DM-NVX-E760

DM NVX® 4K60 4:4:4 HDR Network AV Encoder with DM® Input

The Crestron® DM-NVX-E760 network AV encoder transports ultra high-definition 4K60 4:4:4 video over standard Gigabit Ethernet. The DM-NVX-E760 includes a DM INPUT port that provides interoperability with DM 8G+® output devices and DM Lite® transmitters. The DM INPUT port is also compatible with the HDBaseT® standard.

NOTE: Fan ventilation holes are provided on five sides of the device. If the installation necessitates that another object be positioned flush against the ventilation holes on one side of the device, leave a minimum clearance of 2 inches of space on all other sides containing ventilation holes.

In the Box

1	DM-NVX-E760 Network AV Encoder with DM® Input

Additional Items

|	
1	Power Pack, 24 VDC 2.5 A, 100-240 VAC (2045873)
1	Power Cord, 5 ft 10 in. (1.78 m) (2042043)
1	Connector, 5-pin (2003577)

Install the Device

The DM-NVX-E760 can be mounted onto a flat surface or rack rail.

Mounting onto a Flat Surface

Using four mounting screws (not included), mount the device onto a flat surface such as a wall or the underside of a table.

Wall Mounting

Wall

DM-NVX-E760

(4) Mounting screws (not included)

DM-NVX-E760
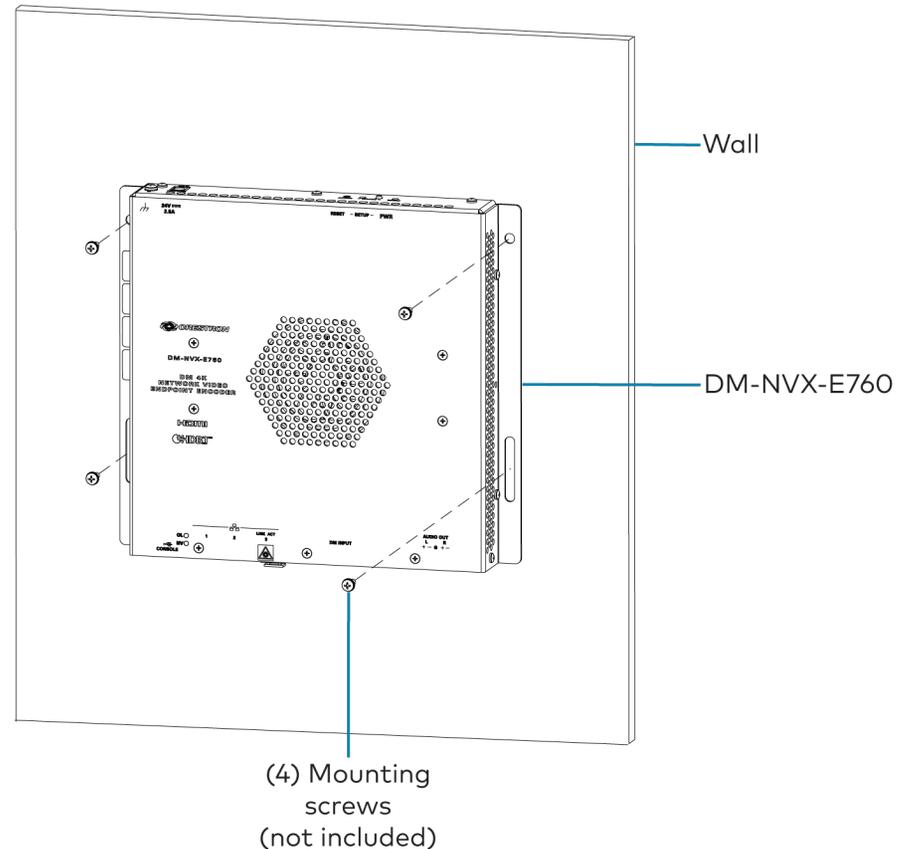
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Mounting onto a Rack Rail

The device can be mounted onto a front or rear rack rail. To mount the device:

1. Position either the left or right mounting flange so that the holes align with the holes in the rack rail.
2. Secure the device to the rack rail using two rack mount screws (not included).

Rack Rail Mounting Example

Mounting flange

DM-NVX-E760

Rack rail

(2) Rack mount screws (not included)
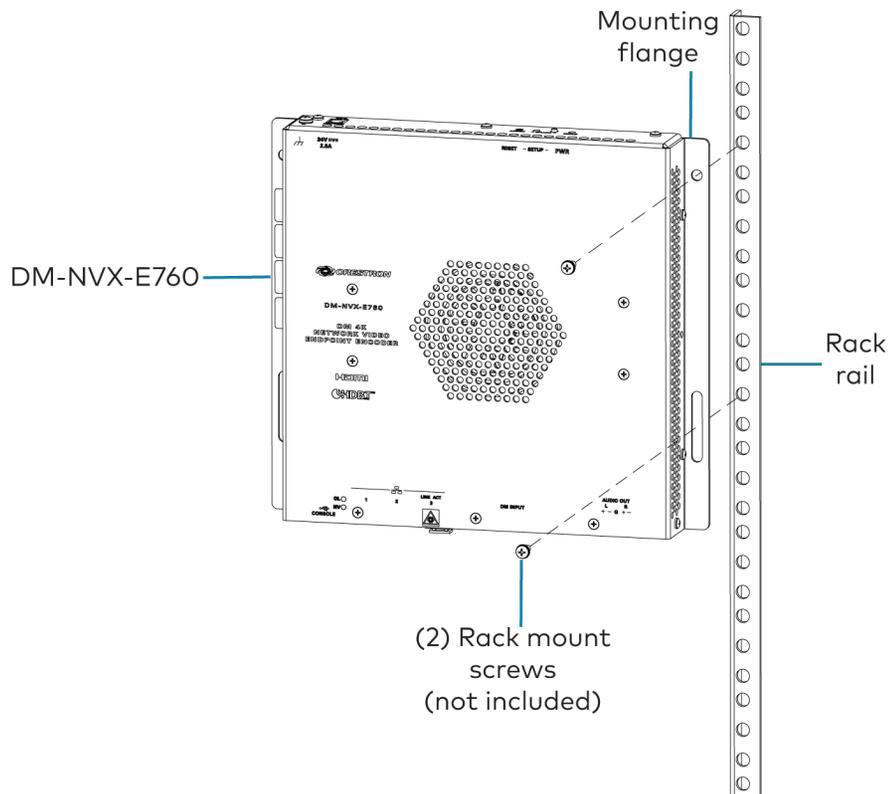
Connect the Device

Connect the device as required for the application.

NOTES:

- The DM-NVX-E760 provides three Ethernet ports:
  - Ports 1 and 2 are 100BASE-TX/1000BASE-T ports.
  - Port 3 is an SFP port, which connects to a fiber-optic network using the appropriate Crestron SFP-1G Series transceiver module (sold separately). For information about installing a Crestron SFP-1G transceiver module, refer to the SFP-1G Series Installation Guide (Doc. 7979) on the Crestron website (www.crestron.com).

- Ethernet port 1 is a PoE++ and UPOE powered device (PD) port. In order for the port to receive PoE++ or UPOE, it must be connected to power sourcing equipment such as the Crestron DM-PSU-ULTRA-MIDSPAN (sold separately), a POE++ or UPOE compliant Ethernet switch, or third-party IEEE 802.3bt compliant PSE. Wiring that connects to a PoE++ or UPOE PSE port is designed for intrabuilding use only.

  PoE++, UPOE, or the included PW-2420RU power pack can be used to power the DM NVX device.

- Ethernet port 1, 2, or 3 can be used to connect to a 1000BASE-T Ethernet switch in order to stream network video. Only one port at a time can be used to stream network video.

  When not used to stream network video, an Ethernet port can be used to connect to a local network device or to another DM NVX device.

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DM NVX® 4K60 4:4:4 HDR Network AV Encoder with DM® Input
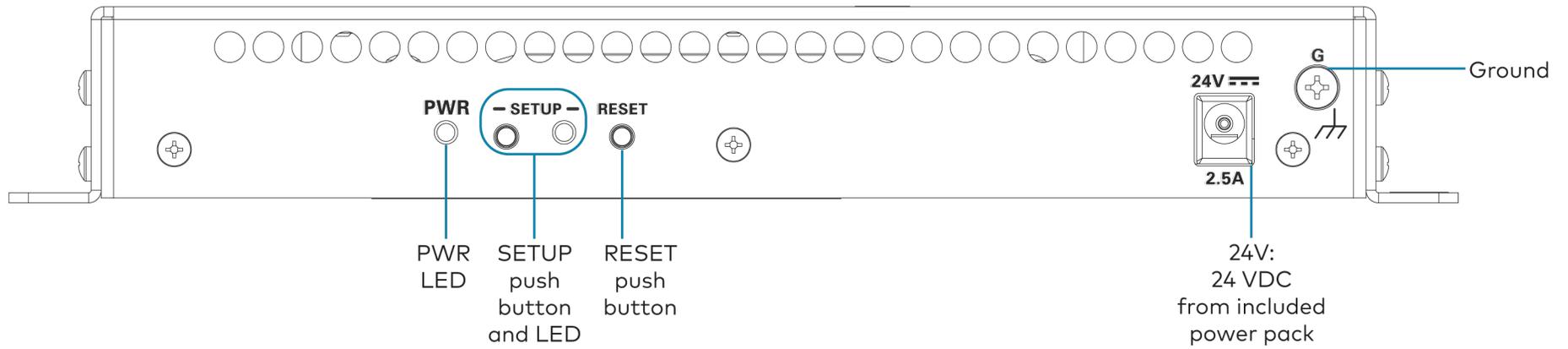
Front Panel Connections
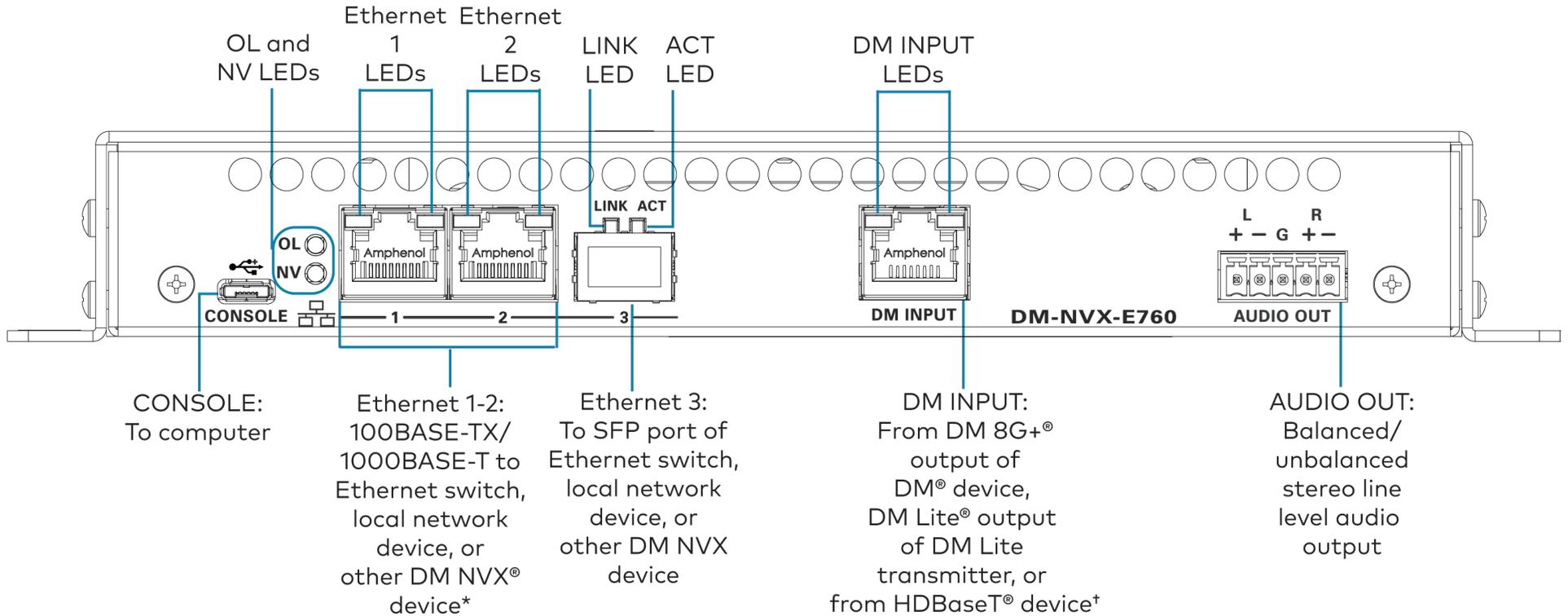
*Ethernet port 1 is a PoE++ and UPOE powered device (PD) port.

†The device type connected to the DM INPUT port must also be selected using the web interface or programmed using a control system. Available selections are **DM Lite Transmitter**, **DM Transmitter,** and **DM Output Card/DMPS**.

The DM INPUT port is a PoDM+ power sourcing equipment (PSE) port that is also compatible with HDBaseT PoE+. The DM INPUT port can also power a DM Lite transmitter.

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Rear Panel Connections

Ground

PWR LED

SETUP push button and LED

RESET push button

24V: 24 VDC from included power pack

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AUDIO OUT Connector Pin Assignments

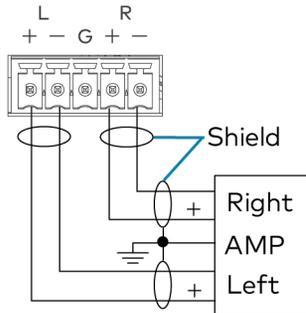The AUDIO OUT connector uses a 5-pin terminal block for balanced or unbalanced analog audio output.
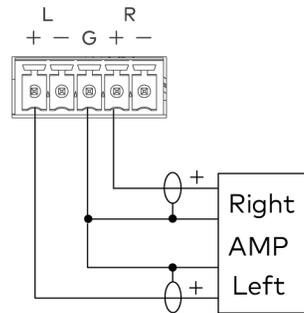
AUDIO OUT Connector

Refer to the following table and diagram for analog audio output pin assignments and connection information.

Signal Name	Balanced Audio Output	Unbalanced Audio Output
+	L+	L+ Out
–	L–	Open
G	Shield/ground	Common ground
+	R+	R+ Out
–	R–	Open

Balanced Output   **Unbalanced Output**

Upgrade the Firmware

Before using the device, upgrade the firmware. The latest firmware can be downloaded from the DM-NVX-E760 product page on the Crestron website (www.crestron.com).

Configure the Device

Configure the device using the web interface. To access the web interface, open a web browser and then go to the IP address of the device.

NOTE: By default, the IP address of a DM NVX device is assigned by a DHCP server on the network. If a DHCP server does not exist on the network, the IP address defaults to a link-local address in the 169.254.*xxx.xxx* range (refer to RFC 3927 for detailed information about link-local addressing). To display the IP address on the connected display, press the SETUP button on the rear panel of the device.

To log in to the web interface, enter the user name and password. The default user name and password are both *admin*.

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Quick Start

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☁ Connect to the Cloud

The Crestron XiO Cloud® service allows supported Crestron devices across an enterprise to be managed and configured from one central and secure location in the cloud. Supported devices are preconfigured to connect to the service. Use of the service requires a registered XiO Cloud account.

To connect the device to the XiO Cloud service:

1. Record the MAC address and the serial number that are labeled on the shipping box or on a mounting flange and the bottom of the device. The MAC address and the serial number are required in order to add the device to the XiO Cloud environment.

2. Do either of the following:
   - If you have an XiO Cloud account, go to https://portal.crestron.io to access the XiO Cloud service.
   - If you do not have an XiO Cloud account, go to www.crestron.com/xiocloud to register for an account.

For detailed information about using the XiO Cloud service, refer to the XiO Cloud Provisioning and Management Service User Guide (Doc. 8214).

🔆 Observe the LED Indicators

Refer to the following table for information about the LED indicators on the device.

LED Indicator	Color	Meaning
PWR	Amber	Power is being applied to the device. The device is booting.
	Green	Power is being applied to the device. The device is operational.
SETUP	Red	The SETUP button is pressed.
OL	Green	The device is online with a control system via Ethernet.
NV	Green	The device is encoding (transmitting) network video.
Ethernet 1-2 (2 LEDs per port)	Green	An Ethernet link is established.
	Amber	Data activity is occurring on the Ethernet link.
Ethernet 3 LINK	Green	An Ethernet link is established.
Ethernet 3 ACT	Flashing green	Data activity is occurring on the Ethernet link.
DM INPUT (2 LEDs)	Green	A DM, HDBaseT, or DM Lite link is established.
	Amber	HDCP video is detected at the input.
	Flashing amber	Non-HDCP video is detected at the input.

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Visit the Product Page

Scan the QR code to visit the product page.

www.crestron.com/model/6511004

Additional Information

Original Instructions
The U.S. English version of this document is the original instructions.
All other languages are a translation of the original instructions.

Regulatory Model: M201910003

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