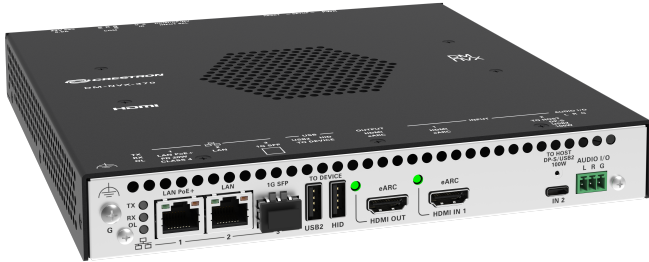


DM-NVX-370

DM NVX® 4K60 4:4:4 AV-over-IP Encoder/Decoder with HDMI® and USB-C® Connectivity



- *Powered by the DM NVX SoC (System on Chip), optimized and purpose-built for AV-over-IP*
- *2x1 video switcher with one HDMI® and one USB-C® video input*
- *4K60 4:4:4 video over standard Gigabit Ethernet*
- *Pixel Perfect Processing technology*
- *Enterprise-grade security including 802.1X, Active Directory® credential management, TLS, and AES-128*
- *Configurable as an encoder or decoder*
- *One scaling HDMI output with video wall capability*
- *eARC support available on HDMI connection to display and HDMI input*
- *7.1 surround sound audio*
- *AES67 audio embedding and de-embedding*
- *USB 2.0 and KVM signal extension and routing, including local passthrough*
- *Automatic point-to-point connectivity*
- *Easy setup via built-in web interface, XiO Cloud® service, or DM NVX Director® virtual switching appliances*
- *Compatibility with a Crestron® 3-Series® or 4-Series® control system*
- *Crestron Home® OS support*
- *Powered via PoE+ or optional power pack (sold separately)*

The [DM-NVX-370](#) is a compact DM NVX® AV-over-IP encoder/decoder designed to function as either a transmitter or receiver. Capable of handling a network AV installation of any size, the DM-NVX-370 includes features such as secure web-based control and management, a scaling HDMI output, video wall processing, an analog audio input or output¹, native AES67 transmit and receive capability, support for copper and fiber Ethernet connectivity^{2,3}, and USB 2.0 and KVM (keyboard, video, and mouse) integration.

DM NVX System on Chip

The DM-NVX-370 is a first-generation endpoint that utilizes the DM NVX System on Chip (SoC). As a dedicated, purpose-built chip, the SoC allows for a smaller form-factor and more efficient heat dissipation than previous DM NVX system designs. The SoC is fully interoperable with all other DM NVX endpoints and maintains the Pixel Perfect Processing performance of the DM NVX AV-over-IP platform.

HDMI and USB-C 2x1 Input Switching

The DM-NVX-370 includes one HDMI® input and one USB-C® that comprise a 2x1 video switcher. Switching between the two inputs can be performed automatically using autoswitching mode, programmatically via a control system, or through the web interface. When mounted behind a conference room display device, the HDMI input provides a convenient way to connect a Crestron [AirMedia®](#) presentation gateway, video-conferencing codec, or small form factor computer. The USB-C input allows for a DisplayPort™ Alt Mode video connection to laptops that do not feature an HDMI connection. The USB-C connector also enables bidirectional USB 2.0 data transfer between the host PC and local USB HID devices (or remote DM NVX and DM NUX endpoints) and supports up to 100 W of USB Power Delivery (PD) to the connected device.

NOTE: The [PW-2460DU](#) power supply (sold separately) is required to support device charging.

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eARC Support

The HDMI output of the DM-NVX-370 supports Enhanced Audio Return Channel (eARC) connectivity, enabling audio to be extracted from a connected display and transmitted over the network as a multichannel audio-over-IP (AoIP) stream. With eARC support, only a single cable is required for A/V input and audio output from the display. This also makes local audio content from the display (such as smart TV streaming applications) available to an AoIP audio distribution system.

The HDMI input supports eARC as an audio output to pass content from a multichannel AoIP stream to the HDMI output of a connected AVR. The multichannel stream generated by the DM NVX endpoint is also compatible with the [DM-NAX-XSP](#) (sold separately) for zones where video transmission is not required.

Real-Time 4K60 Video Distribution

DM NVX technology ensures real-time, full-motion 4K60 video performance for presenting multimedia, videoconferencing, and live camera images. Interactive functions such as gameplay and using a mouse are fluid and natural. Line-synchronized outputs ensure synchronization of content across multiple displays for applications such as digital signage and video walls. Variable Multicast Time-to-Live (TTL) support enables multicast traffic to traverse multiple routers.

Pixel Perfect Processing Technology

A DM NVX system incorporates Pixel Perfect Processing technology, which provides flawless video transport over the network. Depending on the operating mode, the DM-NVX-370 can encode or decode a video signal to achieve end-to-end latency of less than one frame. The image quality of the source is maintained across a 1 Gbps network at resolutions up to 4K60 4:4:4.⁴

Enterprise-Grade Security

A DM NVX system delivers a true enterprise-grade network AV solution that is engineering to fulfill demanding IT policies. Advanced security features and protocols that are supported include 802.1X authentication, Active Directory® credential management, AES-128 content encryption, PKI authentication, TLS, SSH, and HTTPS.

Encoder or Decoder Functionality

The DM-NVX-370 is configurable to operate as either a network AV encoder or decoder. As an encoder, the connected media source can be transmitted over the network to one or many decoders. As a decoder, the device feeds the received signal to a connected display device and can quickly switch between multiple encoder feeds. The operating mode can be reconfigured dynamically in less than one minute via a control system or web browser or can be changed by using the built-in **SETUP** button.

HDMI Output with 4K60 4:4:4 Scaler

Whether configured as an encoder or decoder, the built-in scaler ensures an optimal image, scaling the encoded source resolution up or down to match the native resolution of the display device.⁵

Video Wall Processing

A video wall composed of up to 64 individual displays can be configured using multiple DM NVX endpoints. Each endpoint provides fully adjustable zoom capability and bezel compensation to accommodate a range of video wall configurations and display types. One DM NVX endpoint is required per display, supporting configurations of up to eight wide by eight high.

7.1 Surround Sound Audio

DM NVX technology supports the lossless transport of 7.1 surround sound audio signals, including Dolby® TrueHD, Dolby Atmos®, DTS HD®, DTS:X®, and uncompressed linear PCM. In decoder mode, the DM-NVX-370 can receive both multichannel and 2-channel downmix signals from an encoder, allowing either signal to be selected at the HDMI output while the 2-channel signal is automatically routed to the analog output.

Audio Embedding or De-embedding

AES67 support via native integration of Crestron DM NAX® audio-over-IP technology allows the selected audio source to be transmitted as a 2-channel AES67 source. Another AES67 2-channel audio stream can be received from another AES67 capable device or Crestron DM NAX device simultaneously and combined with the video signal.

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In DM NVX encoder mode, the received AES67 audio stream can be output via the primary AV stream, secondary audio stream, local HDMI output, and analog audio output. In decoder mode, the AES67 received audio stream can be combined with the video and then output via the HDMI and analog audio outputs.

An unbalanced stereo analog audio port is also included, which can be configured as either an input or output.¹

Copper and Fiber Ethernet Connectivity

The DM-NVX-370 includes two RJ-45 1000BASE-T ports (Ethernet ports 1 and 2) and one SFP port (Ethernet port 3). Any Ethernet port can be used to transport video over a Gigabit Ethernet network. The ports can also be used to daisy chain multiple endpoints feeding a single-source video wall or individual displays that show the same video image.²

A DM NVX system can be deployed on an existing corporate or campus network or on a dedicated network. For information about network requirements and guidelines, refer to the [AV-over-IP Network Design Guide](#).

USB 2.0 and KVM Integration

DM NVX technology supports the extension of USB signals, which can be switched and routed alongside the AV signal or separately via a control system. USB 2.0 ports are provided on the DM-NVX-370, allowing a USB mouse, keyboard, or other peripheral device to be paired with a computer or other host either at the local endpoint or a remote endpoint over the network.⁶

USB 2.0 Layer 3 data transport supports USB signal extension in DM NVX point-to-point applications across VLANs.

Streamlined Management Using a DM NVX Director Virtual Switching Appliance

For small to moderate-sized applications, a DM NVX endpoint network can be configured and controlled via a control system. For larger enterprise and campus-wide signal routing applications, adding a DM NVX Director virtual switching appliance ([DM-NVX-DIR-ENT](#) or [DM-NVX-DIR2](#)) enhances and streamlines the entire configuration and control process. A DM NVX Director appliance provides centralized management and enables creating multiple virtual matrix switchers through one easy-to-use web-based portal.

Crestron XiO Cloud Service Support

The DM-NVX-370 is compatible with the XiO Cloud® service, which is an IoT (Internet of Things) based platform for remotely provisioning, monitoring, and managing Crestron devices across an enterprise or an entire client base. XiO Cloud is built on the Microsoft® Azure® software platform and utilizes Microsoft's industry leading Azure IoT Hub technology. XiO Cloud enables installers and IT managers to deploy and manage thousands of devices simultaneously. Unlike other virtual machine based cloud solutions, Azure services provide unlimited scalability to suit the ever growing needs of an enterprise. For more information, visit www.crestron.com/xiocloud.

Low-Profile Installation

The DM-NVX-370 mounts conveniently to a flat surface or rack rail, and it fits easily behind a flat panel display, above a ceiling-mounted projector, beneath a tabletop, or inside a lectern, AV cart, or equipment cabinet. All connectors and LED indicators are positioned on the front and rear of the device, offering optimal access and visibility for a clean, serviceable installation. Power is provided using PoE+ or the optional power pack (sold separately).⁷

Specifications

Encoding/Decoding

Video Codec	Encoder: Pixel Perfect Processing (default) or DM-NVX-D10/D20/D200 Series ⁸ ; Decoder: Pixel Perfect Processing or DM-NVX-E10/E20 Series ⁸
Video Resolutions	Up to 4096x2160@60Hz (DCI 4K60); 4:4:4 color sampling; HDR10, HDR10+, Dolby Vision®, and Deep Color support
Audio Formats	Primary multichannel (up to 8-channel LPCM or encoded HBR 7.1 surround sound), secondary 2-channel LPCM

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Bit Rates Encoder: Fixed (200 to 950 Mbps - user specified),⁹
Adaptive (dependent on input resolution of the stream), or
Variable (less than 150 Mbps to maximum of 750 Mbps, dependent on content and input resolution of the stream);
Decoder: Based on the stream received from the encoder

Streaming Protocols RTP, SDP

Container MPEG-2 transport stream (.ts)

Session Initiation Multicast via secure RTSP

Copy Protection HDCP 2.3, AES-128, PKI

Video

Input Signal Types HDMI® with HDR10, HDR10+, Dolby Vision, Deep Color, and 4K60 4:4:4 support^{4,10} (Dual-Mode DisplayPort™ interface and DVI compatible¹¹);
DisplayPort over USB-C® (DisplayPort Alt Mode) with HDR10, HDR10+, and 4K60 4:4:4 support⁴

Output Signal Types HDMI with HDR10, HDR10+, Dolby Vision, Deep Color, and 4K60 4:4:4 support⁴ (DVI compatible¹¹)

Switcher 2x1 in encoder mode (one HDMI, one USB-C), manual or auto-switching, breakaway audio¹², Crestron QuickSwitch HD™ technology;
3x1 in decoder mode (HDMI, USB-C, Stream), manual or auto-switching, breakaway audio¹², Crestron QuickSwitch HD™ technology

Scaler (Decoder Mode Only) 4K60 4:4:4 video scaler with motion-adaptive deinterlacing, intelligent frame rate conversion, Deep Color support, HDR10, HDR10+, and Dolby Vision support, widescreen format selection (zoom, stretch, maintain aspect ratio, or 1:1), video wall processing up to 8 wide x 8 high, static or dynamic text overlay

Copy Protection HDCP 2.3

Resolutions Common resolutions are listed in the following table.

Scan Type	Resolution	Frame Rate	Color Sampling	Color Depth
Progressive	4096x2160 DCI 4K and 3840x2160 4K UHD	30 Hz	4:4:4	12 bit
		60 Hz	4:2:0	12 bit
		60 Hz	4:2:2	12 bit
		60 Hz	4:4:4	8 bit
	2560x1600 WQXGA Reduced Blanking	60 Hz	4:4:4	12 bit
	2560x1440 WQHD Reduced Blanking	60 Hz	4:4:4	8 bit
		120 Hz	4:4:4	8 bit
	2048x1080 DCI 2K	60 Hz	4:4:4	12 bit
	1600x1200 UXGA	60 Hz	4:4:4	12 bit
	1920x1200 WUXGA	60 Hz	4:4:4	12 bit
	1920x1080 FHD 1080p	60 Hz	4:4:4	12 bit
		120 Hz	4:4:4	8 bit
		240 Hz	4:4:4	8 bit

NOTE: Interlaced signals are not supported.

Audio

Input Signal Types HDMI (Dual-Mode DisplayPort interface compatible¹¹), DisplayPort over USB-C (DisplayPort Alt Mode¹³), analog stereo¹

Output Signal Types HDMI (multichannel pass-through), analog stereo¹

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Digital Formats	Dolby Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS®, DTS ES, DTS 96/24, DTS HD High Res, DTS HD Master Audio, DTS:X, LPCM up to 8 channels
Analog Formats	Stereo 2-channel
Analog-to-Digital Conversion	24-bit, 48 kHz
Digital-to-Analog Conversion	24-bit, 48 kHz
AES67	24-bit, 48 kHz
Analog Performance	Frequency Response: 20 Hz to 20 kHz ± 0.5 dB; S/N Ratio: >95 dB 20 Hz to 20 kHz A-weighted; THD+N: <0.005% @ 1 kHz; Stereo Separation: >90 dB
Analog Output Volume Adjustment	-80 to +20 dB

Communications

Ethernet	Autoswitching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1X, IPv4, IPv6, Active Directory authentication, variable Multicast TTL, HTTPS web browser setup and control, Crestron 3-Series or later control system integration
USB	USB 2.0 device signal extension and routing, Layer 2 or Layer 3
RS-232	2-way device control up to 115.2k baud (via control system)
IR/Serial	1-way device control via infrared up to 1.1 MHz or serial TTL (0-5V) up to 19.2k baud (via control system)
HDMI	HDCP 2.3, EDID, CEC

USB-C (DisplayPort Alt Mode)	HDCP 2.3, EDID, USB 2.0
DM NVX AV-over-IP (via Ethernet)	HDCP 2.3, AES-128 AV content encryption with PKI authentication, RTP, secure RTSP, SDP, ONVIF, IGMPv2, IGMPv3, SMPTE 2022, FEC (Forward Error Correction)

Connectors

USB2 TO DEVICE	(1) USB Type-A connector, female; USB 2.0 device port; USB signal extender port for connection to a mouse, keyboard, or other USB 2.0 device; ⁶ Available Power: 1A at 5VDC ¹⁴
HID TO DEVICE	(1) USB Type-A connector, female; USB 2.0 host port; USB signal extender port for connection to a USB HID compliant mouse, keyboard, or other USB HID compliant device; ⁸ Available Power: 1A at 5VDC ¹⁴
Ethernet 1	(1) 8-pin RJ-45 connector, female; 100BASE-TX/1000BASE-T Ethernet port; ² PoE+ PD (powered device) port, IEEE 802.3at Type 2 Class 4 (25.5 W) compliant ¹⁵
Ethernet 2	(1) 8-pin RJ-45 connector, female; 1000BASE-T Ethernet port ²
Ethernet 3	(1) SFP port; Accepts one Crestron SFP-1G Series transceiver module ³
HDMI OUT (eARC)	(1) HDMI Type A connector, female; HDMI digital video/audio output ⁴ (DVI compatible ¹¹)
HDMI IN 1 (eARC)	(1) HDMI Type-A connector, female; HDMI digital video/audio input; ⁴ (DVI and Dual-Mode DisplayPort interface compatible ¹¹)

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TO HOST DP-S USB2 (IN 2) (1) USB Type-C® connector, female; USB 2.0 host port; USB signal extender port for connection to a computer or other USB 2.0 host; DisplayPort single stream video input¹³; 100W Power Delivery @ 5A

NOTE: The [PW-2460DU](#) power supply (sold separately) is required to support device charging.

AUDIO I/O (1) 3-pin 3.5 mm detachable terminal block; Unbalanced stereo line-level audio input or output;¹ Input Impedance: 24 kΩ; Maximum Input Level: 2Vrms; Output Impedance: 100 Ω; Maximum Output Level: 2Vrms

IR 1 (1) 2-pin 3.5 mm detachable terminal block; IR output up to 1.1 MHz; 1-way serial TTL/RS-232 (0-5V) up to 19200 baud; [IRP2](#) emitter sold separately

COM (1) 3-pin 3.5 mm detachable terminal block; Bidirectional RS-232 port; Up to 115.2k baud, hardware and software handshaking support

24VDC 6A (1) 2.1 x 5.5 mm DC power connector; 24VDC power input; [PW-2460DU](#) power pack (sold separately)

G (1) 6-32 screw; Chassis ground lug

Controls and Indicators

PWR (1) Bicolor green/amber LED; Indicates operating power supplied via PoE+ or the included power pack; Amber indicates device is booting; Green indicates device is operational

SETUP (1) Red LED and (1) push button, displays onscreen IP address and also used to change operating mode (TX or RX)

RESET (1) Recessed push button, restarts the device

INPUT SEL (1) Push button, cycles through the available video sources (HDMI and USB-C in encoder mode; HDMI, USB-C, and AV-over-IP in decoder mode); (3) Green LEDs, indicates the currently selected video input source

OL (1) Green LED, indicates an online connection to a control system via Ethernet

TX (1) Green LED, indicates unit is in encoder (transmitter) mode

RX (1) Green LED, indicates unit is in decoder (receiver) mode

Ethernet 1-3 (2) LEDs per port; Green indicates Ethernet links status; Amber indicates Ethernet activity

HDMI OUT (1) Green LED, indicates video signal transmission at the HDMI output

INPUT 1-2 (2) Green LEDs, each indicates sync detection at the corresponding video input

Power

PoE+ IEEE 802.3at Type 2 Class 4 (25.5 W) compliant; Compatible with PoE+ compliant Ethernet switch or third-party IEEE 802.3at compliant PSE;¹⁵ Max power consumption: 13.7W

Power Pack (Optional) Input: 100-240VAC, 50/60 Hz; Output: 6.0A @ 24VDC; Model: [PW-2460DU](#) (sold separately, required for USB-C device charging)

Environmental

Temperature 32° to 104°F (0° to 40°C)

Humidity 10% to 90% RH (noncondensing)

Heat Dissipation 47 BTU/hr

Construction

Chassis Metal, black finish, fan cooled; Vented top, front, bottom, and sides

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Mounting Freestanding, surface mount, or attach to a single rack rail using included mounting plates

Dimensions

Height 8.55 in. (217 mm)
Width 8.36 in. (212 mm)
Depth 1.22 in. (31 mm)

Weight

2.38 lb (1.08 kg)

Compliance

Regulatory Model: M202234001

ETL Listed for the United States and Canada to UL/IEC 62368-1 safety standards. CE compliant for applicable European Union requirements.

Model

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Available Accessories

For a list of available accessories, visit the [DM-NVX-370](#) product page.

Notes:

1. The analog audio port can function as an input or output, not both.
2. The minimum cable required for DM NVX® over 1000BASE-T Ethernet (copper) is unshielded CAT5e. All Ethernet ports on the DM-NVX-370 are for connecting to an Ethernet network or device. The Ethernet ports cannot be connected to the DM® ports of other Crestron devices.
A nonblocking network is required for DM NVX devices.
3. Use of the SFP port requires the purchase of a Crestron [SFP-1G](#) Series transceiver module (sold separately). All Ethernet ports on the DM-NVX-370 are for connecting to an Ethernet network or device. The Ethernet ports cannot be connected to the DM ports of other Crestron DigitalMedia™ devices.
4. 4K60 4:4:4 performance and HDR support require the use of HDMI® cables and couplers with a minimum TMDS bandwidth of 18 Gbps. If 4K60 4:2:0 or 4K30 4:4:4 performance is acceptable, cables and couplers with a minimum bandwidth of 10.2 Gbps may be used. Bandwidth loss is cumulative; therefore, performance may be reduced when inserting multiple cables and couplers inline.

5. When the DM-NVX-370 is in encoder mode, the HDMI output resolution is matched to the resolution of the encoded source.
6. Crestron DM NVX products are engineered to deliver maximum compatibility with the widest possible range of USB products. Crestron does not guarantee that all USB products are compatible with DM NVX products. Refer to the [AV-over-IP Network Design Guide](#) for USB bandwidth considerations.
7. Refer to the "Power" specifications section for approved powering options.
8. In encoder mode, the stream type of the DM-NVX-370 must be set by using the web interface or a control system. The default setting is Pixel Perfect Processing for interoperability with DM NVX 4K60 4:4:4 encoders. For interoperability with a DM-NVX-D10, DM-NVX-D20, or DM-NVX-D200 decoder, the stream type of the DM-NVX-370 encoder must be set to DM-NVX-D10/D20/D200 Series. In addition, the resolution of the encoder must be set so that it does not exceed the maximum resolution of the DM-NVX-D10, DM-NVX-D20, or DM-NVX-D200 decoder.

In decoder mode, the proper stream type of the DM-NVX-370 is automatically used. For interoperability with DM NVX 4K60 4:4:4 encoders, Pixel Perfect Processing is automatically used as the stream type of the DM-NVX-370 decoder. For interoperability with DM-NVX-E10/E20 Series encoders, DM-NVX-E10/E20 Series is automatically used as the stream type of the DM-NVX-370 decoder.
9. The minimum bit rate for 4K60 video is 350 Mbps. A bit rate below 350 Mbps may cause a black screen to be displayed.
10. 3D formats are not supported.
11. HDMI connections require an appropriate adapter or interface cable to accommodate a DVI or Dual-Mode DisplayPort™ signal.
12. Audio from one onboard video input cannot be combined with video from the other onboard video input. Combining audio from one encoder with video from another encoder is possible using the 2-channel AES67 audio stream only. Multichannel audio from one encoder cannot be combined with video from another encoder.
13. USB-C® connections require USB-C cables that support DisplayPort Alt Mode video in order to pass video signal. Not all USB-C cables can support DisplayPort Alt Mode video.
14. When PoE+ is used to power the DM-NVX-370, a maximum of 1A is available to power both the USB device and HID ports. To prevent possible instability issues, it is recommended that the power pack (sold separately) be used. The full 1A is shared between the USB 2.0 ports.
15. In order for Ethernet port 1 to receive PoE+, the port requires connection to a PoE+ compliant Ethernet switch or other equipment that has a PoE+ PSE port. Cabling that connects to a PoE+ PSE port is designed for intrabuilding use only.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/How-To-Buy/Find-a-Representative](#) or contact us for additional information by visiting [www.crestron.com/contact/our-locations](#) for your local contact.

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

The product warranty can be found at [www.crestron.com/warranty](#).

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HDMI

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