



kramer KDS-17EN-SW2 AVoIP Switcher Encoder User Guide

[Home](#) » [Kramer](#) » kramer KDS-17EN-SW2 AVoIP Switcher Encoder User Guide 



Contents

- [1 kramer KDS-17EN-SW2 AVoIP Switcher Encoder User Guide](#)
- [2 Step 1: Check what's in the box](#)
- [3 Step 2: Get to know your KDS-17EN-SW2](#)
- [4 Step 3: Mount KDS-17EN-SW2](#)
- [5 Step 4: Connect inputs and outputs](#)
- [6 Step 5: Connect power](#)
- [7 Step 6: Operate KDS-17EN-SW2](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)
- [9 Related Posts](#)

kramer KDS-17EN-SW2 AVoIP Switcher Encoder User Guide



KDS-17EN-SW2 Quick Start Guide

This guide helps you install and use your KDS-17EN-SW2 for the first time.

Go to <https://www.kramerav.com/downloads/KDS-17EN-SW2> to download the latest user manual and check if firmware upgrades are available.

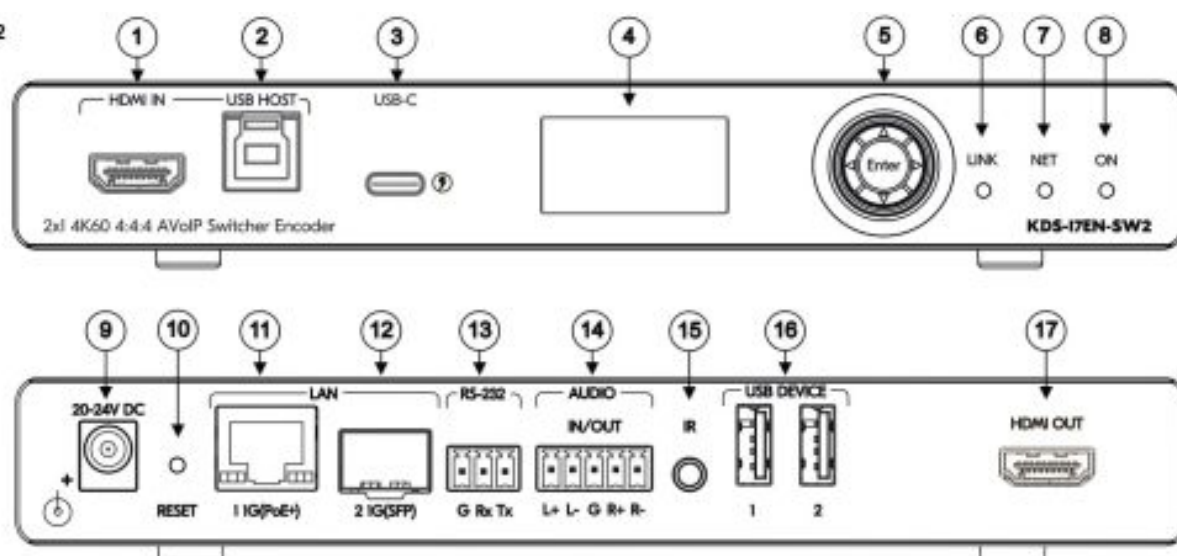


Scan for full manual

Step 1: Check what's in the box

✓ 2x1 4K60 4:4:4 AVoIP Switcher Encoder ✓ 1 Bracket set ✓ 1 Quick start guide

Step 2: Get to know your KDS-17EN-SW2



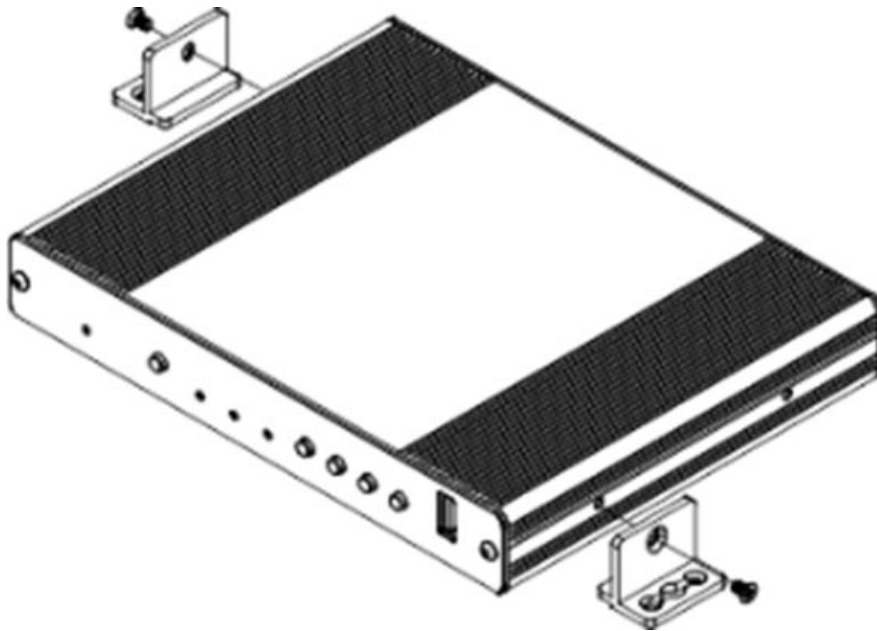
#	Feature	Function
1	HDMI IN Connector	Connect to an HDMI source.
2	HOST USB Type B Port	Connect to a USB host, for example, a PC for KVM/USB support.
3	HOST USB Type C Port	Connect to a USB-C host (for example, a room PC) to communicate with the USB devices (for example, a PTZ camera) that are connected to the USB device ports. This port can charge connected hosts that support USB Power Delivery 3.0, up to 60W, if the device is powered by the optional PS-2006 20V DC power adapter.
4	LCD Display	Use for device configuration such as unique channel/AV stream setting.
5	Menu Navigation Button	<div>◀</div> Press to return to the previous menu. <div>▶</div> Press to go to the next menu. <div>▲</div> Press to move up to the next configuration parameter. <div>▼</div> Press to move down to the next configuration parameter. Enter Press to enter the menu and to accept changes.
6	LINK LED	<div>Lights Green</div> A link is established from KDS-17EN-SW2 to KDS-17DEC and is transmitting A/V. <div>Flashes Green</div> HDMI or USB-C input is detected, but no valid A/V signal is detected. <div>Off</div> No HDMI or USB-C input is detected.

#	Feature	Function
7	NET LED	Off
		No IP address is acquired.
		Lights Green
		A valid IP address has been acquired.
		Flashes Green Very Fast
8	ON LED	When a device identification command is received (Find me), it flashes for 60 seconds.
		Lights Yellow
		No DHCP found, device falls back to IP address in the subnet range 192.168.0.0/16.
		Lights Red
		Security is blocking IP access.
		On fallback address acquiring, flashes continuously in a slow 0.5/10sec cadence.
9	20-24V DC Connector	Connect the optional PS-2006, 20V DC power adapter (purchased separately). When the device is powered by PS-2006, the USB type C port charges connected hosts that support USB Power Delivery 3.0, up to 60W.
10	RESET Recessed Button	Press and hold for 10 seconds to reset the device to factory default values. All LEDs flash.
11	LAN 1: 1G(PoE+) RJ-45 Port	Connect to the LAN. KDS 17EN-SW2 is powered by PoE+ (Power over Ethernet) delivered through the LAN PoE+ port, unless the optional 20-24V DC power adapter is attached. Unicast: Connect for streaming either directly to a decoder or via LAN. Multicast: Connect to multiple decoders.
12	LAN 2: SFP OUT IN Connector	Plug in an SFP (Small Form Factor Pluggable) optical or copper transceiver for streaming over cable.
13	RS-232 3-pin Terminal Block Connector	Connect to an RS-232 device to use as a Gateway and bi-directional signal extension (even when no AV signal is extended).
14	AUDIO IN/OUT 5-pin Terminal Block Connector	Connect to a balanced analog stereo audio source/acceptor.
15	IR 3.5 Mini Jack	Connect to an IR sensor or emitter for bi-directional signal extension (even when no AV signal is extended). Expected voltage for IR receiver - (3.3V).
16	USB Type A Charging Ports (1 and 2)	Connect to USB devices, for example, to a speakerphone and webcam.
17	HDMI OUT Connector	Connect to loop the signal.

Step 3: Mount KDS-17EN-SW2

Install KDS-17EN-SW2 using one of the following methods:

- Attach the rubber feet and place the unit on a flat surface.
- Fasten a bracket (included) on each side of the unit and attach it to a flat surface (see www.kramerav.com/downloads/kds-17en-sw2).
- Mount the unit in a rack using the recommended rack adapter (see www.kramerav.com/product/kds-17en-sw2).

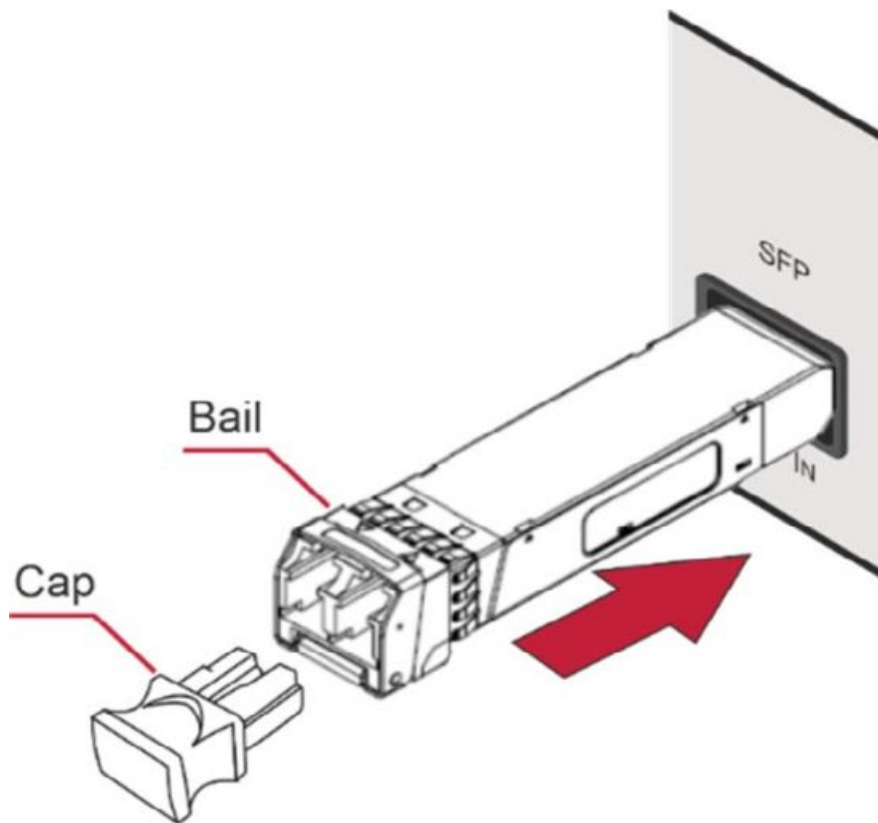


- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- Avoid uneven mechanical loading.
- Appropriate consideration of equipment nameplate ratings should be used for avoiding overloading of the circuits.
- Reliable earthing of rack-mounted equipment should be maintained.
- Maximum mounting height for the device is 2 meters.

To install the SFP MM/SFP SM Kramer recommended transceiver:

Warning:

- Connecting the SFP connector to an LC (APC) fiber connector may cause poor performance and damage the connector!
- Invisible laser radiation present.
- Avoid long-term viewing of laser.
- Avoid the use of magnifying viewing aids or instruments (such as binoculars, telescopes, microscopes and magnifying lenses, but not spectacles or contact lenses).
- Avoid placing optical devices in the emitted beam that could cause the concentration of the laser radiation to be increased.



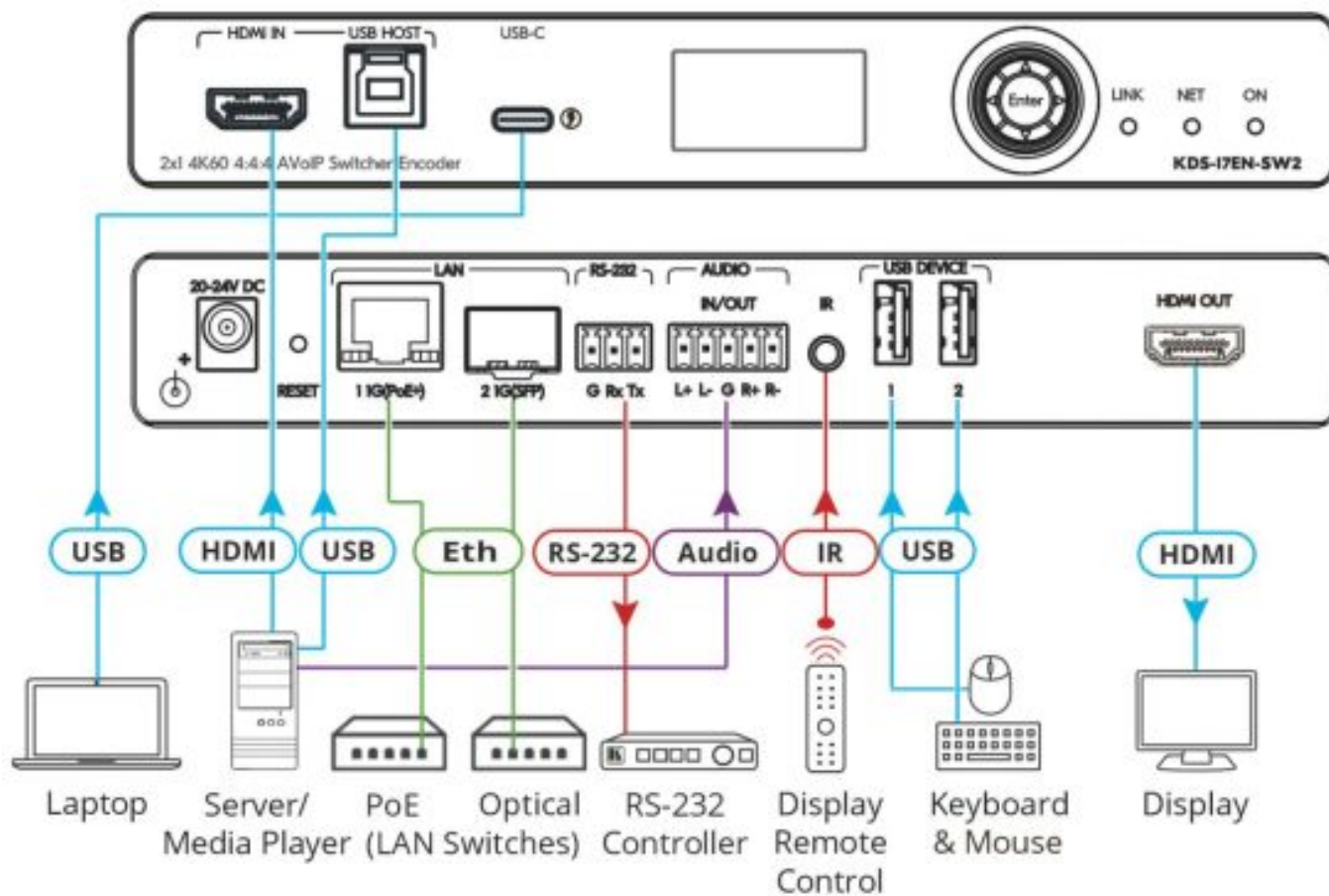
1. Pull the bail out and remove the currently installed transceiver, insert the protective cap and store in a safe place.
2. Make sure the bail of the new transceiver is pushed up, in the closed position.
3. Insert the new transceiver into the relevant optical device SFP slot and push it in until it clicks.
4. Remove the protective cap and store it in a safe place for future use.

To achieve specified extension distances, use the recommended Kramer cables available at www.kramerav.com/product/kds-17en-sw2. Using third-party cables may cause damage!

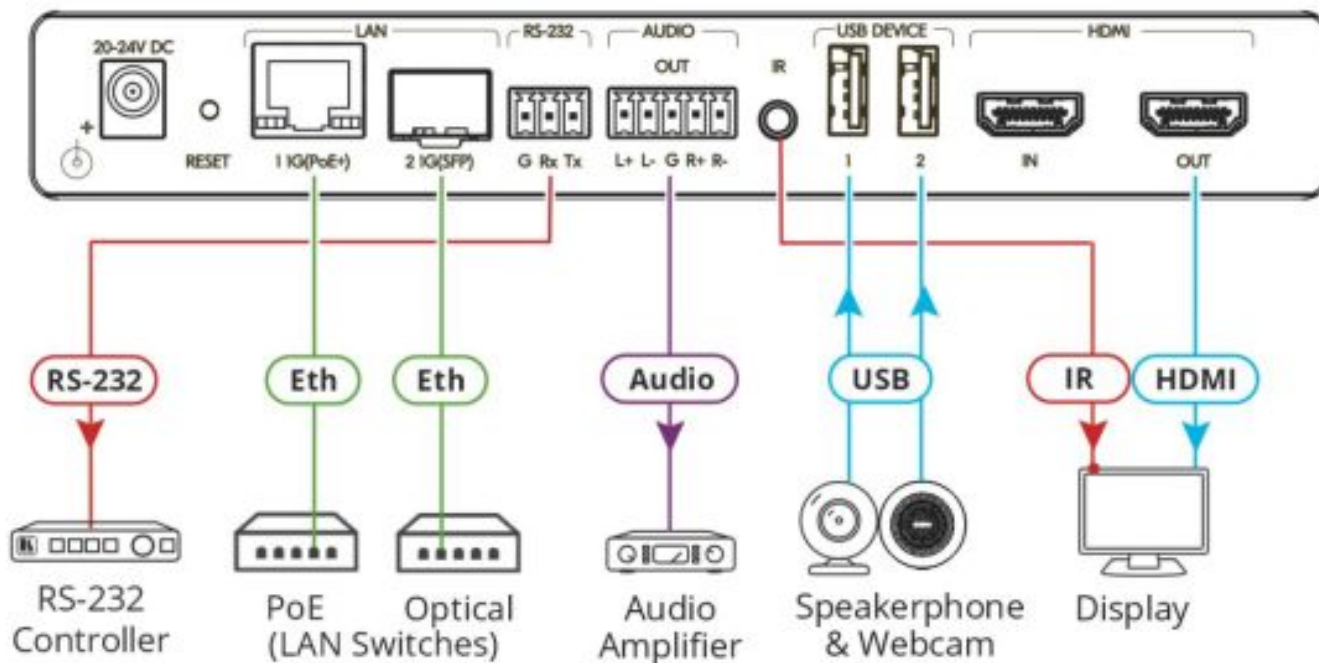
Step 4: Connect inputs and outputs

Always switch OFF the power on each device before connecting it to your KDS-17EN-SW2.

KDS-I7EN-SW2



KDS-I7DEC



KDS-17EN-SW2 can stream 4K video, requiring a gigabit Ethernet switch for high quality performance, since the maximum momentary transfer rate can reach 850Mbps. We recommend using AVoIP Ethernet switches that support IGMP Snooping, IGMP Querier, IGMP Immediate/Fast Leave and Unregistered Multicast Filtering.

Connecting the audio input/output



Step 5: Connect power

By-default, KDS-17EN-SW2 is powered by PoE+ delivered through LAN 1 (see 11 in Step 2). To connect the product to mains electricity, an optional power adapter (PS-2006) can be purchased. Charging from the USB type C port requires the power adapter.

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 KDS-17EN-SW2

Allocating the IP Address

By default, DHCP is enabled, and assigns an IP address to KDS-17EN-SW2. If a DHCP Server is not available, for example, if the device's LAN 1 (see 11 in Step 2) is connected directly to a laptop, the device gets the default IP address of 192.168.1.39.

If this IP address is unavailable, the system searches for a random unique IP in the range of 192.168.X.Y. The allocated IP address can be viewed in the LCD Display (see instructions below).

For detailed instructions on connecting LAN 1 directly to a computer's Ethernet connector, see the chapter "Connecting the Ethernet Port Directly to a PC" in the user manual at https://k.kramerav.com/support/product_downloads/KDS-17EN-SW2.

To view the allocated IP address on the LCD Display

1. Connect LAN 1 (see 11 in step 2) to a LAN switch with PoE+ (power over ethernet). The LEDs light white while the device boots and then the ON and NET LEDs light green or yellow, indicating that the device is on and has a valid IP address.
2. Use the Menu Navigation button to view the assigned IP address on the LCD screen: Click Enter to display the channel number and Enter again, to display the LCD's MAIN MENU.
3. Use the navigation arrows to select DEV STATUS > CONTROL STAT and the device's IP will be displayed.

Setting the Channel Number

Each encoder requires a unique channel number, and connected decoders must be tuned to the same channel. You can set the channel number via the LCD Display or the embedded web pages. To set the channel number for KDS-17EN-SW2 on the LCD Display:

1. Connect LAN 1 (see 11 in step 2) to a LAN switch with PoE+ (power over ethernet). The LEDs light white as the device boots and then the ON and NET LEDs light green or yellow, indicating that the device is on and has a valid IP address.
2. Use the Menu Navigation button to set the channel number with the LCD screen:
Click Enter to display the channel number and Enter again, to display the LCD's MAIN MENU.
3. Use the arrows to select DEV SETTINGS > CH DEFINE.
4. A cursor will flash under the first digit of the channel number. Use the up/down arrow keys to change the digit and the right arrow to move to the next digit. Press Enter to save your selection.
5. On the connected KDS-17DEC, set the same channel number defined on the KDS-17EN-SW2.

To set the channel number with the embedded web pages:

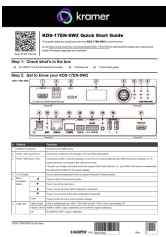
1. Connect LAN 1 (see 11 in step 2) to a LAN switch with PoE+ (power over ethernet). The LEDs light white as the device boots and then the ON and NET LEDs light green or yellow, indicating that the device is on and has a valid IP address.
2. Open the embedded web pages by entering the device's IP address in a web browser connected to the same network (default user/password is admin/admin). To find the allocated IP address, follow the LCD Display instructions above.
3. In the KDS-17EN-SW2 Main page (the Dashboard), edit the Channel ID to define the channel ID number.
4. On the connected KDS-17DEC, set the same channel number defined on the KDS-17EN-SW2.

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



Read More About This Manual & Download PDF:

Documents / Resources

	kramer KDS-17EN-SW2 AVoIP Switcher Encoder [pdf] User Guide KDS-17EN-SW2, KDS-17EN-SW2 AVoIP Switcher Encoder, KDS-17EN-SW2, AVoIP Switcher Encoder, Switcher Encoder, Encoder
---	---

References

- [Kramer | Audio-Visual Solutions and Experiences](#)
- [Kramer | Audio-Visual Solutions and Experiences](#)
- [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.