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KDS-17DEC Quick Start Guide

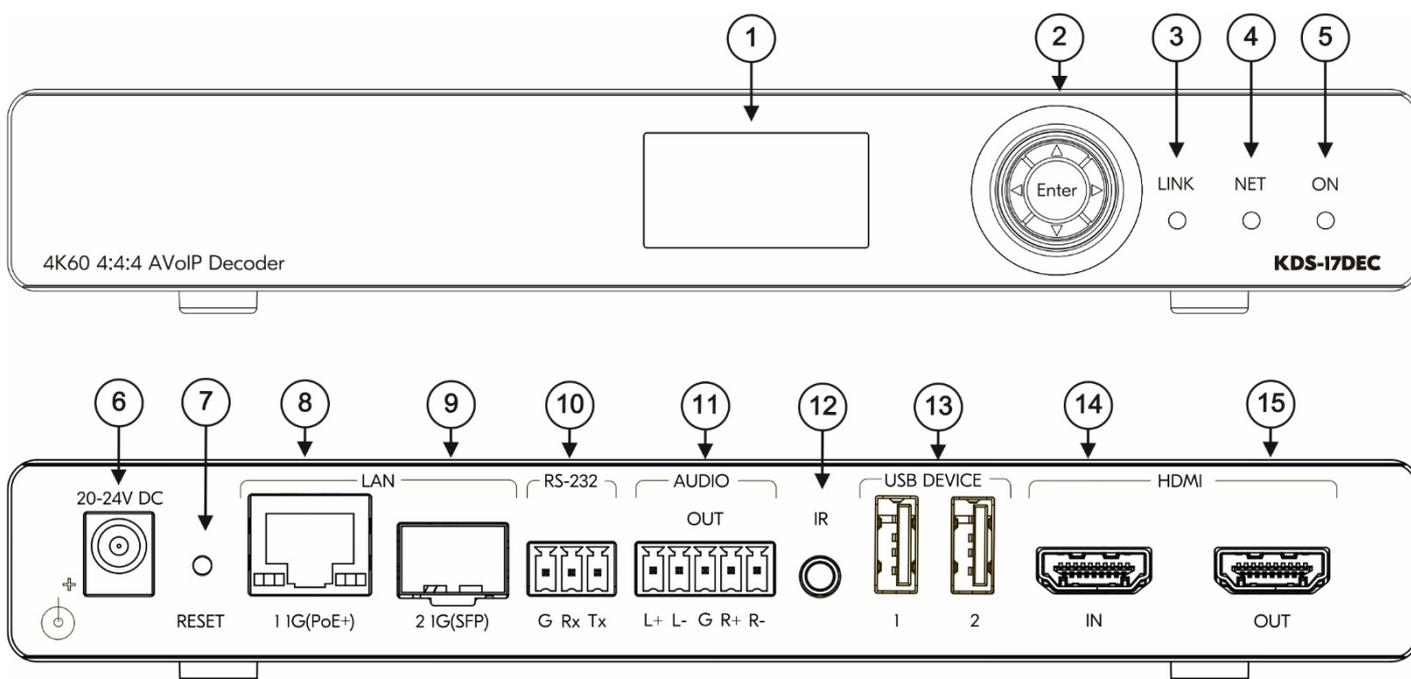
This guide helps you install and use your KDS-17DEC for the first time.

Go to www.kramerav.com/downloads/KDS-17DEC to download the latest user manual and check if firmware upgrades are available.

Step 1: Check what's in the box

- ✔ KDS-17DEC 4K60 4:4:4 AVoIP Decoder
- ✔ 1 Bracket set for each product
- ✔ 1 Quick start guide

Step 2: Get to know your KDS-17DEC



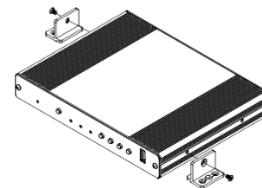
#	Feature	Function
1	LCD Display	Use for device configuration such as unique channel/AV stream setting.
2	Menu Navigation Button	◀ Press to return to the previous menu.
		▶ Press to go to the next menu.
		▲ Press to move up to the next configuration parameter.
		▼ Press to move down to the next configuration parameter.
	Enter	Press to accept changes.
3	LINK LED	Lights Green A link is established from KDS-17DEC to KDS-17EN and A/V signals are being received.
		Flashes Green A link is established, but no valid AV signal is detected.
4	NET LED	Off No IP address is acquired.
		Lights Green A valid IP address has been acquired.
		Flashes Green Very Fast When a device identification command is sent (Find me), flashes for 60 seconds.
		Lights Yellow No DHCP found, device falls back to IP address in subnet range 192.168.0.0/16.
		Lights Red Security is blocking IP access.
5	ON LED	Lights Green Device power is on.
		Flashes Green Fast Firmware is downloaded in the background.
		Flashes Green Very Fast A device identification command is sent (Find me), and flashes for 60 seconds.

#	Feature	Function
	Lights Yellow	Device falls back to the default IP address (192.168.1.40).
	Lights Red	Security is blocking IP access.
	Flashes Red	On fallback address acquiring, flashes continuously in a slow 0.5/10sec cadence.
6	20-24V DC Connector	Connect to the optional 20-24V DC power adapter (purchased separately).
7	RESET Recessed Button	Press and hold for 10 seconds to reset the device to its factory default values. All LEDs flash.
8	LAN 1: 1G(PoE+) RJ-45 Port	Connect to the LAN. KDS-17DEC is powered by PoE+ (power over Ethernet) delivered through the LAN PoE+ port, unless the optional 20-24V DC power adapter is attached. Unicast: Connected for streaming either directly from the encoder or via LAN. Multicast: Encoder is connected to multiple decoders.
9	LAN 2: 1G SFP OUT IN	Plug in an SFP (Small Form Factor Pluggable) optical or copper transceiver for Ethernet traffic over cable.
10	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).
11	AUDIO OUT 5-pin Terminal Block Connector	Connect to a balanced analog stereo audio acceptor.
12	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).
13	USB Type A Charging Ports (1 and 2)	Connect to USB devices, for example, to a speakerphone and webcam.
14	HDMI IN Connector	Connect to an HDMI source.
15	HDMI OUT Connector	Connect to an HDMI acceptor.

Step 3: Mount KDS-17DEC

Install **KDS-17DEC** using one of the following methods:

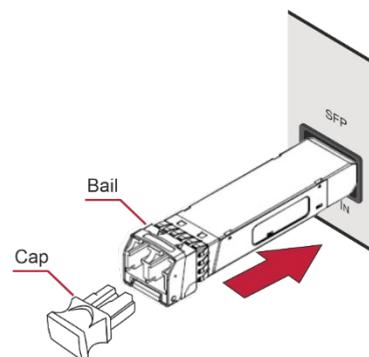
- Attach the rubber feet and place the unit on a flat surface.
- Fasten a bracket (included) on each side of the unit and attach it to a flat surface (see www.kramerav.com/downloads/KDS-17DEC).
- Mount the unit in a rack using the recommended rack adapter (see www.kramerav.com/product/KDS-17DEC).



- 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.

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

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.



Warning: Connecting the SFP connector to an LC(APC) fiber connector may cause poor performance and damage the connector!

Warning: Class 1 Laser Product

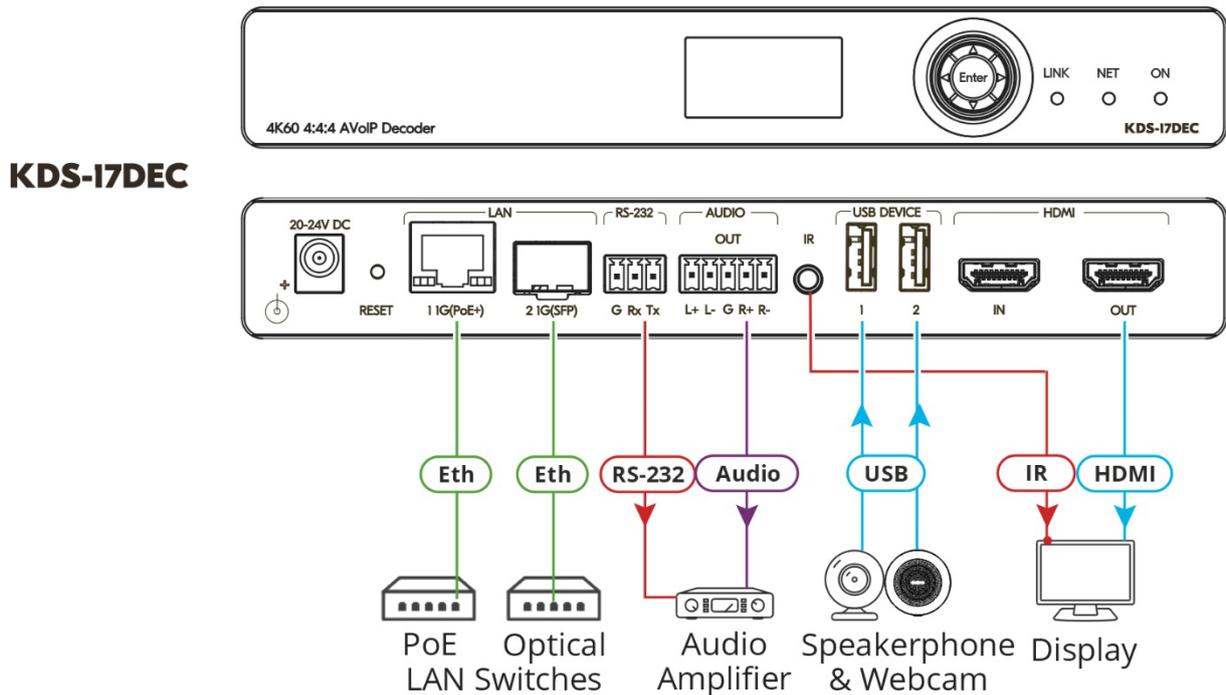
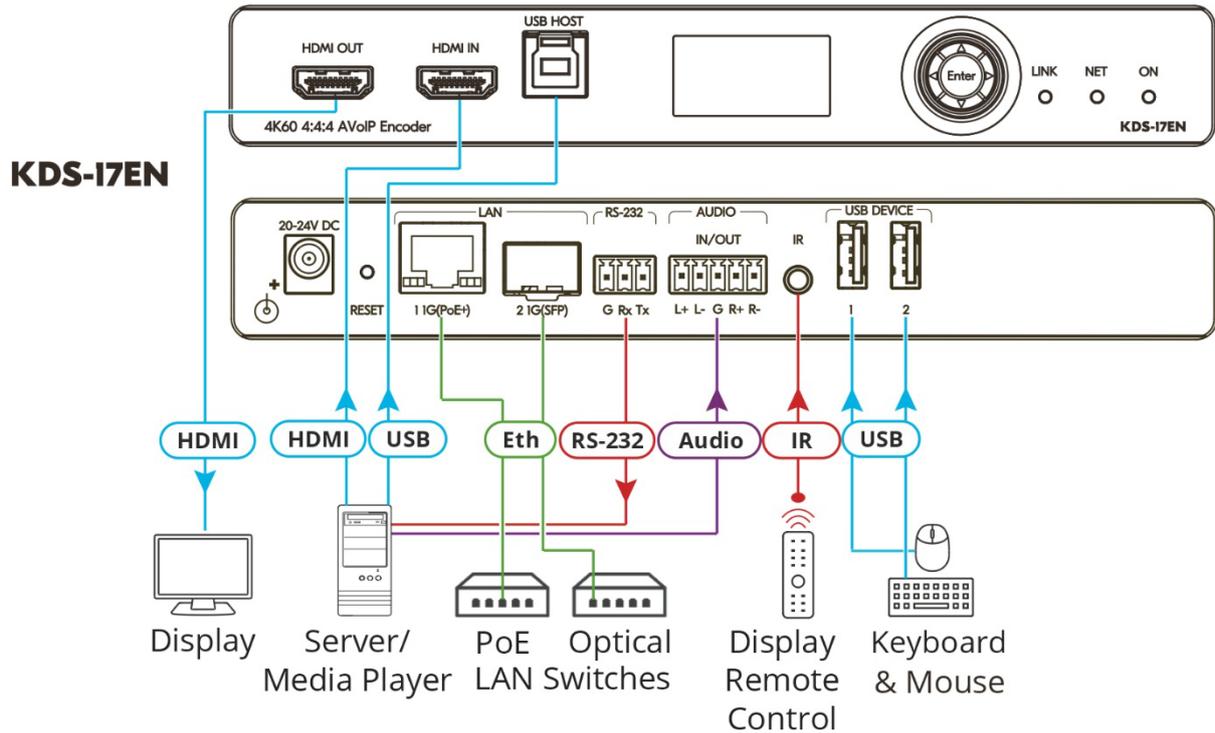
- Invisible laser radiation present.
- Avoid long-term viewing of laser.
- Avoid the use of magnifying viewing aids or instruments (such as binoculars, telescopes, microscopes and magnifying lenses, but not spectacles or contact lenses).
- Avoid placing optical devices in the emitted beam that could cause the concentration of the laser radiation to be increased.



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

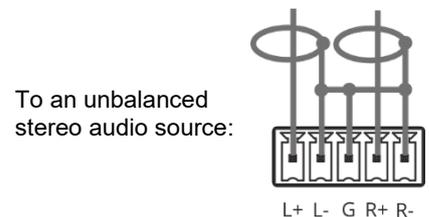
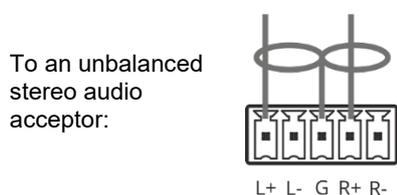
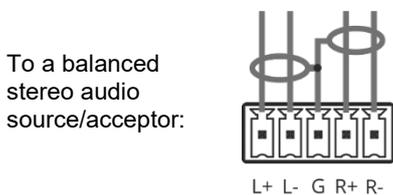
Step 4: Connect inputs and outputs

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



KDS-17DEC 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 and IGMP Immediate / Fast Leave and Unregistered Multicast Filtering.

Connecting the audio input/output



Step 5: Connect power

By-default, **KDS-17DEC** is powered by PoE+ delivered through LAN 1 (see 8 in Step 2). An optional power adapter can be purchased, to connect the product to 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 KDS-17DEC

Allocating the IP Address

By default, DHCP is enabled, and assigns an IP address to **KDS-17DEC**. If a DHCP Server is not available, for example, if the device's LAN 1 (see 8 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-17dec.

To view the allocated IP address on the LCD Display

1. Connect **LAN 1** (see 8 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-17DEC on the LCD Display:

1. Connect LAN 1 (see 8 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.
3. 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.
4. Set the same channel number that was defined on the encoder.

To set the channel number with the embedded web pages:

1. Connect LAN 1 (see 8 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-17DEC** Main page (the **Dashboard**), edit the **Channel ID** to define the channel ID number.
4. Set the same channel ID that was defined on the encoder.

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