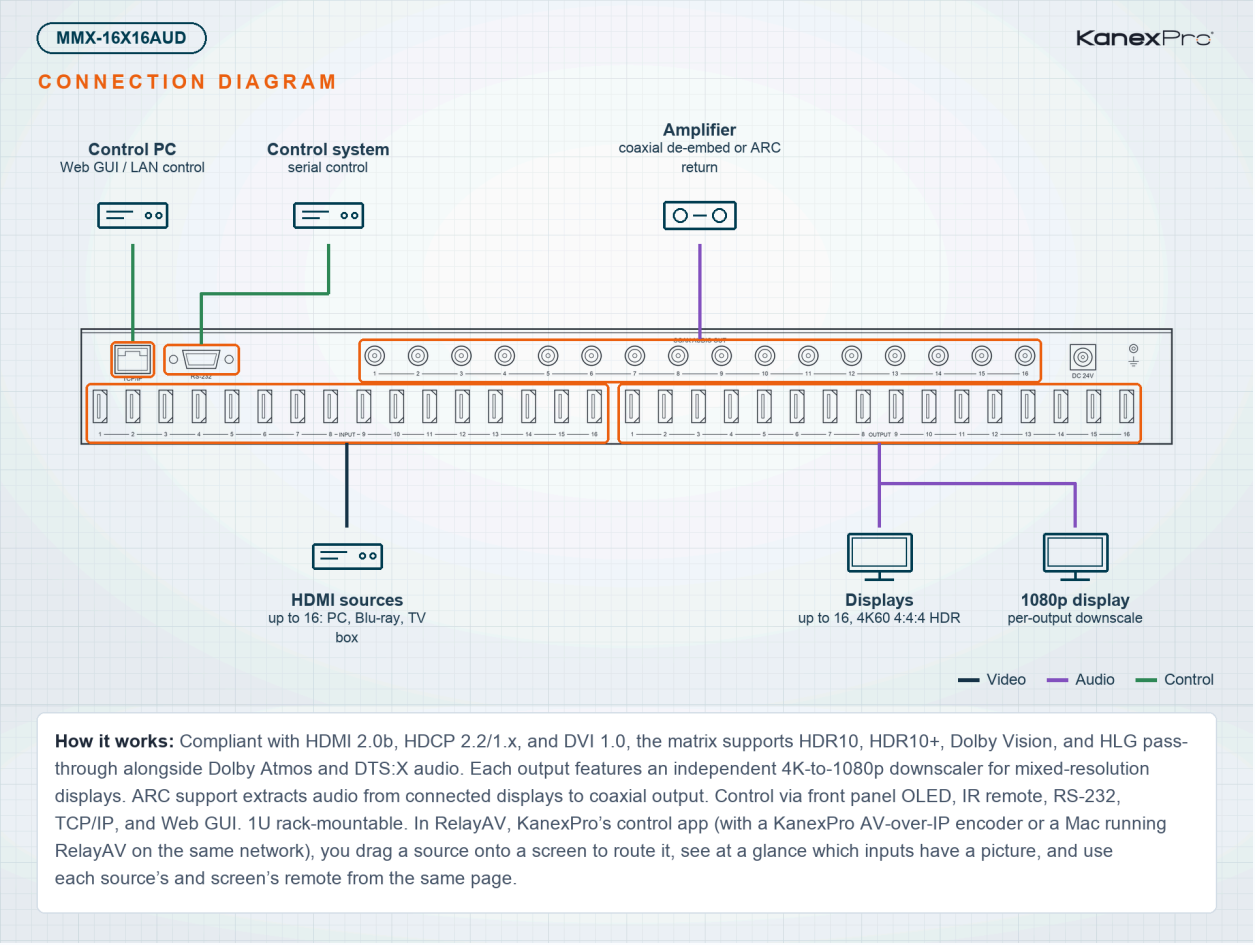
12. Quick checks

My amplifier, connected to a coaxial output, has no audio. Make sure the coaxial cable is in the AUDIO OUT port with the same number as the HDMI output you are using. If you are using ARC, check that ARC is enabled for that output, either in the Web GUI or with the RS-232 command `s hdmi y arc 1!`. Also check that ARC/CEC output is enabled on the TV.

One or more displays show no video. Use Premium High Speed HDMI cables, no longer than 16 ft (5m) for 4K60. Set the input EDID to match the display's resolution. If your displays have different resolutions, turn on the 4K→1080p downscaler for the lower-resolution outputs.

How do I open the Web GUI? Connect the TCP/IP port to your network and browse to the default IP address, 192.168.1.100. Sign in as Admin.

13. Connection Diagram



How it works: Compliant with HDMI 2.0b, HDCP 2.2/1.x, and DVI 1.0, the matrix supports HDR10, HDR10+, Dolby Vision, and HLG pass-through alongside Dolby Atmos and DTS:X audio. Each output features an independent 4K-to-1080p downscaler for mixed-resolution displays. ARC support extracts audio from connected displays to coaxial output. Control via front panel OLED, IR remote, RS-232, TCP/IP, and Web GUI. 1U rack-mountable. In RelayAV, KanexPro's control app (with a KanexPro AV-over-IP encoder or a Mac running RelayAV on the same network), you drag a source onto a screen to route it, see at a glance which inputs have a picture, and use each source's and screen's remote from the same page.

14. Troubleshooting

Q: The front-panel buttons do not respond. What should I check?
A: First check that the Power LED is green; if it is red, the matrix is in standby. If the unit is on, Panel Lock is probably enabled. Turn it off on the Web GUI System page or with the RS-232 command s lock 0!.

Q: The IR remote does not change routes. What should I check?
A: Make sure the remote has a clear line of sight to the IR window on the front panel. Then press an Input button (1-16) followed by an Output button (1-16), or ALL to send that input to every output.

Q: The matrix does not answer RS-232 commands. What should I check?
A: Check the baud rate on the OLED screen and set your controller to match it, using 8 data bits, 1 stop bit and no parity (115200 is the default). Every command must end with the ! delimiter. Send help! to confirm the link is working.

Q: A display stays blank even though its route is set. What should I check?
A: Check that the output's Stream setting is on, on the Web GUI Output page or with s hdmi y stream 1!. Next, use r link out y! to confirm the matrix sees the cable at that output. If the display is 1080p and the source is 4K, set that output's scaler to 4K to 1080p or Auto.

Q: I cannot reach the matrix on the network after changing its settings. What should I check?
A: Read the current IP address on the front-panel OLED screen, or send r ipconfig! over RS-232. Then make sure your computer is on the same subnet. If needed, set a new IP from the front-panel menu or with s ip addr xxx.xxx.xxx.xxx! over RS-232.

Need help? — For additional support, visit kanexpro.com/support, or scan the QR code below for the product page.

15. Installation FAQ

Q: How do I connect an amplifier or soundbar to the coaxial audio outputs?
A: Run an RCA coaxial cable from the AUDIO OUT port that has the same number as the HDMI output you want to hear. Each AUDIO OUT port carries the audio de-embedded from that HDMI output, or the TV's return audio if ARC is turned on for that output.

Q: What is the GND terminal on the rear panel for?
A: The GND terminal grounds the metal housing. Connect it to earth ground. A surge protection system is also strongly recommended to protect the unit from electrical spikes and lightning.

Q: How do I put the MMX-16X16AUD on my network?
A: Connect the rear TCP/IP RJ45 port to your network. The unit ships set to a static IP. You can switch it to DHCP or set a new static IP, subnet mask and gateway from the front-panel MENU, ENTER, UP and DOWN buttons, on the Web GUI Network page, or over RS-232 with s ip mode 1! for DHCP.

Q: What comes in the box?
A: The box contains the 16x16 matrix, a 24V/3.75A power adapter, an IR remote, a 1.5m (4.9 ft) male-to-female RS-232 cable and two mounting ears for a 1U rack.

Q: What do the front-panel Power LED and OLED screen show?
A: The Power LED is green when the matrix is on and red when it is in standby. The OLED screen shows which input is routed to each output, plus the EDID mode, baud rate and IP address.

16. Integration FAQ

Q: Can the MMX-16X16AUD control connected sources and displays over CEC?
A: Yes. From the Web GUI CEC page or over RS-232 you can power sources on and off, navigate their menus, control playback and adjust volume, for example s cec in 1 play!. You can also power displays on and off, change their volume, mute them and set the active source, for example s cec hdmi out 0 off! to turn off every display.

Q: Which TCP/IP and Telnet ports does the MMX-16X16AUD use?
A: The TCP/IP control port defaults to 8000 and the Telnet port to 23. You can change either one to any value from 1 to 65535, with s tcp/ip port x! or s telnet port x!. The Telnet port can also be changed on the Web GUI Network page.

Q: Can a control system read back input and output status?
A: Yes. r link in 0! and r link out 0! report the connection status of every input and output, r av out 0! reports the signal status of every output, and r status! returns the full device status. Use 0 for all ports or a port number for one.

Q: Can I give inputs, outputs and presets names a control system or user will recognize?
A: Yes. Each input, output and each of the 8 presets takes a name of up to 12 characters, for example s in 1 name BluRay!. You can also rename inputs, outputs and presets in the Web GUI.

Q: Can I give some users routing access without letting them change settings?
A: Yes. The Web GUI has an Admin account with full access and a User account that can only route sources and use presets.