KRAMER

VS-44H2 Quick Start Guide
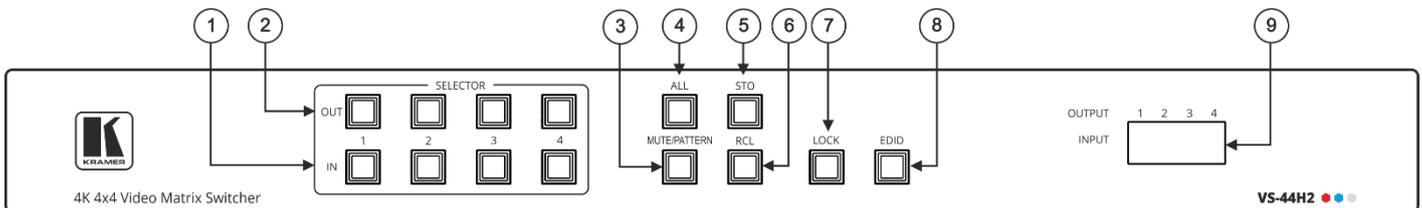
This guide helps you install and use your **VS-44H2** for the first time.

Go to www.kramerav.com/downloads/VS-44H2 to download the latest user manual and check if firmware upgrades are available.

Step 1: Check what's in the box
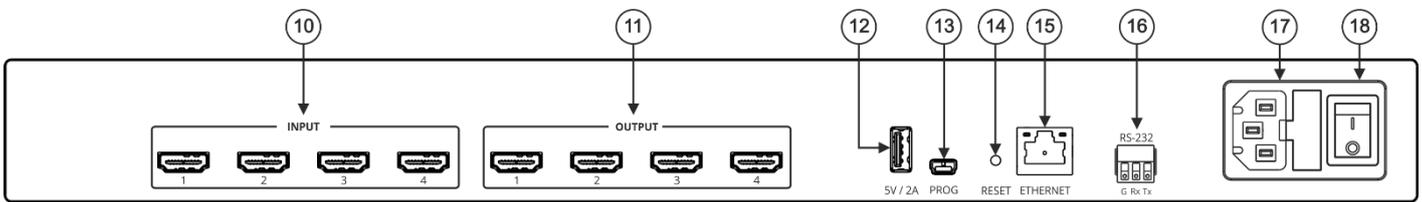
☑ **VS-44H2 4K 4x4 Matrix Switcher** ☑ 4 Rubber feet ☑ 1 Quick start guide

☑ 1 Set of rack ears ☑ 1 Power cord

Step 2: Get to know your VS-44H2

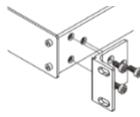| #	Feature	Function
1	IN Select Buttons (1 to 4)	Press to select the input to switch after selecting an output (also used for storing machine setups).
2	OUT Select Buttons (1 to 4)	Press to select an output to switch followed by an input.
3	MUTE/PATTERN Button	Press to view the current pattern status and select the output/s to which a pattern is routed. Press to mute audio and video on a selected output.
4	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.
5	STO Button	Press STO followed by an IN or OUT (1 to 4) button to store the current switching configuration to the location corresponding to that INPUT number.
6	RCL Button	Press RCL followed by the corresponding IN or OUT (1 to 4) button to recall the preset switching configuration saved in that location.
7	LOCK Button	Press and hold to toggle between locking and releasing the front panel buttons.
8	EDID Button	Press to enter the EDID mode.
9	OUTPUT/INPUT 7-segment LED Display	Displays the input currently switched to the output which is marked above each input.

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

P/N: 2900-301297QS   Rev: 1

#	Feature	Function
10	HDMI™ IN Connectors (1 to 4)	Connect to up to 4 HDMI sources.
11	HDMI OUT Connectors (1 to 4)	Connect to up to 4 HDMI acceptors.
12	5V/2A USB Port	Use to charge a device.
13	PROG USB Mini port	Connect to a PC/serial controller to control the device.
14	Reset Button	Press and hold for about 8 seconds to reset IP settings to factory default values.
15	ETHERNET RJ-45 Connector	Connect to a PC via a LAN.
16	RS-232 9-pin D-sub Connector	Connect to a PC/serial controller to control the device.
17	Mains Power Connector Fuse	Plug in the power cord.
18	Power Illuminated Switch	Turn the device on and off.

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.
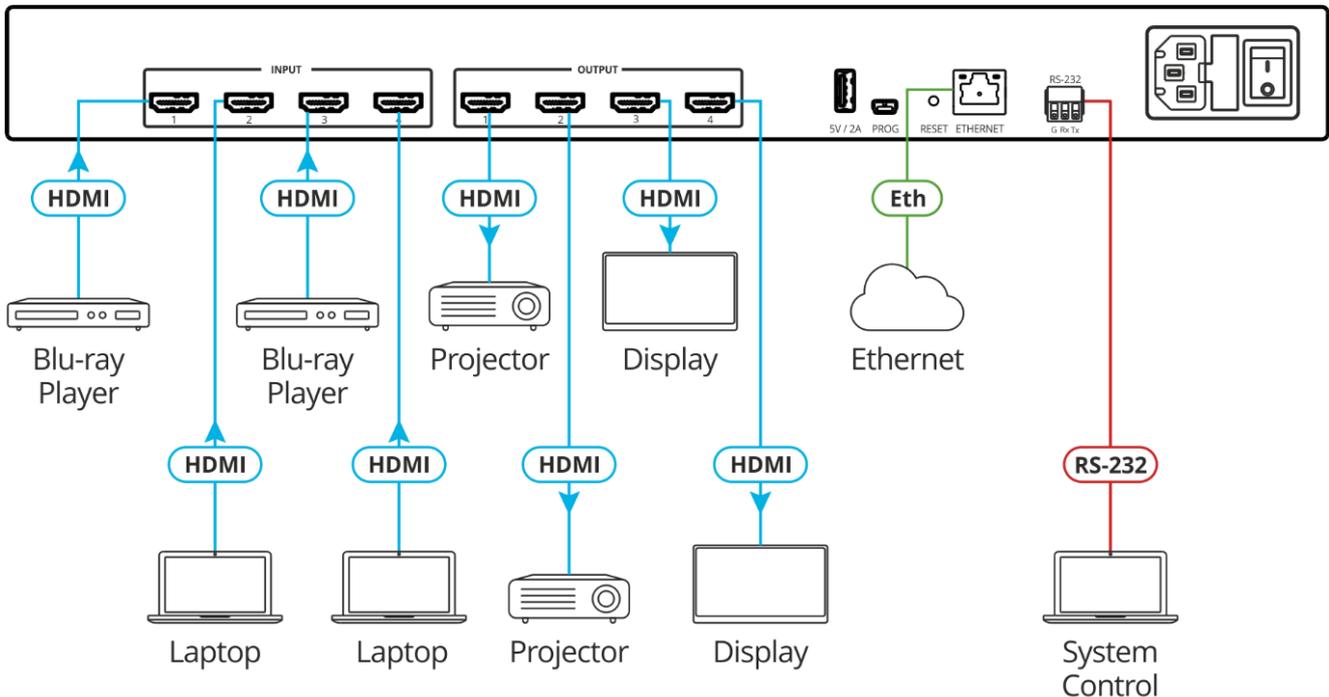
Step 3: Mount VS-44H2

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 the inputs and outputs

Always switch OFF the power on each device before connecting it to your **VS-44H2**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to the **VS-44H2**.

Step 5: Connect power

Connect the power cord to **VS-44H2** 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 the VS-44H2

Operate via RS-232 and Ethernet communication parameters:

RS-232/Ethernet			
Baud Rate:	115,200	Parity:	None
Data Bits:	8	Command Format:	ASCII Protocol 3000
Stop Bits:	1		
Example (route video HDMI IN 4 to video HDMI OUT 1):			`"#X-ROUTE OUT.HDMI.1.VIDEO.1,IN.HDMI.4.VIDEO.1",0x0D`
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	Username/Password:	Admin/Admin
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.		

Operate via Front Panel Buttons

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.

Switch an input simultaneously to all 4 outputs

1. Press **ALL**. All 4 outputs on the 7-segment display flash.
2. Press an input button. The selected input is routed to all the outputs.

Store a switching setting

1. Configure the switching as required for the preset.
2. Press **STO**. The STO button flashes.
3. Press an input or output button (1-4). The input or output button flashes and the STO button stops flashing.

Recall a switching setting

1. Press **RCL**. The RCL button flashes.
2. Press the relevant input or output button that stored the preset.
   Once the stored preset is recalled, 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 one or more inputs:

1. Make sure that the output is connected to an acceptor.

2. Press **EDID** (short press). EDID button lights.
   The 7-segment display shows the current EDID status.

3. Press one or more input buttons (to which the EDID is copied) or press **ALL** (to copy EDID to all the inputs).
   The corresponding 7-segment LEDs flash.

4. Press the output button (from which the EDID is acquired).
   The 7-segment LEDs show the output number from which the EDID is read.

5. Press and hold **EDID** until the device acquires the EDID and device exits EDID mode (EDID and STO button lights turn off).

(i) If the output is not connected to an acceptor, the 7-segment display shows "d". When reading the EDID from an unconnected output, the default EDID is restored.