

DM-NVX-E30/DM-NVX-D30 DM NVX™ Network AV Encoder/Decoder

The Crestron® DM-NVX-E30 is a network AV encoder that transmits ultra high-definition 4K60 4:4:4 HDR video over standard Gigabit Ethernet to a compatible DM NVX™ decoder. The DM-NVX-D30 is a network AV decoder that receives ultra high-definition 4K60 4:4:4 HDR video from a compatible DM NVX encoder. The DM-NVX-E30 provides a single HDMI® input. The DM-NVX-D30 provides a single HDMI output. Both devices feature secure web-based control and management, an analog audio output, and copper LAN connectivity.

Check the Box

Item	Qty
DM-NVX-E30 or DM-NVX-D30	1
Connector, 4-Pin (P/N 2003576)	1
Connector, 5-Pin (P/N 2003577)	2

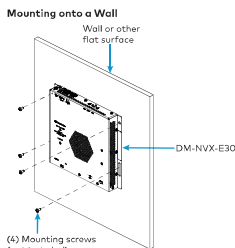
Install the Device

The DM-NVX-E30 and DM-NVX-D30 can be mounted onto a flat surface or rack rail.

Flat Surface Mounting

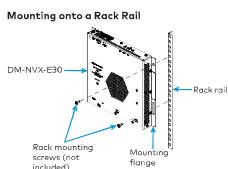
Using four mounting screws (not included), mount the device onto a flat surface such as a wall or the underside of a table.

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.



Rack Rail Mounting

Using two rack mounting screws (not included), mount the left or right mounting flange of the device onto the front or rear rail of a rack.



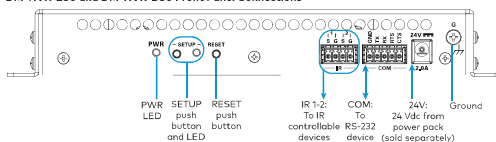
Connect the Device

Connect the device as required for the application.

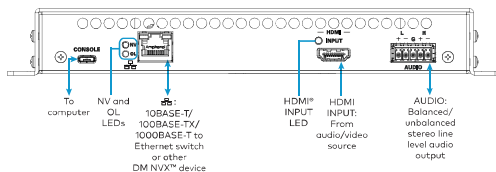
NOTES:

- The LAN port (M) must connect to a 1000BASE-T switch in order to stream network video.
- The DM-NVX-E30 and DM-NVX-D30 can be powered via the LAN port, which is a PoE+ powered device (PD) port. In order for the device to receive PoE+, the LAN port must connect to a PoE+ part of a switch. Alternatively, the DM-NVX-E30 and DM-NVX-D30 can be powered by a 24 Vdc power pack (sold separately).

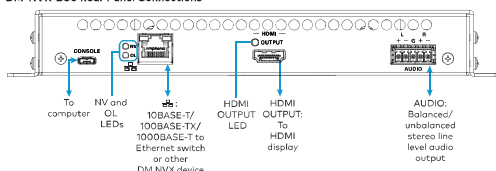
DM-NVX-E30 and DM-NVX-D30 Front Panel Connections



DM-NVX-E30 Rear Panel Connections



DM-NVX-D30 Rear Panel Connections



AUDIO Connector Pin Assignments

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

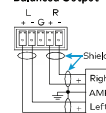
AUDIO Connector



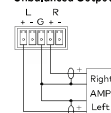
Refer to the following table and diagrams for analog audio output pin assignments and connection information.

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



LED Indicators

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

LED Indicator	Color	Meaning
PWR	Green	Power is being applied to the device via the power pack or power sourcing equipment (PSE). The device is operational.
	Amber	Power is being applied to the device via the power pack or power sourcing equipment (PSE). The device is booting.
SETUP	Red	The SETUP button is pressed.
NV	Green	(DM-NVX-E30 only) The device is encoding (transmitting) network video.
		(DM-NVX-D30 only) The device is decoding (receiving) network video.
OL	Green	The device is online with a control system.
LAN	Green	An Ethernet link is established.
	Flashing amber	Data activity is occurring on the Ethernet link.
HDMI INPUT (DM-NVX-E30 only)	Green	An HDMI signal is detected at the HDMI input.
HDMI OUTPUT (DM-NVX-D30 only)	Green	An HDMI signal is being transmitted at the HDMI output.

Upgrade the Firmware

Before using the device, upgrade the firmware. The latest firmware can be downloaded from 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 front 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*.

»» Connect to the Crestron XiO Cloud Service

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 Crestron XiO Cloud account.

To connect the device to the Crestron XiO Cloud service:

1. Record the MAC address and serial number that are labeled on the shipping box or rear panel of the device. The MAC address and serial number are required in order to add the device to the Crestron XiO Cloud environment.
2. Do either of the following:
 - If you have a Crestron XiO Cloud account, go to <https://portal.crestron.io> to access the Crestron XiO Cloud service.
 - If you do not have a Crestron XiO Cloud account, go to www.crestron.com/xiocloud to register for an account.

For detailed information about using the Crestron XiO Cloud service, refer to the Crestron XiO Cloud Service User Guide (Doc. 8214) at www.crestron.com/manuals.

»» Additional Information

Scan or click the QR code for detailed product information.



DM-NVX-E30



DM-NVX-D30

HDMI

Compliance and Legal

As of the date of manufacture, the product has been tested and found to comply with specifications for CE marking.



Federal Communications Commission (FCC) Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee

that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Industry Canada (IC) Compliance Statement

CAN ICES-3(B)/NMB-3(B)

The product warranty can be found at www.crestron.com/manuals/terms-and-conditions-warranty.

The specific patents that cover Crestron products are listed at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, visit www.crestron.com/legal/open-source-software.

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Specifications subject to
change without notice.