



Scan for full manual

## VS-62HA Quick Start Guide

This guide helps you install and use your VS-62HA for the first time.

Go to [www.kramerav.com/downloads/VS-62HA](http://www.kramerav.com/downloads/VS-62HA) to download the latest user manual and check if firmware upgrades are available.

### Step 1: Check what's in the box

- ✓ VS-62HA 6x2 HDMI™/Audio Matrix Switcher
- ✓ 1 Set of rack ears
- ✓ 4 Rubber feet
- ✓ 1 Quick start guide
- ✓ 1 Power cord

### Step 2: Get to know your VS-62HA

VS-62HA front panel

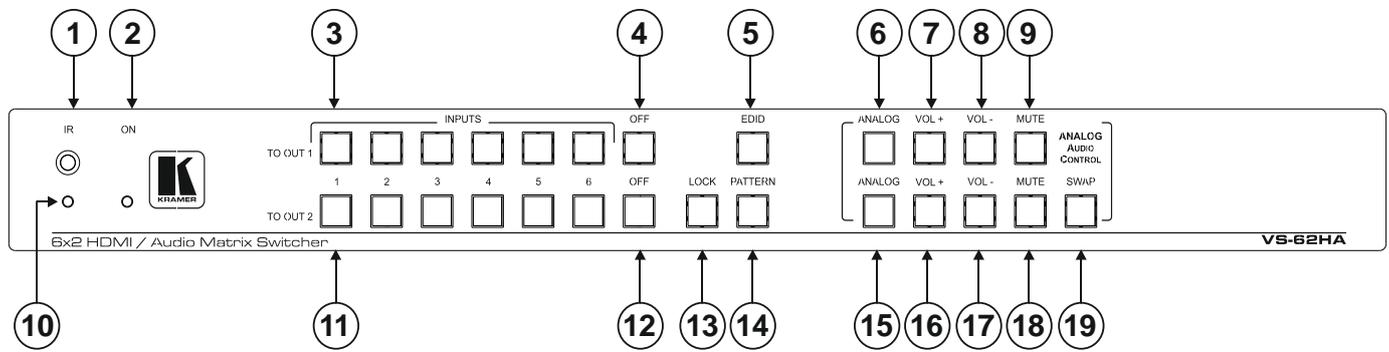


Figure 1: VS-62HA Front Panel

#	Feature	Function	
1	IR Sensor	Signal receiver for the infrared remote-control transmitter	
2	ON LED	Lights green when the device is powered on	
3	INPUT Selector Buttons (1 to 6)	TO OUT 1 Press one of the six inputs to switch it to Output 1	
4	OFF Button		Press to turn off HDMI output 1 video and audio
5	EDID Button		Press to capture the EDID
6	ANALOG Button		Press to select/de-select the analog audio of output 1, colors are as follows: green – analog audio follows HDMI video input red – analog audio breakaway (Web control only) off – outputs HDMI audio of the selected HDMI input
7	VOL+ Button		Press to increase output 1 volume
8	VOL- Button		Press to decrease output 1 volume
9	MUTE Button	Press to toggle muting of output 1 audio	
10	IR LED	Lights yellow when receiving an IR signal	
11	INPUT Selector Buttons (1 to 6)	TO OUT 2 Press one of the six inputs to switch it to Output 2	
12	OFF Button		Press to turn off output 2 video and audio
13	LOCK Button		Press to inactivate/activate all front panel buttons to prevent tampering
14	PATTERN Button		Press to activate the test pattern generator. When the generator is active, press one of the input buttons to select a test pattern
15	ANALOG Button		Press to select the analog audio of output 2
16	VOL+ Button		Press to increase output 2 volume
17	VOL- Button	Press to decrease output 2 volume	
18	MUTE Button	Press to toggle muting of output 2 audio	
19	SWAP Button	Press to swap output 1 and output 2	

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

## VS-62HA back panel

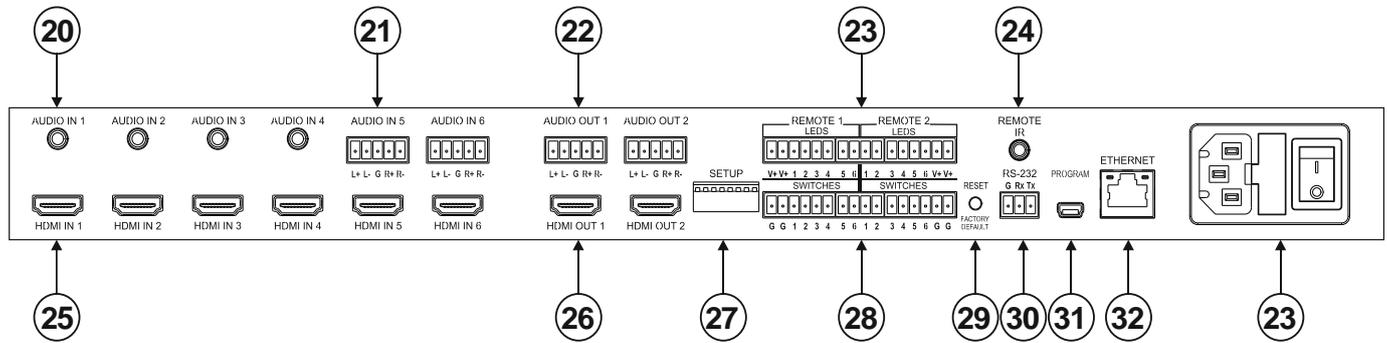
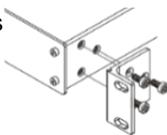


Figure 2: VS-62HA Rear Panel

#	Feature	Function
20	AUDIO IN (1-4) 3.5mm Mini Jacks	Connect to unbalanced stereo audio sources (1-4)
21	AUDIO IN (5-6) 5-pin Terminal Blocks	Connect to balanced stereo audio sources (5-6)
22	AUDIO OUT (1-2) 5-pin Terminal Blocks	Connect to balanced stereo audio acceptors (1-2)
23	REMOTE LEDS (1-2) Terminal Blocks	Connect to LEDS that display the selected input channel (1-6)
24	REMOTE IR 3.5mm Mini Jack	Connect to an external IR receiver for controlling the device via an IR remote controller. Covered by a cap. The 3.5mm mini jack at the end of the internal IR connection cable fits into this opening
25	HDMI IN (1-6) Connectors	Connect to HDMI sources (1-6)
26	HDMI OUT (1-2) Connectors	Connect to HDMI acceptors (1-2)
27	SETUP DIP-Switches	Sets the device configuration
28	REMOTE SWITCHES (1-2)	Connect to up to six remote, contact-closure input selection switches for Output 1 and Output 2
29	RESET/FACTORY DEFAULT Button	Press while power-cycling the device to reset to factory default parameters
30	RS-232 3-pin Terminal Block	Connect to a PC/serial controller
31	PROGRAM USB Connector	Connect to a PC to upgrade the firmware
32	ETHERNET RJ-45 Connector	Connect to a PC via a LAN
33	Power Module (Socket, Fuse, On/Off Switch)	Connects to mains power and turns the unit on and off

## Step 3: Install VS-62HA

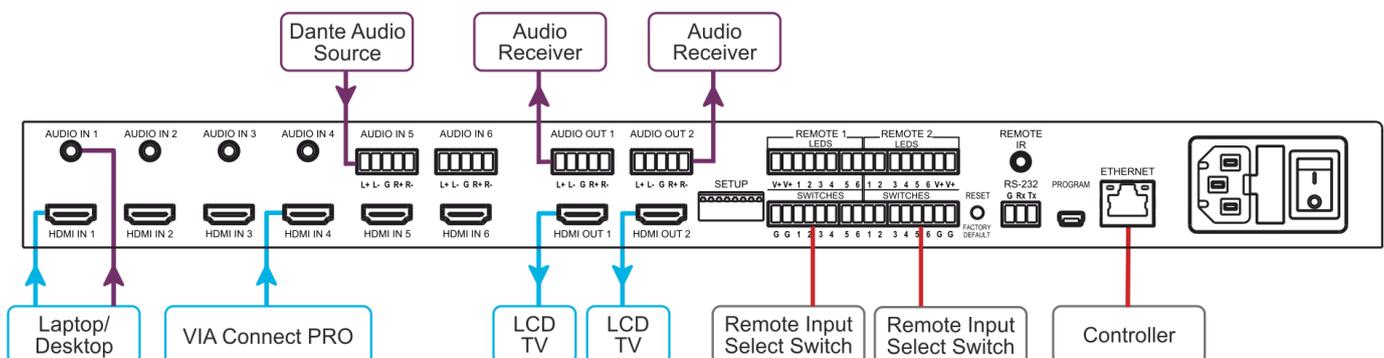
To rack mount the machine, attach both rack ears (by removing the screws from each side of the machine and replacing those screws through the rack ears) or place the machine on a table.



- 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

Always switch OFF the power on each device before connecting it to your VS-62HA.

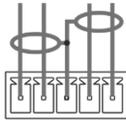


1. Connect up to six HDMI sources, (for example, a laptop, desktop, VIA Connect PRO) to the HDMI In connectors.
2. Connect up to six analog audio sources, (for example, a laptop, desktop, a Dante interface) to the AUDIO IN connectors. AUDIO IN 1 through 4 are unbalanced stereo on 3.5mm mini jacks. AUDIO IN 5 and 6 are balanced stereo audio on 5-pin terminal block connectors.
3. Connect the two HDMI OUT connectors to up to two HDMI acceptors, (for example, LCD displays).

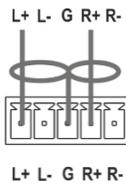
4. Connect the two balanced AUDIO OUT 5-pin terminal block connectors to up to two analog audio acceptors, (for example, audio receivers).
5. If required, connect a PC/controller to the RS-232 port /or the Ethernet port.
6. If required for remote switching, connect up to 6 contact closure switches per channel to their terminal block connectors (Remote 1 and 2 Switches).
7. If required for remote switch indication, connect up to 6 LEDS per channel to their terminal block connectors (Remote 1 and 2 LEDS).
8. Connect a power cord to the device and plug it into the mains electricity.
9. If required, acquire the EDID.

### Connecting the audio output

To a balanced stereo audio acceptor:



To an unbalanced stereo audio acceptor:



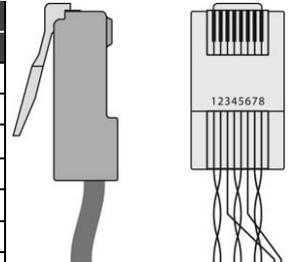
### Wiring the RJ 45 Connectors

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



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



For optimum range and performance use the recommended Kramer cables available at [www.kramerav.com/product/VS-62HA](http://www.kramerav.com/product/VS-62HA). Using third-party cables may cause damage!

## Step 5: Connect the power

Connect the power cord to VS-62HA and plug it into the mains electricity.

Safety Instructions (See [www.kramerav.com](http://www.kramerav.com) for updated safety information)



### Caution:

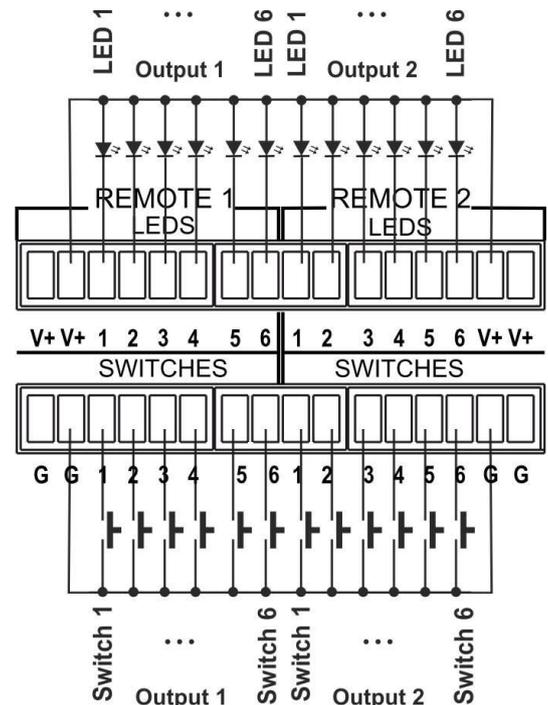
- For products with relay terminals and GPIO ports, please refer to the permitted rating for an external connection, located next to the terminal or in the User Manual.
- There are no operator serviceable parts inside the unit.

### 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: Connecting the Remote Contact-Closure Switches and LEDs

You can connect up to six remote, contact-closure switches and LEDs per output to control the VS-62HA remotely. These switches replicate the Input selection buttons on the front panel of the VS-62HA.



## Step 7: Setting the DIP-Switches

The Setup DIP-switches dictate the behavior of the VS-62HA.

All DIP-switches are off by default.

#	Feature	Description
1	HDCP support on inputs	On—Disable HDCP support on all inputs Off—Enable HDCP support which is defined by P3000 commands
2	Video mode switching Output 1	On—Auto Off—Manual
3	Last connected/Priority mode Output 1	When DIP-switch 2 is set to Auto (ON): On—Enable Last Connected mode Off—Enable Priority mode where the priority of each input is defined by the input number, (1 is the highest priority)
4	Video mode switching Output 2	On—Auto Off—Manual
5	Last connected/Priority mode Output 2	When DIP-switch 4 is set to Auto (ON): On—Enable Last connected mode Off—Enable Priority mode where the priority of each input is defined by the input number, (1 is the highest priority)
6	N/A	N/A
7	N/A	N/A
8	N/A	N/A

## Step 8: Operate the VS-62HA

RS-232 and Ethernet

RS-232 Control / Protocol 3000		
Protocol	3000 (Default)	Legacy
Baud Rate:	115,200	9,600
Data Bits:	8	8
Stop Bits:	1	1
Parity:	None	None
Command Format:	ASCII	ASCII
Example (Set display mode to Picture in Picture):	#Y 0,110,1<CR>	>Y 0 110 1<CR>

Default Ethernet Parameters	
To reset the IP settings to the factory reset values, power cycle the device while holding in the Ethernet Reset button, located on the rear panel of the unit	
IP Address:	192.168.1.39
Subnet mask:	255.255.000.000
Default gateway:	000.000.000.000
TCP Port #:	5000
UDP Port #:	50000
Maximum UDP Ports:	10
Maximum TCP Ports:	4
Web page password:	1234

Full Factory Reset	
Front panel buttons:	Turn power off. Turn power on again while holding the RESET TO XGA/720p front panel button. The LEDs blink. Full factory reset is complete once the LEDs cease to blink and react normally. Note that Full Factory reset includes Ethernet reset as well
OSD:	Factory Reset through the Misc. menu item
Web pages:	Factory reset via the Device Settings embedded Web page
Protocol 3000:	Use "Factory" command