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VS-44H2A Quick Start Guide

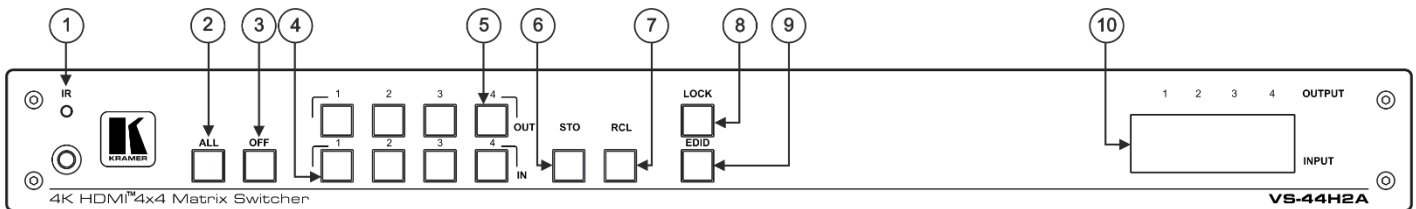
This guide helps you install and use your VS-44H2A for the first time.

Go to www.kramerav.com/downloads/VS-44H2A to download the latest user manual and check if firmware upgrades are available.

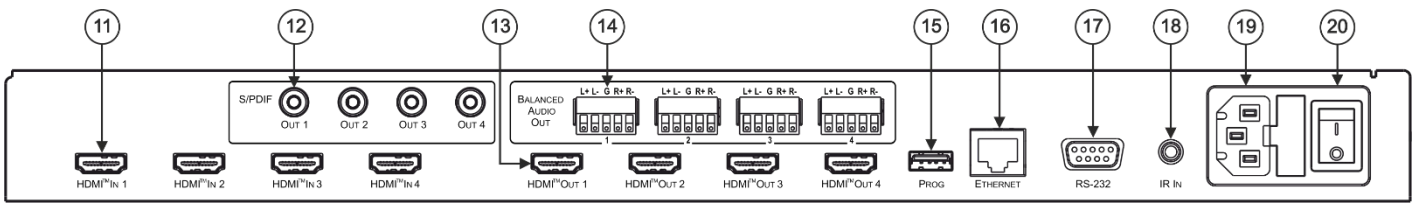
Step 1: Check what's in the box

- ✓ VS-44H2A 4K HDMI 4x4 Matrix Switcher
- ✓ Remote control transmitter with batteries
- ✓ 1 Set of rack ears
- ✓ 1 Power cord
- ✓ 4 Rubber feet
- ✓ 1 Quick start guide

Step 2: Get to know your VS-44H2A



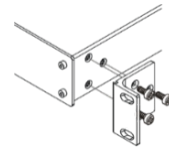
#	Feature	Function
1	IR Sensor	Receives signals from the infrared remote-control transmitter.
	IR LED	Lights yellow when receiving an IR signal.
2	ALL Button	Press followed by an input button to connect the selected input to all outputs. For example, press ALL and then Input button # 2 to connect input # 2 to all the outputs.
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	IN Select Buttons (1 to 4)	Press to select the input to switch after selecting an output (also used for storing machine setups).
5	OUT Select Buttons (1 to 4)	Press to select an output to switch followed by an input.
6	STO Button	Press STO followed by an INPUT (1 to 4) button to store the current switching configuration to the location corresponding to that INPUT number.
7	RCL Button	Press RCL followed by the corresponding INPUT (1 to 4) button to recall the preset switching configuration saved in that location.
8	LOCK Button	Press and hold to toggle the locking/release of the front panel buttons.
9	EDID Button	Press EDID + STO buttons to enter the EDID mode.
10	OUTPUT/INPUT 7-segment LED Display	Displays the input currently switched to the output which is marked above each input.



#	Feature	Function
11	HDMI™ IN Connectors (1 to 4)	Connect to up to 4 HDMI sources.
12	S/PDIF OUT (coaxial) RCA Connectors (1 to 4)	Connect to up to 4 digital audio acceptors.
13	HDMI OUT Connectors (1 to 4)	Connect to up to 4 HDMI acceptors.
14	BALANCED AUDIO OUT Terminal Block Connectors (1 to 4)	Connect to up to 4 balanced stereo audio acceptors.
15	PROG USB Connector	Connect to a USB stick to perform firmware upgrades.
16	ETHERNET RJ-45 Connector	Connect to a PC via a LAN.
17	RS-232 9-pin D-sub Connector	Connect to a PC/serial controller.
18	IR IN 3.5mm Mini Jack Connector	Connect to an external IR receiver for controlling the device via IR remote controller Covered by a cap. The 3.5mm jack at the end of the internal IR connection cable fits into this opening.
19	Mains Power Connector and Fuse	Plug in the power cord.
20	Power Illuminated Switch	Turn the device on and off.

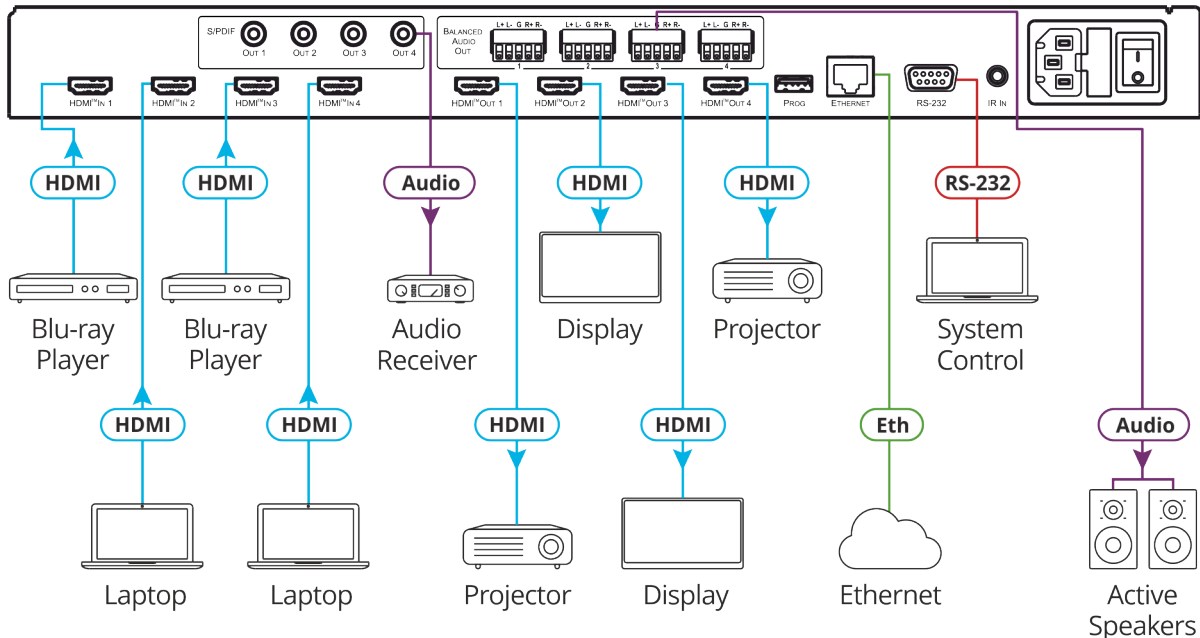
Step 3: Install the VS-44H2A

To rack mount the machine, attach both ear brackets (by removing the three screws from each side of the machine and replacing those screws through the ear brackets) or place the machine on a table.



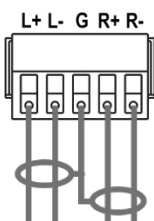
Step 4: Connect the inputs and outputs

Always switch OFF the power on each device before connecting it to your VS-44H2A. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to the VS-44H2A.

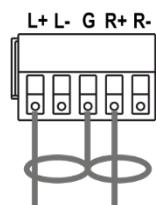


Connect the audio output

To a balanced stereo audio acceptor:



To an unbalanced stereo audio acceptor:



Step 5: Connect the power

Connect the power cord to **VS-44H2A** and plug it into the mains electricity.

Safety Instructions



- Caution:** There are no operator serviceable parts inside the unit.
- Warning:** Use only the power cord that is supplied with the unit.
- Warning:** Do not open the unit. High voltages can cause electrical shock! Servicing by qualified personnel only.
- Warning:** Disconnect the power and unplug the unit from the wall before installing.

See www.KramerAV.com for updated safety information

Step 6: Operate the VS-44H2A

Operate via: **RS-232 and Ethernet communication parameters:**

Operate **Product** via:

- Front panel buttons
- Remotely, by RS-232 serial commands transmitted by a touch screen system, PC, or other serial controller
- Remotely, using the IR remote control transmitter
- Embedded web pages via the Ethernet

RS-232/Ethernet			
Baud Rate:	115,200	Parity:	None
Data Bits:	8	Command Format:	ASCII Protocol 3000
Stop Bits:	1		
Example (Route input 1 to output 1):			#VID 1>1<cr>
Ethernet Parameters			
IP Address:	192.168.1.39	Default TCP Port #:	5000
Subnet Mask:	255.255.0.0	Default UDP Port #:	50000
Default Gateway:	192.168.0.1		
Full Factory Reset			
Front panel:	There is no option for factory reset from front panel.		
Protocol 3000:	"#factory" command.		
Web Pages:	Device Settings page, Soft Factory Reset resets all parameters to factory default except for network parameters.		

Switch an input to an output via front panel buttons

Press an output button followed by an input button to switch the selected input to the selected output.

Store a switching setting

1. Configure the switching as required for the preset.
2. Press **STO**. The STO button flashes.
3. Select an input button (1-4).
4. Press **STO** to store the current setup. The STO button stops flashing.

Recall a switching setting

1. Press **RCL**. The RCL button flashes.
2. Press the relevant input button that stored the preset.
3. Press **RCL** to recall the stored preset. The RCL button stops flashing.

Acquiring the EDID

Acquire EDID from:

- One output to one or more of the inputs.
- Different outputs to different inputs.
- The default EDID (by reading EDID from an output that is not connected to an acceptor).

To acquire an EDID from an output to an input, connect the output to an acceptor and then:

1. Press and hold **EDID** and **STO** for 3 seconds. Both buttons flash.
2. Press an input button (to which the EDID is copied) selected button flashes.
3. Press an output button (from which the EDID is acquired).
4. Press **EDID**. Wait until the device acquires the EDID and **EDID** and **STO** stop flashing.

To acquire an EDID from different outputs to different inputs, connect the outputs to acceptors and then:

1. Press and hold **EDID** and **STO** for 3 seconds. Both buttons flash.
2. Press an input button (to which the EDID is copied) selected button flashes.
3. Press an output button (from which the EDID is acquired).
4. Press the selected input button again. The button stops flashing.
5. repeat steps 2 to 3.
6. Press **EDID**. Wait until the device acquires the EDID and **EDID** and **STO** stop flashing.

Technical Specifications

Inputs	4 HDMI	On female HDMI connectors
Outputs	4 HDMI	On female HDMI connectors
	4 S/PDIF	On female RCA connectors
	4 Balanced Stereo Audio	On 5-pin terminal block connectors
Ports	1 USB	On a Mini female connector
	1 RS-232	On a 9-pin D-sub connector
	1 IR IN	On a 3.5mm mini jack
	1 Ethernet	On an RJ-45 female connector
Video	Max. Resolution	4K@60Hz 4:4:4
	Max. Data Rate	18Gbps (6Gbps per graphic channel)
	Compliance	Supports HDMI 2.0/1.4, HDCP 2.2/1.4,
Control	Front Panel	IN and OUT selection buttons; OFF, ALL, STO, RCL EDID, LOCK buttons
Power	Consumption	60VA
	Source	100-240V AC, 50/60Hz
Environmental Conditions	Operating Temperature	0° to +40°C (32° to 104°F)
	Storage Temperature	-40° to +70°C (-40° to 158°F)
	Humidity	10% to 90%, RH non-condensing
Regulatory Compliance	Safety	CE
	Environmental	RoHs, WEEE
Enclosure	Size	19" 1U, rack mountable
	Cooling	Fan
General	Net Dimensions (W, D, H)	43.6cm x 23.7cm x 4.4cm (17.2" x 9.3" x 1.7")
	Shipping Dimensions (W, D, H)	52.5cm x 33cm x 10.7cm (20.7" x 13" x 4.2")
	Net Weight	2.03kg (4.5lbs) approx.
	Shipping Weight	2.93kg (6.5lbs) approx.
Accessories	Included	Rack ears, power cord
Specifications are subject to change without notice at www.kramerav.com		

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