



KRAMER VS-84UT All in One Presentation System User Guide

[Home](#) » [Kramer](#) » KRAMER VS-84UT All in One Presentation System User Guide 

Contents

- [1 KRAMER VS-84UT All in One Presentation System](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Step 1: Check what's in the box](#)
- [5 Step 2: Get to know your VS-84UT](#)
- [6 Step 3: Install the VS-84UT](#)
- [7 Step 4: Connect the inputs and outputs](#)
- [8 Step 5: Connect the power](#)
- [9 Step 6: Operate via the web pages:](#)
- [10 Documents / Resources](#)
 - [10.1 References](#)
- [11 Related Posts](#)



KRAMER VS-84UT All in One Presentation System



Product Information

Specifications:

- **Model:** VS-84UT
- **Type:** HDMI/HDBT 2.0 Matrix Switcher
- **Rack ears:** 1 set
- **Power cord:** 1
- **Rubber feet:** 4

Features:

1. **ON LED:** Lights when receiving power.
2. **STATUS LED:** Multi-color LED lights upon startup, flashes green upon boot, and lights green when ready to use. The LED lights red to indicate internal errors.
3. **Controller Functionality:**
 - **IR IN 3.5mm Mini Jack:** Connect to an external IR receiver (1 and 2).
 - **IR OUT Terminal Block Connectors:** Connect to IR emitter cables (from 1 to 4).
 - **GPI/O Terminal Block Connectors:** Connect to various analog and digital sensors (from 1 to 4).
 - **RELAYS Terminal Block Connectors:** Connect to low-voltage relay-driven devices (from 1 to 8).
 - **RS-232 Terminal Block Connectors:** Connect to RS-232 controlled devices (from 1 to 4).
 - **RS-485 Terminal Block Connector:** Connect to the RS-485 detachable terminal block on a switcher or PC. Pins B (-) and A (+) are for RS-485; Pin G may be connected to the shield (if required).
 - **K-NET Terminal Block Connector:** Use with the K-Config control system. PIN GND is for the Ground connection; PIN B (-) and PIN A (+) are for RS-485, and PIN +12V is for powering other devices.
 - **RS-485 TERM Switch:** Slide down for RS-485 termination with 120; slide up for no RS-485 line termination. The first and the last units on the RS-485 line should be terminated (ON). Other units should not be terminated (OFF).
 - **K-NET TERM Switch:** Use with the K-Config control system. Slide down (in the direction of the arrow) for K-NET termination; slide up for bus to not be terminated. The last physical device on a K-NET bus must

be terminated.

- **PROG Switch:** For factory use only.
- **PROG Mini USB Connector:** For room controller functionalities.

4. Matrix Functionality:

- **HDBT IR 3.5mm Mini Jack IN:** Connect to an external IR sensor/emitter to send/receive IR signals (7 and 8) via HDBT inputs 7 and 8 respectively.
- **HDBT IR 3.5mm Mini Jack OUT:** Connect to an external IR sensor/emitter to send/receive IR signals (3 and 4) via HDBT outputs 3 and 4 respectively.
- **REMOTE MUTE 2-pin Terminal Block Connector:** Remote switch to mute the video and audio signals. Enables easy integration of the audio system with PA systems, usually used for alarms or other public audio messages.
- **GPIO Terminal Block Connectors:** For future use.
- **PROGRAM DIP-switches:** For future use.
- **Power Connector with Switch and Fuse:** AC connector, enabling power supply to the unit. Power switch for turning the unit on or off.
- **AUDIO INPUT (MIC/line) 5-pin Terminal Block Connectors:** Connect to stereo audio balanced sources (from 1 to 4) and/or microphone inputs (from 1 to 8).
- **INPUT 3.5mm Mini Jack:** Connect to an unbalanced audio source (from 5 to 8).
- **LINE OUT 5-pin Terminal:** Connect to a stereo balanced audio acceptor (1 and 2).

Product Usage Instructions

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

Make sure you have the following items:

- VS-84UT 8x4 HDMI/HDBT 2.0 Matrix Switcher
- 1 Set of rack ears
- 1 Power cord
- 4 Rubber feet
- 1 Quick start guide

2. Step 2: Get to know your VS-84UT

Learn about the different features and connectors of your VS-84UT:

1. **ON LED:** This LED lights up when the unit receives power.
2. **STATUS LED:** This multi-color LED indicates the status of the unit. It lights up with different colors during startup and turns green when the unit is ready to use. If there are any internal errors, the LED will turn red.

3. Controller Functionality:

- **IR IN 3.5mm Mini Jack:** This connector is used to connect an external IR receiver to the unit.
- **IR OUT Terminal Block Connectors:** These connectors are used to connect IR emitter cables to the unit.
- **GPI/O Terminal Block Connectors:** These connectors are used to connect various analog and digital sensors.
- **RELAYS Terminal Block Connectors:** These connectors are used to connect low-voltage relay-driven devices.
- **RS-232 Terminal Block Connectors:** These connectors are used to connect RS-232 controlled devices.

- RS-485 Terminal Block Connector: This connector is used to connect the unit to an RS-485 detachable terminal block on a switcher or PC.
- K-NET Terminal Block Connector: This connector is used with the K-Config control system.
- RS-485 TERM Switch: This switch is used for RS-485 line termination. Set it to ON for the first and last units on the RS-485 line, and OFF for other units.
- K-NET TERM Switch: This switch is used for K-NET termination. Slide it down for termination on the last physical device on a K-NET bus.
- PROG Switch: This switch is for factory use only.
- PROG Mini USB Connector: This connector is used for room controller functionalities.

4. Matrix Functionality:

- HDBT IR 3.5mm Mini Jack IN: This connector is used to connect an external IR sensor/emitter for HDBT inputs 7 and 8.
- HDBT IR 3.5mm Mini Jack OUT: This connector is used to connect an external IR sensor/emitter for HDBT outputs 3 and 4.
- REMOTE MUTE 2-pin Terminal Block Connector: This connector is used for remote switch control to mute the video and audio signals.
- GPIO Terminal Block Connectors: These connectors are reserved for future use.
- PROGRAM DIP-switches: These switches are reserved for future use.
- Power Connector with Switch and Fuse: This connector is used to supply power to the unit. The power switch can be used to turn the unit on or off.
- AUDIO INPUT (MIC/line) 5-pin Terminal Block Connectors: These connectors are used to connect stereo audio balanced sources and/or microphone inputs.
- INPUT 3.5mm Mini Jack: This connector is used to connect an unbalanced audio source.
- LINE OUT 5-pin Terminal: This connector is used to connect a stereo balanced audio acceptor.

FAQ

1. Where can I download the full user manual?

You can download the full user manual from the following website: www.kramerav.com/downloads/VS-84UT

2. Are firmware upgrades available for the VS-84UT?

You can check if firmware upgrades are available by downloading the latest user manual from the website mentioned above.

VS-84UT Quick Start Guide

- This guide helps you install and use your VS-84UT for the first time.
- Go to www.kramerav.com/downloads/VS-84UT to download the latest user manual and check if firmware upgrades are available.

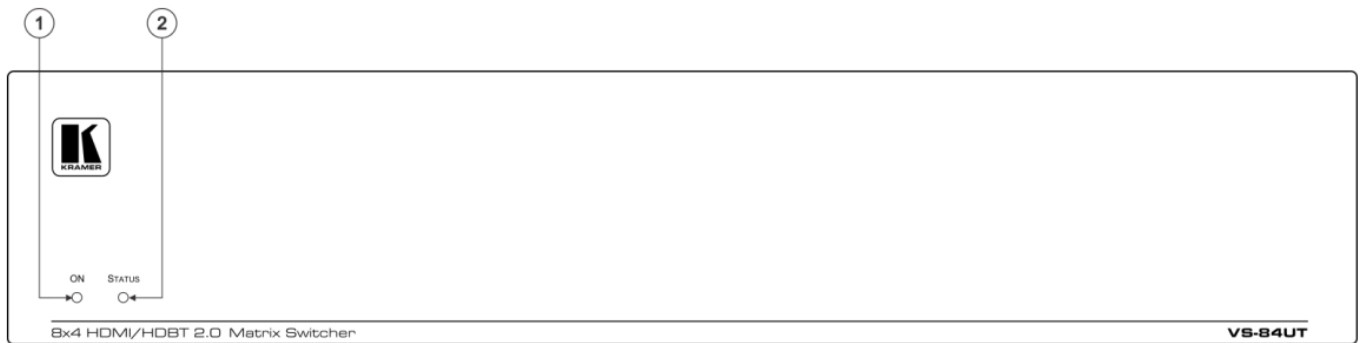


Scan for full manual

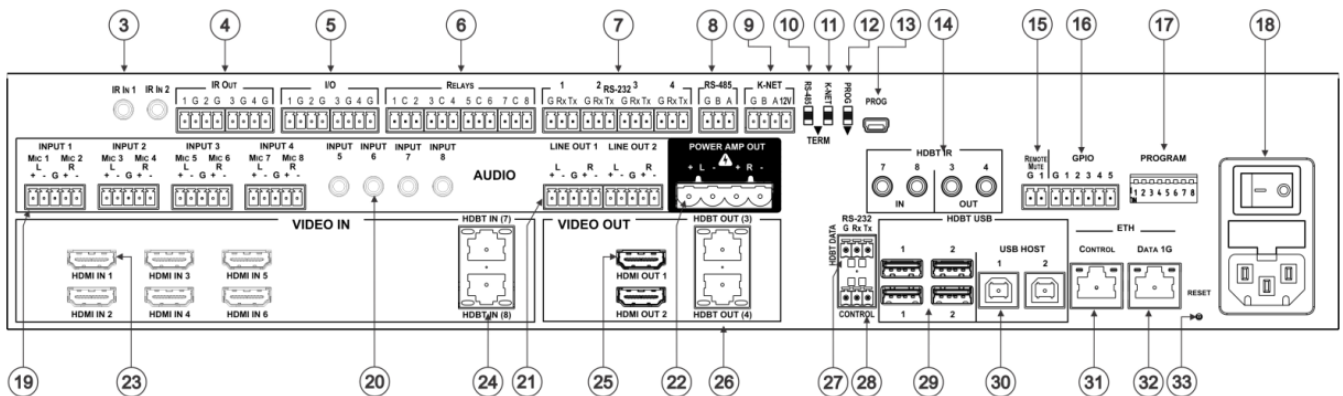
Step 1: Check what's in the box

- ✓ **VS-84UT** 8x4 HDMI/HDBT 2.0 Matrix Switcher
- ✓ 1 Power cord
- ✓ 1 Quick start guide
- ✓ 1 Set of rack ears
- ✓ 4 Rubber feet

Step 2: Get to know your VS-84UT



#	Feature	Function
1	ON LED	Lights when receiving power.
2	STATUS LED	Multi-color LED lights upon startup, flashes green upon boot and lights green when ready to use. The LED lights red to indicate internal errors.



#	Feature	Function
Controller Functionality		
3	IR IN 3.5mm Mini Jack	Connect to an external IR receiver (1 and 2).
4	IR OUT Terminal Block Connectors	Connect to IR emitter cables (from 1 to 4).
5	GPI/O Terminal Block Connectors	Connect to various analog and digital sensors (from 1 to 4).
6	RELAYS Terminal Block Connectors	Connect to low-voltage relay-driven devices (from 1 to 8).
7	RS-232 Terminal Block Connectors	Connect to RS-232 controlled devices (from 1 to 4).
8	RS-485 Terminal Block Connector	<ul style="list-style-type: none"> Connect to the RS-485 detachable terminal block on a switcher or P C. Pins B (-) and A (+) are for RS-485; Pin G may be connected to the shield (if required).

P/N:  2900-300970QS

Rev:  1

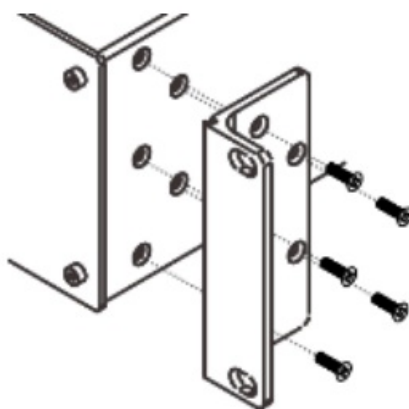
#	Feature	Function
9	K-NET Terminal Block Connector	Use with the K-Config control system. PIN GND is for the Ground connection; PIN B (-) and PIN A (+) are for RS-485, and PIN +12V is for powering other devices.
10	RS-485 TERM Switch	<p>Slide down for RS-485 termination with 120W; slide up for no RS-485 line termination.</p> <p>The first and the last units on the RS-485 line should be terminated (ON). Other units should not be terminated (OFF).</p>
11	K-NET TERM Switch	<p>Use with the K-Config control system.</p> <p>Slide down (in the direction of the arrow) for K-NET termination; slide up for bus to not be terminated. The last physical device on a K-NET bus must be terminated.</p>
12	PROG Switch	For factory use only.
13	PROG Mini USB Connector	For room controller functionalities.
Matrix Functionality		

1 4	HDBT IR 3.5mm Mini Jack	IN	Connect to an external IR sensor/emitter to send/receive I R signals (7 and 8) via HDBT inputs 7 and 8 respectively.
		OUT	Connect to an external IR sensor/emitter to send/receive I R signals (3 and 4) via HDBT outputs 3 and 4, respectively.
1 5	REMOTE MUTE 2-pin Terminal Block Connector		Remote switch to mute the video and audio signals. Enables easy integration of the audio system with PA systems, usually used for alarms or other public audio messages.
1 6	GPIO Terminal Block Connectors		For future use.
1 7	PROGRAM DIP-switches		For future use.
1 8	Power Connector with Switch and Fuse		AC connector, enabling power supply to the unit. Power switch for turning the unit on or off.
1 9	AUDIO	INPUT (MIC/line) 5-pin Terminal Block Connectors	Connect to stereo audio balanced sources (from 1 to 4) and/or microphone inputs (from 1 to 8).
2 0		INPUT 3.5mm Mini Jack	Connect to an unbalanced audio source (from 5 to 8).
2 1		LINE OUT 5-pin Terminal Block Connectors	Connect to a stereo balanced audio acceptor (1 and 2).
2 2		<ul style="list-style-type: none"> POWER AMP OUT 4-pin Terminal Block Connectors 	Connect to a pair of loudspeakers.
2 3	VIDEO	HDMI™ IN Connector	Connect to an HDMI source (from 1 to 6).
2 4		HDBT IN Connectors	Connect to a transmitter (7 and 8) The HDBT Transmitter (for example, the Kramer TP-590Txr) can pass audio and video signals as well as USB, Ethernet, power and serial commands.
2 5		HDMI OUT Connector	Connect to an HDMI acceptor (1 and 2).
2 6		HDBT OUT RJ-45c Connector	Connect to an HDBT receiver (for example, the Kramer TP-590Rxr) to pass audio and video signals as well as USB, Ethernet, power and serial commands (3 and 4).
2 7	RS-232 HDBT DATA Terminal Block Connectors (G, Rx, Tx)		Connect to the PC or the remote controller and pass data between this RS-232 port and the HDBT OUT ports or one of the HDBT IN ports.
2 8	RS-232 CONTROL Port Terminal Block Connectors (G, Rx, Tx)		Connect to the PC or the remote controller to control the VS-84UT via Protocol 3000 commands.
2 9	HDBT USB Device Port Pairs		Connect up to two USB clients to each pair (1 and 2) to pass data via the HDBT inputs or outputs.

30	HDBT USB HOST Ports		Connect to a USB host (1 and 2) to pass data via the HDBT inputs or outputs.
31	ETH RJ-45 Ports	CONTROL	Connect to the PC or other controller through computer networking.
32		DATA 1G	Connect to the PC or other controller via the Ethernet to pass data between HDBT ports and the controller.
33	RESET Recessed Button		Press briefly to restart the system. Press for about 5 seconds to reset settings to factory default values and restart the system.

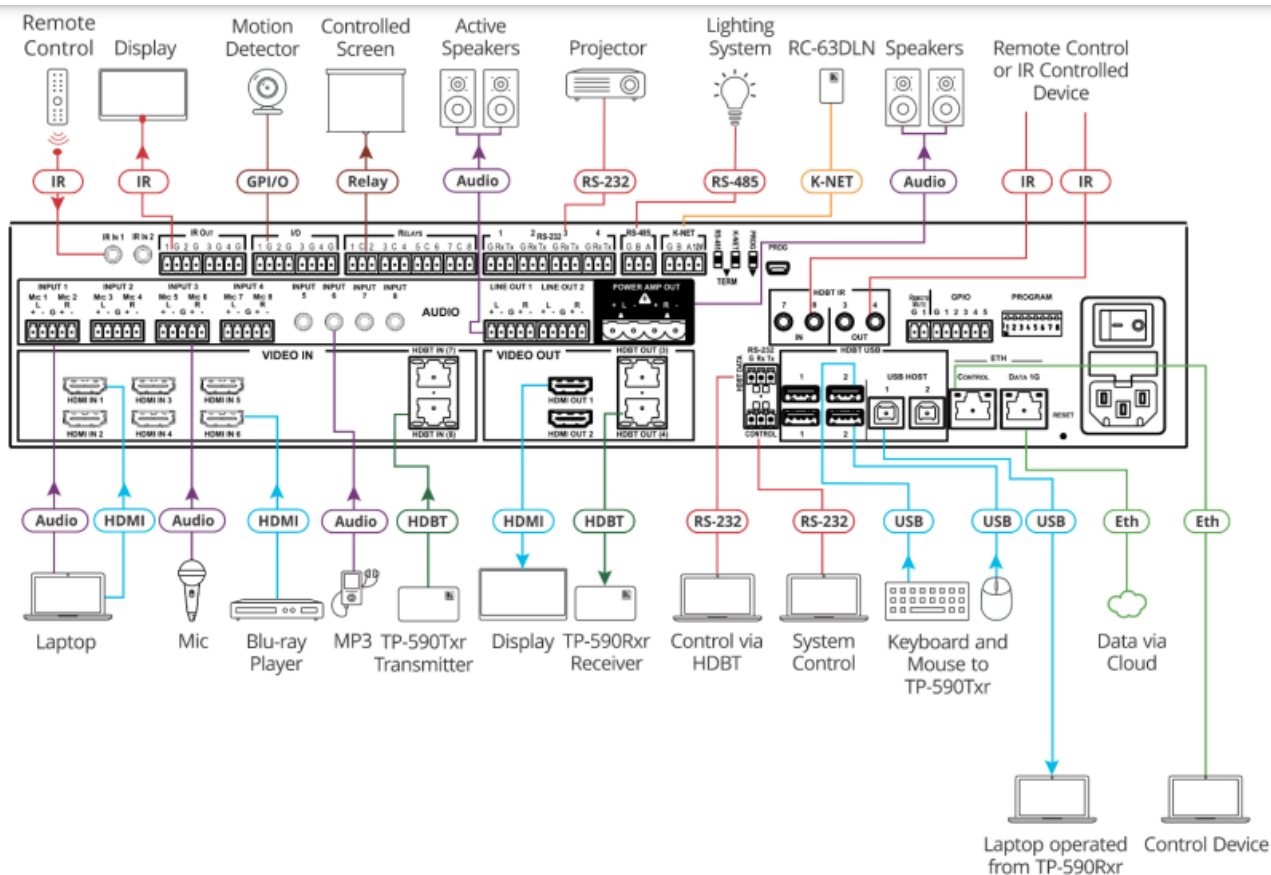
Step 3: Install the VS-84UT

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



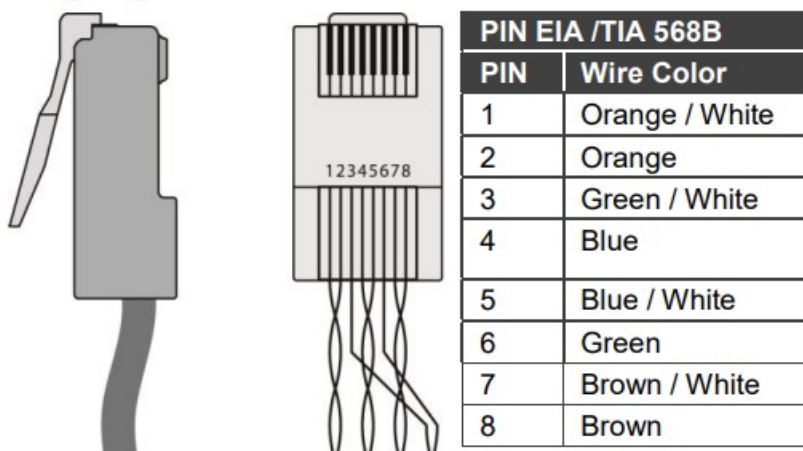
Step 4: Connect the inputs and outputs

Always switch OFF the power on each device before connecting it to your VS-84UT. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to the VS-84UT.



RJ-45 pinout:

For the Ethernet and HDBaseT connectors, see the proper wiring diagram below



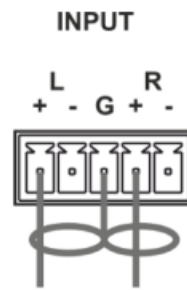
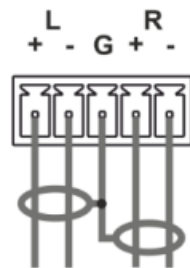
- **Connect the audio input:** To a balanced stereo audio source:
- To an unbalanced stereo audio source:



Connect the audio output:

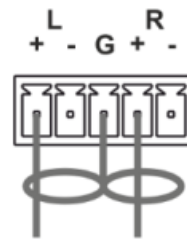
To a balanced stereo audio acceptor

LINE OUT



To an unbalanced stereo audio acceptor

LINE OUT



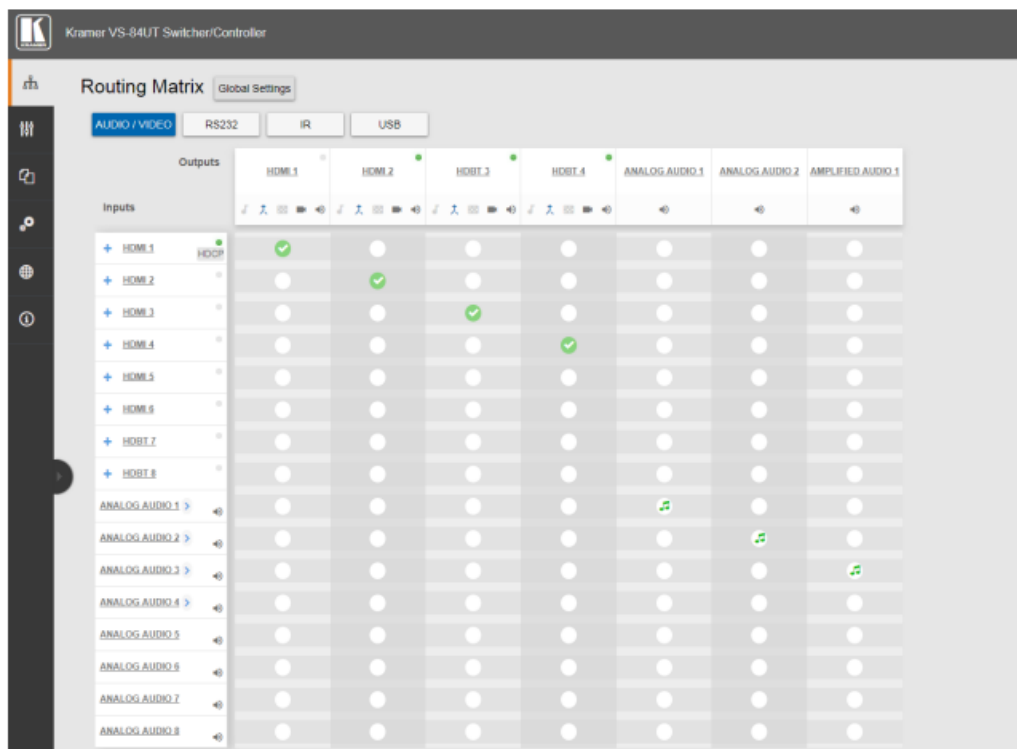
Step 5: Connect the power

Connect AC power to the rear of the VS-84UT, switch on its power and then switch on the power on each device.







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 via the web pages:



Route video and audio signals:

	Optional input to output routing.		Video only is routed.		An active signal is detected (for inputs and outputs).
	Current input to output routing state.		Audio only is routed.		No active signal is detected (for inputs and outputs).

Additional functions:

Inputs:	HDMI and HDBT	Click the input name to change its settings. Click  to route the audio and video inputs separately. Click  to toggle between the HDBT and HDMI input.			
	Analog Audio	Click the input name to change its settings. Click  to change audio level settings. Click  to toggle between one analog input signal and two mic. Input signals.			
Outputs:	HDMI and HDBT	Click the output name to change its settings.			
			Audio-only mode is enabled/disabled.		HDMI is on/off (audio and video).
			Audio-follow-video mode is enabled/disabled.		AUDIO is on/off.
			Pattern is selected/not selected.		
	Analog and Amplified Audio:	Click  to change audio settings.			

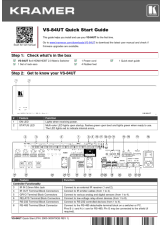
Default communication parameters:

RS-232			
Protocol 3000			
Baud Rate:	115,200	Stop Bits:	1
Data Bits:	8	Parity:	None
Example (Set the volume on analog audio input 5 to 10dB):		#X-AUD-LVL IN.ANALOG_AUDIO.5.AUDIO.1,10	
TCP/IP Parameters			
IP Address:	192.168.1.39	UDP Port #:	50000
Subnet mask:	255.255.000.000	Maximum UDP Connections:	Unlimited
Default gateway:	192.168.0.1	Maximum TCP Connections:	Unlimited
TCP Port #:	5000	Web page authentication (User/Password):	Admin/Admin
Full Factory Reset			
Protocol 3000	Use “#FACTORY” command and use “#RESET” to restore the factory default values.		





WWW.KRAMERAV.COM



Documents / Resources

	<p>KRAMER VS-84UT All in One Presentation System [pdf] User Guide VS-84UT All in One Presentation System, VS-84UT, All in One Presentation System, Presentation System</p>
---	---

References

-  [Manual-Hub.com - Free PDF manuals!](#)
-  [Kramer | Audio Visual Solutions - Kramer](#)
-  [Application Diagrams - Kramer Electronics](#)
-  [Manual-Hub.com - Free PDF manuals!](#)
- [User Manual](#)

Manuals+. Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.