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VP-427X2 Quick Start Guide

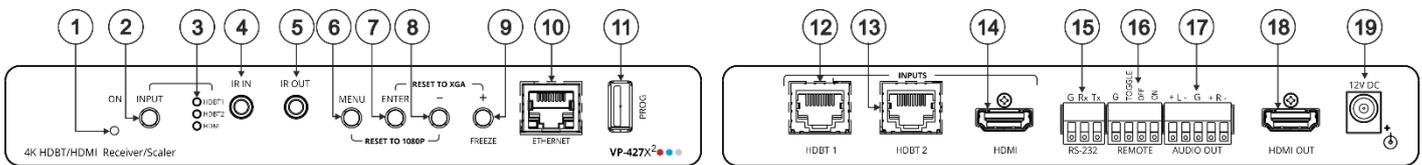
This guide helps you install and use your VP-427X2 for the first time.

Go to www.kramerav.com/downloads/VP-427X2 to download the latest user manual and check if firmware upgrades are available.

Step 1: Check what's in the box

- ✓ VP-427X2 4K HDBT/HDMI Receiver/Scaler
- ✓ 1 Power adapter and cord
- ✓ 2 Bracket sets
- ✓ 4 Rubber feet
- ✓ 1 Quick start guide

Step 2: Get to know your VP-427X2



#	Feature	Function	
1	ON LED	Lights green when device is powered.	
2	INPUT Select Button	Press to select the input (HDBT 1, HDBT 2 or HDMI).	
3	INPUT LEDs	HDBT 1	Lights green when the HDBT 1 input is selected.
		HDBT 2	Lights green when the HDBT 2 input is selected.
		HDMI	Lights green when the HDMI input is selected.
		If the selected source is not connected to an input, its LED flashes.	
4	IR IN 3.5mm Mini Jack	Connect to an IR sensor. Use to control a remote device that is connected to the transmitter side. IR commands are passed via HDBT tunneling only to the selected HDBT input (1 or 2).	
5	IR OUT 3.5mm Mini Jack	Connect to an external IR emitter to control a local device from the transmitter side.	
6	MENU Button	Press to enter/exit the on-screen display (OSD) menu. Press together with the – button to reset the output to 1080p resolution.	
7	ENTER Button	In OSD, press to choose the highlighted menu item. Press together with the FREEZE/+ button to reset the output to XGA resolution (1024x768).	
8	– Button	In OSD, press to move back through menus or decrement parameter values. Press together with the MENU button to reset the output to 1080p resolution.	
9	FREEZE/+ Button	In OSD, press to move forward through menus or increment parameter values. When not in OSD, press to freeze the display.	
10	Ethernet RJ-45 Connector	Connect to a PC via a LAN to setup and monitor the VP-427X2, tunnel data via HDBT, as well as upgrade the firmware. (Configured via web pages).	
11	PROG USB Connector	Connect to a USB stick to perform firmware upgrades.	
12	INPUTS	HDBT 1 RJ-45 Connector	Connect to a transmitter (for example, the Kramer TP-789Txr).
		HDBT 2 RJ-45 Connector	Connect to a transmitter (for example, the Kramer TP-789Txr).
		HDMI Connector	Connect to an HDMI source.
15	RS-232 CONTROL 3-pin Terminal Block Connector	Connect to a serial controller or PC to control VP-427X2 (default configuration), or connect to a device (e.g., a display) to control it via VP-427X2. Can be configured via the device web page.	
16	REMOTE Contact-Closure 4-pin Terminal Block Connector	Connect to contact closure switches, an occupancy sensor and/or toggle switches (contact between the desired pin and GND pin), to turn display on or off. See Step 6: Operate VP-427X2 .	
17	AUDIO 5-pin Terminal Block Connector	Connect to a balanced stereo audio acceptor.	
18	HDMI OUT Connector	Connect to an HDMI acceptor.	
19	12V DC Connector	Connect to the supplied power adapter.	

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

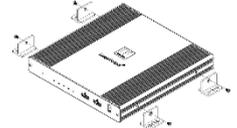
Step 3: Mount VP-427X2

Install **VP-427X2** using one of the following methods:

- Attach the rubber feet and place the unit on a flat surface.
- Fasten 2 brackets (included) on each side of the unit and attach them to a flat surface (see www.kramerav.com/downloads/VP-427X2).
- Mount the unit in a rack using the recommended rack adapter (see www.kramerav.com/product/VP-427X2).



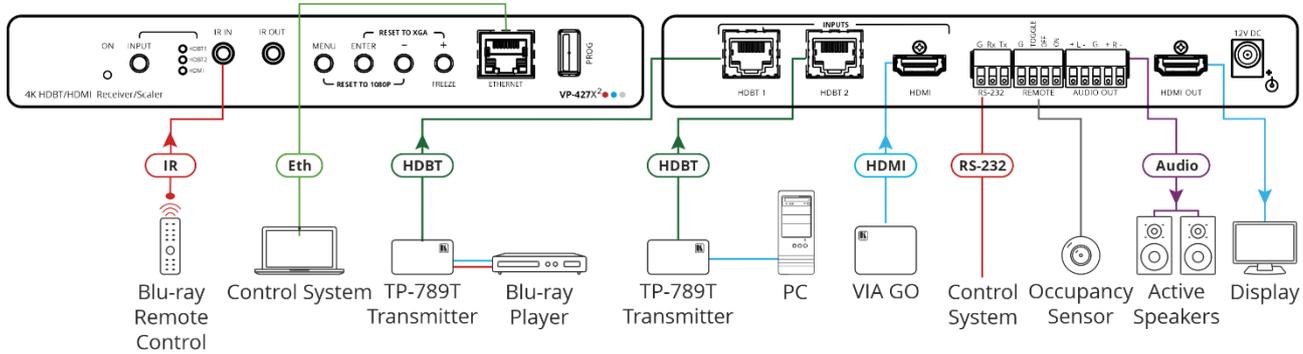
- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- Avoid uneven mechanical loading.
- Appropriate consideration of equipment nameplate ratings should be used for avoiding overloading of the circuits.



- Reliable earthing of rack-mounted equipment should be maintained.
- Maximum mounting height for the device is 2 meters.

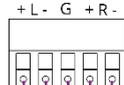
Step 4: Connect inputs and outputs

Always switch OFF the power on each device before connecting it to your **VP-427X2**.

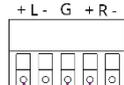


Connecting the audio output

To a balanced stereo audio acceptor:



To an unbalanced stereo audio acceptor:



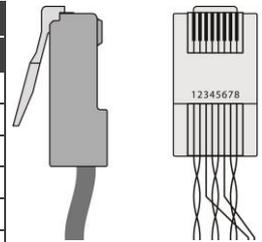
Wiring the RJ-45 Connectors

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



To achieve specified extension distances, use the recommended Kramer cables available at www.kramerav.com/product/VP-427X2. Using third-party cables may cause damage!

Step 5: Connect power

Connect the power adapter to the **VP-427X2** and plug it to the mains electricity.

Safety Instructions (See 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.

Step 6: Operate VP-427X2

Operate **VP-427X2** via:

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

RS-232 Control / Protocol 3000

Baud Rate:	115,200	Parity:	None	Stop Bits:	1
Data Bits:	8	Command Format:	ASCII		
Example: (Route video HDBT INPUT to HDMI OUTPUT): #ROUTE_1,1,1<CR>					
Default Ethernet Parameters					
IP Address:	192.168.1.39	UDP Port #:	50000		
Subnet Mask:	255.255.0.0	TCP Port #:	5000		
Gateway:	192.168.0.1	Default Username/password:	Admin/Admin		

Operating via the remote control switches

Momentarily connect the desired pin to the GND pin to select an input:

Pin Name	Function
TOGGLE	One button toggles between display on and display off (instead of using two separate buttons for on and off). Alternatively, using the VP-427X2 OSD, configure turning the display on or off according to whether a switch is open or closed, for example, when using an occupancy sensor.
OFF	Turn off the display (via CEC).
ON	Turn on the display (via CEC).

