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## VS-48UHD Quick Start Guide

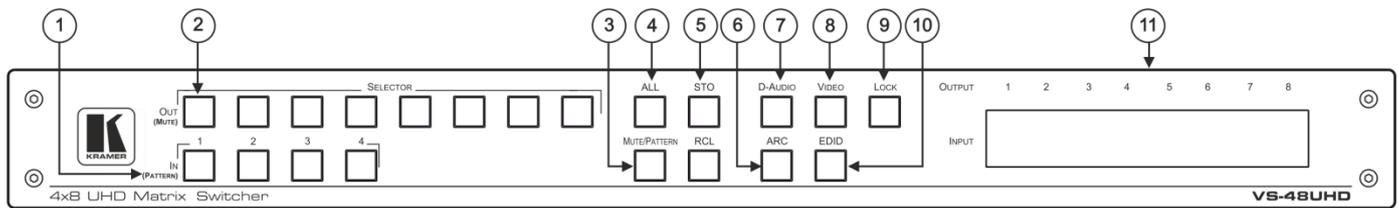
This guide helps you install and use your **VS-48UHD** for the first time.

Go to [www.kramerav.com/downloads/VS-48UHD](http://www.kramerav.com/downloads/VS-48UHD) to download the latest user manual and check if firmware upgrades are available.

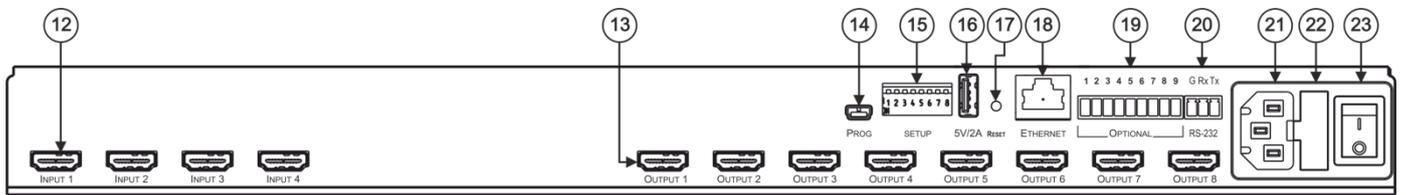
### Step 1: Check what's in the box

- ✓ VS-48UHD 4x8 UHD Matrix Switcher
  - ✓ 1 Power cord
- ✓ 1 Quick start guide
  - ✓ 4 Rubber feet
- ✓ 1 Set of rack ears

### Step 2: Get to know your VS-48UHD



#	Feature	Function
1	IN (PATTERN) SELECTOR Buttons	Press to select the input (1 to 4) to switch after selecting an output (also used for storing machine setups in the STO-RCL modes and for selecting a pattern in the Pattern mode).
2	OUT (MUTE) SELECTOR Buttons	Press to select an output (1 to 8) to which the input is routed. Also used for storing machine presets.
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 or video on a selected output when D-AUDIO and/or VIDEO buttons are pressed (lit).
4	ALL Button	Press to perform an action on all outputs (for example setting Mute mode, Pattern mode and so on). For switching, press ALL and then a specific IN button to route the selected input to all outputs. For example, press ALL and then IN 2 to route input 2 to all the outputs.
5	STO and RCL Buttons	Press STO to store the current switching setting to a preset button. Press RCL to recall the switching setting from a preset button.
6	ARC	For setting ARC mode on the inputs (see Step 6).
7	D-AUDIO Button	Press to enable digital audio routing. When pressed together with VIDEO, the digital audio is routed together with the video signal.
8	VIDEO Button	Press to select video inputs. When pressed together with D-AUDIO, video is switched together with audio.
9	LOCK Button	Press and hold to toggle between locking and releasing the front panel buttons. Press to save the following setups: HDCP (On/Off), ARC, Fast Switch and Switch mode.
10	EDID Button	For setting the EDID on the inputs (see Step 6).
11	OUTPUT/INPUT 7-segment LED Display	Displays the selected inputs switched to the outputs (marked above each input).

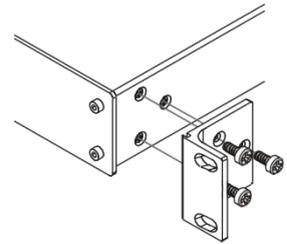


#	Feature	Function
12	INPUT HDMI Connectors	Connect to HDMI sources (from 1 to 4).
13	OUTPUT HDMI Connectors	Connect to HDMI acceptors (from 1 to 8).
14	PROG Mini USB Port	Use for firmware upgrade or communication (connecting to a PC or a serial controller).
15	SETUP DIP-Switches	N/A
16	5V/2A USB Port	Can be used to charge an external device.
17	RESET Button	Press and hold to reset settings to factory default values.
18	ETHERNET RJ-45 Port	Connect to your LAN.
19	OPTIONAL Terminal Block Connectors	N/A
20	RS-232 3-pin Terminal Block Connectors	Connect to a PC or a serial controller.
21	Mains Power Connector	Connect to the mains power.
22	Mains Power Fuse	Fuse for protecting the device.
23	Mains Power Switch	Switch for turning the device on or off.

### Step 3: Install the VS-48UHD

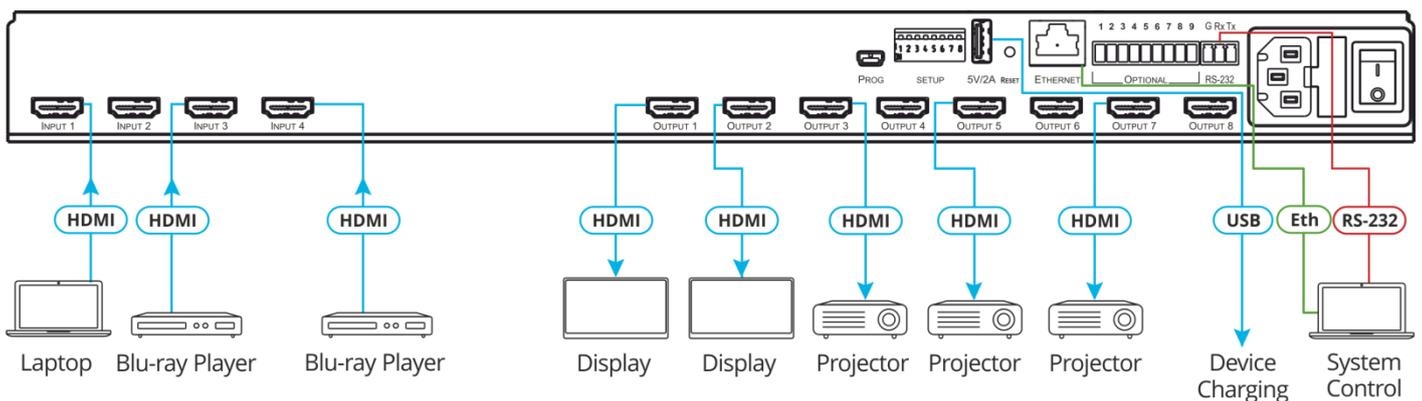
Install **VS-48UHD** using one of the following methods:

- Remove the three screws from each side of the unit, reinsert those screws through the rack ears and mount on a 19" rack.
- Attach the rubber feet and place the unit on a flat surface.



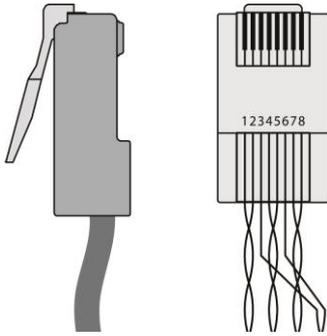
### Step 4: Connect the inputs and outputs

Always switch OFF the power on each device before connecting it to your **VS-48UHD**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to the **VS-48UHD**.



## RJ-45 Pinout:

For the Ethernet connector, see the wiring diagram below:



PIN 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-48UHD](http://www.kramerav.com/product/VS-48UHD).

## Step 5: Connect the power

Connect the power cord to **VS-48UHD** and plug it into the mains electricity.

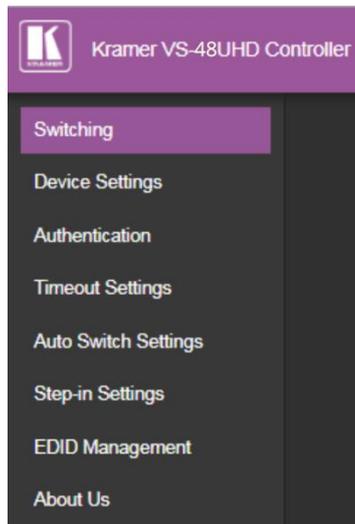
### Safety Instructions



- 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](http://www.KramerAV.com) for updated safety information.

## Step 6: Operate the VS-48UHD via:

### Web pages:



### RS-232 and 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):			#VID1> 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:	Front panel buttons: power off the device, press and hold the LOCK, EDID and STO buttons simultaneously for 3 seconds while powering the device, and then release.		
Protocol 3000:	"#factory" command.		
Web Pages:	In the Device Settings page, click Reset.		

## Front panel buttons:

The 7-segment display shows the status of **VS-48UHD** during normal operation and displays device information.

**Generally, to switch an input to an output, select the switching mode and then:**

- Press an output button and then an input button.
- Press **ALL** to route a selected input to all outputs.

**To set the switching mode:**

- Press **VIDEO** to switch the video signal of a selected input to the selected output.
- Press **D-AUDIO** (HDMI embedded audio signal) to switch the digital audio signal of a selected input to the selected output.
- Press **VIDEO + D-AUDIO** simultaneously to switch the video and digital audio signals of a selected input to the selected output.
- Press **MUTE/PATTERN** to switch the pattern signal of a selected input to the selected output.
- Press **ARC**, an input button, and then an output button. The selected output port sources its ARC to the selected input port ARC.

## 7-segment display example

When in Video mode, the 7-segment display shows the input-output status:



In this example: Input 1 is routed to output 1, input 3 is routed to output 2, input 2 is routed to outputs 3, 6 and 7, a pattern is routed to output 4, output 5 is set to mute, and so on.

## Read and store the EDID via the front panel buttons

**To read the EDID from the output:**

1. Press **EDID+STO**.  
The EDID and STO button LEDs light. The 7-segment display shows the current EDID status.
2. Press one or more input buttons or press **ALL**, the corresponding 7-segment LEDs flash.
3. Press an output button that is connected to a display. The 7-segment LEDs show the output number from which the EDID is read.
4. Press **EDID**. Wait approx. 5 seconds. The EDID of the display is copied to the input port/s and the device exits EDID mode.

**To revert to the default EDID:**

1. Press **EDID+STO**.  
The EDID and STO button LEDs light. The 7-segment display shows the current EDID status.
2. Press one or more input buttons or press **ALL**, the corresponding 7-segment LEDs flash.
3. Press **MUTE/PATTERN**. The 7-segment LED flashes and shows "d".
4. Press **EDID**. Wait approx. 5 seconds. The default EDID is copied to the input port/s and the device exits EDID mode.

## Use the VS-48UHD Web pages

**Switching:** Set input and output parameters (HDCP support, switching speed, and so on), select switching modes, set test patterns, perform switching operations, and so on.

**Device Settings:** View device parameters (model, name, serial number, and so on), set network parameters, perform firmware upgrade, and reset to factory defaults.

**Authentication:** Set password for Admin.

**Timeout Settings:** Set the timeout per output when no signal is detected.

**Auto Switch Settings:** Set switch mode (manual, last connected, or priority), select the ports included in the last connected mode, and set the priority order.

**Step-in Settings:** Control Step-in devices that are connected to the inputs. Select a device (that is connected to a **VS-48UHD** input), set the input signal type, and set the outputs to which the input signal is switched when the Step-in button is pressed (on the Step-in device).

**EDID Management:** Set the default EDID or read the EDID from an output or file to one or more of the inputs.