

- 4K6O 4:4:4 video over standard Gigabit Ethernet
- HDR10, HDR10+, and Dolby Vision® video support
- Real-time video performance over the network
- Pixel Perfect Processing technology
- Enterprise-grade security including 802.1X, Active Directory® credential management, TLS, and AES-128
- HDCP 2.3 compliant
- · Configurable as an encoder or decoder
- One HDMI® input
- One HDMI output with 4K60 4:4:4 scaler
- Video wall processing
- Dynamic text overlay capability
- Adaptive bit rate
- Analog audio embedding or de-embedding
- 7.1 surround sound audio with downmixing
- Dante® or AES67 audio embedding or de-embedding
- Breakaway audio
- USB 2.0 and KVM signal extension and routing
- Copper and fiber Ethernet connectivity
- Device control via RS-232, IR, and CEC
- Easy setup via built-in web pages
- Interoperable with a Crestron 3-Series® or later control system
- Streamlined management using DM NVX Director™ virtual switching appliances
- Crestron XiO Cloud® service support
- Compact, surface-mountable design
- Powered via POE+ or optional power pack (sold separately)

Crestron® <u>DM NVX®</u> technology transports ultra high-definition 4K6O 4:4:4 video over standard Gigabit Ethernet with no perceptible latency or loss of quality. Using standard network switches and CAT5e UTP wiring, a DM NVX system delivers a high-performance virtual matrix routing solution that is economically advantageous and infinitely scalable for any enterprise or campus-wide 4K content distribution application. Professional onboard scaling, HDR (High Dynamic Range) support, and HDCP 2.3 compliance ensure the ultimate in picture quality and compatibility for all of today's varied media sources.^{1, 2}

The DM-NVX-363 is a compact 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-363 includes features such as secure web-based control and management, a scaling HDMI® output, video wall processing, an analog audio input or output, surround sound audio with downmixing, native Dante® and AES67 transmit and receive capability, USB 2.0 and KVM integration, and support for copper and fiber Ethernet connectivity.^{2,3}

Real-Time 4K60 Video Distribution

Engineered for demanding conference room and classroom applications, DM NVX technology ensures real-time, full-motion 4K60 video performance for the presentation of multimedia, videoconferencing, and live camera images. Interactive functions such as gameplay and using a mouse are fluid and natural.

A DM NVX system also provides stability and reliability. Line-synchronized outputs ensure perfect synchronization of content across multiple displays for applications such as digital signage and video walls. Variable Multicast TTL (Time To Live) enables traversing multiple network routers for optimal flexibility.

Pixel Perfect Processing Technology

A DM NVX system incorporates Pixel Perfect Processing technology, which provides flawless video transport in all applications. Depending on the operating mode, the DM-NVX-363 can encode or decode a video signal to achieve imperceptible end-to-end latency of less than 1 frame. The image quality of the source is maintained across a 1-Gigabit network at any resolution up to 4K60 4:4:4.

Enterprise-Grade Security

Using advanced security features and protocols such as 802.1X authentication, Active Directory® credential management, AES-128 content encryption, PKI authentication, TLS, SSH, and HTTPS, a DM NVX system delivers a true enterprise-grade network AV solution engineered to fulfill demanding IT policies.



Encoder or Decoder Functionality

The DM-NVX-363 is configurable to operate as either a network AV encoder or decoder:

- As an encoder, the DM-NVX-363 allows the HDMI signal of a laptop computer, camera, or other media source to be transmitted over the network to one or many decoders.¹
- As a decoder, the DM-NVX-363 receives the signal from a DM NVX encoder and feeds it to a display device via the HDMI output. The decoder can quickly and easily switch between multiple encoders on the network alongside a locally connected HDMI source.¹

The DM-NVX-363 provides a versatile and cost-effective solution for applications that require encoder and decoder operating modes in a single device. The operating mode can be reconfigured dynamically in less than 1 minute via a control system or web browser or can be changed by using the onboard Setup button.

HDMI® Input

The DM-NVX-363 includes one HDMI input. When the DM-NVX-363 is used as a decoder mounted behind a typical conference room display device, the HDMI input provides a convenient way to connect to a Crestron AirMedia® presentation gateway, videoconferencing codec, or small form factor computer.¹

HDMI Output with 4K60 4:4:4 Scaler

When the DM-NVX-363 is configured as a decoder, the HDMI output feeds the decoded signal to the HDMI input of a local display device or other equipment. 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. When the DM-NVX-363 is configured as an encoder, the HDMI output can be used to feed a local display, confidence monitor, or audio system.^{1,4}

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.

Text Overlay

The ability to display dynamic or fixed text on screen provides a means to label the video source or to display special instructions, schedules, announcements, alerts, and other messaging.

Adaptive Bit Rate

In DM NVX encoder mode, adaptive bit rate can be enabled or disabled using the web interface or a control system. Adaptive bit rate enables the encoder to automatically set the bit rate required for the input resolution of the stream; for example, the adaptive bit rate for a common resolution such as 1920x1080p@60Hz (1080p60) would automatically be set to 400 Mbps. The bit rate is adjusted to make better use of the available bandwidth.

Analog Audio Embedding or De-embedding

A balanced stereo analog audio port is included, which can be configured as either an input or output. As an input, the port allows a stereo audio source to be connected and combined with the video signal from the HDMI input or the incoming network video stream. As an output, the port can provide a stereo line-level signal to feed a local sound system or soundbar. The output volume is adjustable via a control system or web browser.⁵

7.1 Surround Sound Audio with Downmixing

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. The DM-NVX-363 can decode the incoming multichannel surround sound signal from the network or an HDMI input and then downmix that signal to stereo. The stereo downmix signal is automatically routed to the onboard analog output⁵, while the HDMI output can be configured to output either stereo or multichannel signals. As an encoder, the DM-NVX-363 distributes both stereo and multichannel signals simultaneously over the network, allowing either signal to be selected at any decoder on the network.

Dante® or AES67 Audio Embedding or De-embedding

Dante and AES67 support allows the selected audio source to be transmitted as a 2-channel Dante or AES67 source while another Dante or AES67 2-channel audio stream is received from a Crestron DSP or other third-party device and combined with the video signal.

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

NOTE: An AES67 stream that is received by a DM NVX endpoint cannot be transmitted from that endpoint.



Breakaway Audio

A DM NVX decoder can select and combine separate video and audio signals from two different inputs—even two different encoders. Combining signals from two separate encoders is limited to 2-channel stereo audio.⁶

Copper and Fiber Ethernet Connectivity

The DM-NVX-363 includes two RJ-45 1000BASE-T ports (Ethernet ports 1 and 2), one RJ-45 100BASE-TX port (Ethernet port 3), and one SFP port (Ethernet port 4). The SFP port enables connection to a fiber-optic network with the use of the appropriate Crestron SFP-1G Series transceiver module (sold separately). A selection of modules is offered to accommodate various multimode and single-mode fiber types.³

Ethernet port 1, 2, or 4 can be used to transport video over a Gigabit Ethernet network. Ports 1 and 2 can also be used to provide network connections for an <u>AirMedia</u> gateway, display device, or other local device. In addition, the ports can be used to daisy-chain multiple endpoints feeding a single-source video wall or individual displays that show the same video image. Port 1 is also capable of receiving power from a Crestron power injector (<u>DM-PSU-ULTRA-MIDSPAN</u>), POE+ compliant Ethernet switch, or third-party IEEE 802.3at compliant PSE (power sourcing equipment).^{2,7}

An RJ-45 100 BASE-TX port is included for connection to a dedicated audio network or for use as a convenience port.

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 DM NVX AV-over-IP System Design Guide, Doc. 7977, at https://www.crestron.com/nvx.

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 HOST and DEVICE ports are provided on the DM-NVX-363, allowing a USB mouse, keyboard, or other peripheral device to be connected to a remote endpoint and routed to a computer or other host at the local endpoint. In addition to KVM switch functionality, various types of USB peripherals are supported, including whiteboards, touch screens, game controllers, cameras, mobile devices, headsets, and flash drives.⁸

USB 2.0 data transport can be configured for Layer 2 or Layer 3. Layer 2 supports USB signal extension in point-to-point and multipoint applications. USB signals can be routed from the HOST port of up to seven remote DM NVX endpoints to the DEVICE port of a single local DM NVX endpoint. Layer 2 also supports Crestron USB over Ethernet Network devices (USB-NX2-LOCAL-1G and USB-NX2-REMOTE-1G), which can be used in locations that do not include DM NVX endpoints. USB signals can be routed between DM NVX and USB-NX2 devices under the management of a control system.

USB 2.0 Layer 3 data transport supports USB signal extension in DM NVX point-to-point applications across VLANs. USB-NX2 devices do not support Layer 3.

Device Control

The DM-NVX-363 includes built-in COM (RS-232) and IR ports for control of the connected display, camera, or other devices under the management of a control system. Additional control capability is provided by CEC (Consumer Electronics Control) over the HDMI connections. Under the management of a control system, the DM-NVX-363 can control the display and source devices, potentially eliminating the need for dedicated serial cables or IR emitters.

The COM port, IR port, and CEC over the HDMI output can also enable the display device to be turned on or off automatically without the use of a control system.

Web-Based Setup

Setup of the DM-NVX-363 is accomplished by using a web browser. Full control and monitoring of the device is enabled through integration with a control system or with a DM NVX Director $^{\text{M}}$ virtual switching appliance.

Streamlined Management Using DM NVX Director Virtual Switching Appliances

Use of a DM NVX Director virtual switching appliance (DM-NVX-DIR-80, DM-NVX-DIR-160, or DM-NVX-DIR-ENT) streamlines the entire configuration and control process. A DM NVX Director appliance provides a central point of management and enables the creation of multiple virtual matrix switchers through one easy-to-use web-based portal.

Crestron XiO Cloud® Service Support

The DM-NVX-363 is compatible with the Crestron XiO Cloud service, which is a platform for remotely provisioning, monitoring, and managing Crestron devices across an enterprise or an entire client base. The service enables installers and IT managers to deploy and manage thousands of devices in the amount of time it previously took to manage a single device. For more information, visit www.crestron.com/xiocloud.

Low-Profile Installation

The DM-NVX-363 mounts conveniently onto a flat surface or rack rail, and 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 Crestron PW-2412WU power pack (sold separately).⁷

For additional design tools and reference documents, refer to the DM NVX web page at https://www.crestron.com/nvx.



Specifications

Encoding/Decoding

Video Codec Pixel Perfect Processing

Video Up to 4096x2160@60Hz (DCI 4K60); 4:4:4 Resolutions color sampling; HDR10, HDR10+, Dolby Vision,

and Deep Color support

Audio Primary multichannel (up to 8-channel LPCM

or encoded HBR 7.1 surround sound), **Formats**

secondary 2-channel LPCM9

200 to 950 Mbps¹⁰ **Bit Rates**

RTP, SDP **Streaming**

Protocols

Container: MPEG-2 transport stream (.ts)

Session Multicast via secure RTSP

Initiation

Сору HDCP 2.3, AES-128, PKI

Protection

Video

Input Signal Types

HDMI with HDR10, HDR10+, Dolby Vision, Deep Color, and 4K60 4:4:4 support^{1, 11} (Dual-Mode DisplayPort™ interface and DVI

compatible¹²)

Output Signal Types

HDMI with HDR10, HDR10+, Dolby Vision, Deep Color, and 4K60 4:4:4 support¹ (DVI

compatible 12)

Switcher 2x1 in decoder mode (HDMI, Stream), manual

or auto-switching, breakaway audio,⁶ Crestron

QuickSwitch HD™ technology

Scaler (Decoder Mode Only) 4K6O 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

Сору HDCP 2.3

Protection

Maximum Common resolutions are shown in the Resolutions following table. Custom resolutions are

supported at pixel clock rates up to 600 MHz.

Scan Type	Resolution	Frame Rate	Color Sampling	Color Depth	
Progressive	4096x2160 DCI 4K and 3840x2160 4K UHD	24 Hz	4:4:4	36 bit	
		30 Hz	4:4:4	36 bit	
		60 Hz	4:2:2	36 bit	
		60 Hz	4:4:4	24 bit	
	2560x1600 WQXGA	60 Hz	4:4:4	36 bit	
	1920x1080 HD 1080p	60 Hz	4:4:4	36 bit	
Interlaced (Input Only)	1920x1080 HD 1080i	30 Hz	4:4:4	36 bit	

Audio

Input Signal HDMI (Dual-Mode DisplayPort interface

compatible¹²), analog stereo⁵ Types

HDMI (multichannel pass-through), analog Output Signal stereo (2-channel downmix)⁵ Types

Digital Dolby Digital®, Dolby Digital EX, Dolby Digital

Formats 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

Stereo 2-channel Analog **Formats**

Analog-to-24-bit 48 kHz

Digital Conversion

Digital-to-24-bit 48 kHz

Analog Conversion

Dante or 24-bit 48 kHz

Analog Performance

AES67

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



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Ethernet Auto-switching, auto-negotiating, auto-

discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1X, IPv4, Active Directory authentication, variable Multicast TTL, HTTPS web browser setup and control, Crestron 3-Series or later control system

integration

USB 2.0 host or device signal extension and

routing, Layer 2 or Layer 3

RS-232 2-way device control and monitoring up to

115.2k baud with hardware and software handshaking (via control system); computer

console (for setup)

IR/Serial 1-way device control via infrared up to 1.1 MHz

or serial TTL (0-5 V) up to 19.2k baud (via

control system)

HDMI HDCP 2.3, EDID, CEC

DM NVX (via HDCP 2.3, AES-128 AV content encryption with PKI authentication, RTP, secure RTSP,

with PKI authentication, RTP, secure RTSP, SDP, ONVIF, IGMPv2, IGMPv3, SMPTE 2022,

FEC (Forward Error Correction)

Connectors

USB DEVICE (1) USB 2.0 Type-C[™] connector, female;

USB 2.0 device port;

USB signal extender port for connection to a

computer or other USB 2.0 host⁸

USB HOST (1) USB Type-A connector, female;

USB 2.0 host port;

USB signal extender port for connection to a mouse, keyboard, or other USB 2.0 device;⁸ Available Power: 500 mA at 5 VDC¹³

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USB HID (1) USB Type-A connector, female;

USB 2.0 host port;

USB signal extender port for connection to a mouse, keyboard, or other USB 2.0 device; Available Power: 500 mA at 5 VDC¹³

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 PoE+ Class 4 (25.5 W)

compliant^{7, 14}

Ethernet 2 (1) 8-pin RJ-45 connector, female;

100BASE-TX/1000BASE-T Ethernet port2

Ethernet 3 (1) 8-pin RJ-45 connector, female;

(10/100) 100BASE-TX Ethernet port

Ethernet 4 (1) SFP port;

Accepts one Crestron SFP-1G Series

transceiver module³

HDMI (1) HDMI Type A connector, female;
OUTPUT HDMI digital video/audio output¹

(DVI compatible¹²)

HDMI INPUT (1) HDMI Type A connector, female;

HDMI digital video/audio input;¹

(DVI and Dual-Mode DisplayPort interface

compatible¹²)

AUDIO I/O (1) 5-pin 3.5 mm detachable terminal block;

Balanced/unbalanced stereo line-level audio

input or output;5

Input Impedance: 24k Ohms balanced/

unbalanced;

Maximum Input Level: 4 Vrms balanced,

2 Vrms unbalanced;

Output Impedance: 200 Ohms balanced,

100 Ohms unbalanced;

Maximum Output Level: 4 Vrms balanced,

2 Vrms unbalanced

IR 1 – 2 (1) 4-pin 3.5 mm detachable terminal block;

Comprises (2) IR/Serial ports;

IR output up to 1.1 MHz;

1-way serial TTL (0-5 V) up to 19200 baud;

IRP2 emitter sold separately

COM (1) 5-pin 3.5 mm detachable terminal block;

Bidirectional RS-232 port;

Up to 115.2k baud, hardware and software

handshaking support

24VDC 1.25A (1) 2.1 x 5.5 mm DC power connector;

24 VDC power input;

PW-2412WU power pack (sold separately)

G (1) 6-32 screw;

Chassis ground lug

Controls and Indicators

PWR (1) Bi-color green/amber LED, indicates

operating power is being supplied, illuminates

amber while booting and green when

operating

SETUP (1) Red LED and (1) pushbutton for onscreen IP

address display and changing operating modes

(TX or RX)

RESET (1) Recessed pushbutton for hardware reset

INPUT SEL (1) Pushbutton for manual input selection and

(2) bi-color green/amber LEDs, indicate the current active input and signal presence at each corresponding input (HDMI and NV)

OL (1) Green LED, indicates an online connection

to a control system via Ethernet



NV (1) Green LED, indicates unit is encoding

(transmitting) or decoding (receiving) network

video

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

(transmitter) mode

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

(receiver) mode

Ethernet 1-2 (2) LEDs per port, green indicates Ethernet

link status, amber indicates Ethernet activity

Ethernet 3 (2) LEDs, amber indicates Ethernet link status,

green indicates Ethernet activity

Ethernet 4 LNK (1) Green LED, indicates Ethernet link status

Ethernet 4 ACT (1) Green LED, indicates Ethernet activity

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

HDMI INPUT (1) Green LED, indicates sync detection at the

HDMI input

Power

PoE+ IEEE 802.3at Type 2 Class 4 (25.5 W)

compliant;

Compatible with Crestron DM-PSU-ULTRA-MIDSPAN, PoE+ compliant Ethernet switch, or third-party IEEE 802.3at compliant PSE¹⁴

Power Pack

Input: 1.5 A maximum @ 100-240 VAC,

(Optional) 50/60 Hz

Output: 1.25 A @ 24 VDC

Model: <u>PW-2412WU</u> (sold separately)

Power Consumption 22 W typical

Environmental

Environmental

Temperature 32° to 104° F (0° to 40° C)

Humidity 10% to 90% RH (non-condensing)

Dissississ

Dissipation

Acoustic

33 dBA typical

74 BTU/hr

Noise

Enclosure

Chassis Metal, black finish, integral mounting flanges,

fan cooled; vented top, front, rear, and sides

Mounting Freestanding, surface mount, or attachment

to a single rack rail

Dimensions

 Height
 8.61 in. (219 mm)

 Width
 9.27 in. (236 mm)

Depth 1.25 in. (32 mm)

Weight

2.0 lb (0.91 kg)

Compliance

Intertek® Listed for US and Canada, CE, IC, FCC Part 15

Class B digital device

Model

DM-NVX-363

DM NVX 4K60 4:4:4 HDR Network AV Encoder/Decoder with

Downmixing and Dante® Audio

Available Accessories

PW-2412WU

Wall Mount Power Pack, 24 VDC, 1.25 A, 2.1 mm, Universal

SFP-1G-SX

SFP Transceiver Module for DM NVX Encoders/Decoders,

Duplex Multimode Fiber, 850 nm

SEP-1G-LX

SFP Transceiver Module for DM NVX Encoders/Decoders,

Duplex Single-Mode Fiber, 1310 nm

SFP-1G-BX-U

SFP Transceiver Module for DM NVX Encoders/Decoders,

Simplex Single-Mode Fiber, 1310/1490 nm, Uplink

SFP-1G-BX-D

SFP Transceiver Module for DM NVX Encoders/Decoders,

Simplex Single-Mode Fiber, 1490/1310 nm, Downlink

DM-PSU-ULTRA-MIDSPAN

Power Injector

IRP2:

IR Emitter with Terminal Block Connector

USB-NX2-LOCAL-1G

USB over Ethernet Network Wall Plate with Routing, Local

USB-NX2-REMOTE-1G

USB over Ethernet Network Wall Plate with Routing, Remote

CBL-HD-6

Crestron Certified HDMI Interface Cable, 18 Gbps, 6 ft (1.8 m)

DM-CBL-ULTRA-PC-10

DigitalMedia™ Ultra Patch Cable, 10 ft (3 m)

DM-CONN-ULTRA-RECP-20

DigitalMedia Ultra Keystone RJ-45 Jack, 20-Pack with Termination Tool

Management Tools

DM-NVX-DIR-80

DM NVX Director Virtual Switching Appliance for 80 Endpoints

DM-NVX-DIR-160

DM NVX Director Virtual Switching Appliance for 160 Endpoints

DM-NVX-DIR-ENT

DM NVX Director Virtual Switching Appliance for 1000 Endpoints

Notes:

- 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.
- 2. The minimum cable required for DM NVX over 1000BASE-T Ethernet (copper) is unshielded CAT5e. All Ethernet ports on the DM-NVX-363 are for connection to an Ethernet network or device. The Ethernet ports cannot be connected to the DM® ports of other Crestron devices.
- 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-363 are for connection to an Ethernet network or device. The Ethernet ports cannot be connected to the DM ports of other Crestron devices.
- 4. When the DM-NVX-363 is in encoder mode, the HDMI output resolution is matched to the resolution of the encoded source.
- 5. The analog audio port can function as an input or output—not both.
- Combining audio from one encoder with video from another encoder is
 possible using the secondary 2-channel audio stream only. Multichannel
 audio from one encoder cannot be combined with video from another
 encoder.
- 7. Refer to the "Power" specifications section for powering options.
- The DM-NVX-363 can be configured to accept the connection of a USB device or a USB host—not both. 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. Consult the DM NVX AV-over-IP System Design Guide, Doc. 7977, for USB bandwidth considerations
- As an encoder, the DM-NVX-363 transmits audio via the secondary 2-channel stream when it receives a 2-channel stereo input signal via the HDMI or analog input.

- The minimum bit rate for 4K60 video is 350 Mbps. A bit rate below 350 Mbps may display a black screen.
- 11. 3D formats are not supported.
- HDMI connections require an appropriate adapter or interface cable to accommodate a DVI or Dual-Mode DisplayPort signal. <u>CBL-HD-DVI</u> interface cables are available separately.
- 13. When PoE+ is used to power the DM-NVX-363, a maximum of 500mA is available to power both the USB HOST and USB HID ports. To prevent possible instability issues, it is recommended that the PW-2412WU power pack (sold separately) be used.
- 14. 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 by calling 855-263-8754

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

The specific patents that cover Crestron products are listed online at patents.crestron.com.

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

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