



New DM NVX® 10/20/200 AV-over-IP Encoders and Decoders

**Affordable, quality content sharing for every participant.
Designed for everyday use in meeting rooms, collaboration spaces, and classrooms.**

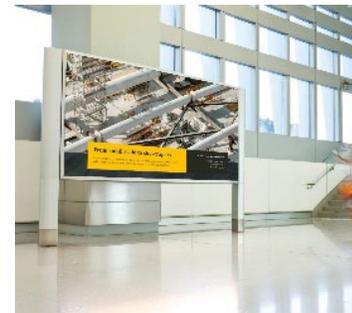
The Trend

Increased demand for dynamic and engaging content with a higher volume of displays in more places, driving up overall demand for video content

Expansion of video into more spaces throughout campuses/buildings, a trend accelerated by hybrid work

Lower occupant density driving collaborators and meeting participants to multiple locations, even when in the same location

Migration to networked video (AVoIP), utilization of existing network to distribute AV content



The Challenges

- **Scalability** – Ability to scale as needs evolve. Interoperability between various technologies. Fast deployment.
- **Control / Management** – Management of multiple signal formats and diverse resolution requirements across a multitude of spaces. Minimal complexity and little technology downtime
- **Affordability** - quality solutions that work within budget
- **Security** – Support of existing risk mitigation and compliance standards
- **Leverage existing infrastructure** – Immersive audio and video, while operating within the network requirements of existing infrastructure.



DM NVX® 10/20/200 AV-over-IP Encoders and Decoders

Crestron® Network Video Solutions are designed for simple point-to-point display and global distribution using your existing network infrastructure and security protocols.



1080p60 4:4:4
Network AV Encoder
([DM-NVX-E10](#))

DM NVX® 10/20/200 AV-over-IP Encoders and Decoders

New DM NVX® interoperable, point-to-point encoders and decoders are designed to provide:

- **Scalable:** Add, change, update as needs evolve
- **Control / Management:** Easy to manage and maintain remotely
- **Affordable:** Cost-optimized solutions that work within your budget
- **Security:** Enterprise Grade Security Support
- **Leverages existing infrastructure:** Quality audio and visual on existing network requirements

Encoders



1080p60 4:4:4 Network AV Encoder ([DM-NVX-E10](#))



4K60 4:2:0 Network AV Encoder ([DM-NVX-E20](#))

Decoders



1080p60 4:4:4 Network AV Decoder ([DM-NVX-D10](#))



4K60 4:2:0 Network AV Decoder ([DM-NVX-D20](#))

Decoder with Scaler



4K60 4:2:0 Network AV Decoder with Scaler ([DM-NVX-D200](#))

At a Glance

Networked Video Solutions (AVoIP)

Online videos slated to make up

More than 82%

of all consumer internet traffic

*By 2022...15 times higher than 2017.***

+44% **Collaboration Tools**

Increase in usage since 2019

*Est. 79% using digital workplace technology****

75% of meetings

Estimated to be conducted by video

*By the year 2024 (up from 40% in 2019)**

Trend	Challenge	With DM NVX® 10/20/200
Increased demand for hybrid meeting space	Integrating an in-room video conferencing and in-person meeting space.	Low latency video, lossless audio. Delivers real-time, full-motion video performance, designed to support the needs of hybrid collaboration.
Increase need/volume of collaboration tools / devices	Technology that is expandable	Easy to scale with full interoperability. Add, change or move end points easily with no limit on number of end points (inputs / outputs). Interoperable with Crestron ecosystem and any signal format / device. Quick setup of endpoints via web.
Increased number of end points and spaces	Management of all end points to ensure uptime and maintain productivity.	Remotely view, monitor, access, and control technology saving time. No need to physically enter room / handle device. Proactive alerts bring attention to issues so they can be resolved ahead of time, reducing negative impacts on space productivity.
Highly engaged in-room collaboration	Affordable, connected spaces that also deliver quality audio and video content for all users	Variety of high-quality solutions available at an affordable price point. Innovative, value-added, DM NVX® firmware updates go beyond bug fixes to enhance system power, add additional features, further lowering, overall cost of ownership and extending product lifecycles.
Higher standards for risk mitigation and compliance policy	Implementation of user-friendly technology that supports these standards.	Supports enterprise grade security protocols encryption, device and user access associated with risk and compliance standards.
Increase usage of video	Increase in bandwidth consumption	Utilizes existing network architecture. Quality signal distribution on both 1gb and 10Gb networks.

Scalability and Flexibility

Design robust, comprehensive in-room experiences, with complete interoperability and performance

Seamless integration with:

- Any signal format and device (displays, cameras, mics)
- Crestron ecosystem (Crestron FLEX, Control), and other complimentary products

Expand, change or move system as needs evolve:

- Add new endpoints seamlessly
- Variety of options to choose from to expand your system, works alongside other DM NVX® x3x solutions. Easy to deploy.
- Convenient web-based setup of endpoints, readies space for use, faster



Scalability
and
Flexibility

Manage
and
Control

Affordable

Security

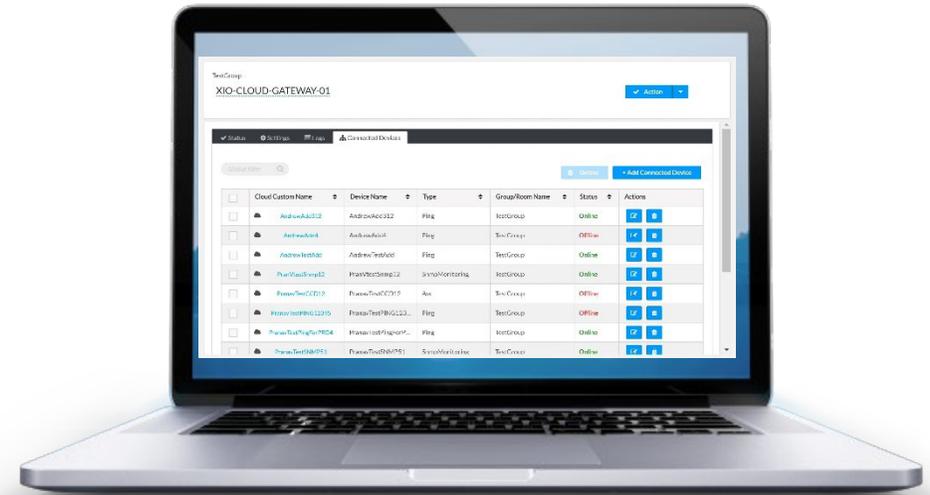
Leverages
existing
network

Manage and Control

Save time by streamlining the IT management of an increased number of end points and technologies across your broader organizations.

DM NVX® 10/20/200 solutions are backed by the powerful DigitalMedia™ platform:

- Simple web-based tools for remote configuration, management, routing, monitoring, and troubleshooting
- Allows the management of multiple devices, across multiple spaces and signal formats, with diverse resolution requirements
- Receive issue alerts, then proactively take control of the technology remotely to resolve issues
- Push / schedule firmware updates, remotely



Scalability
and
Flexibility

Manage
and
Control

Affordable

Security

Leverages
existing
network

Affordability

Choose an encoder / decoder with ideal specs for the source resolution and your budget:

- Not every source is 4K/60 4:4:4 (cable boxes, digital signage devices, etc).
- DM NVX offers best quality for meeting spaces, classrooms and other applications with specified resolutions of 1080p – 4K60 4:2:0
- Delivers the best hardware for your application and budget, with the best performance at every price point.

Value-added, product-enriching remote firmware updates :

- Enhances system power, adds additional features, delivers enhanced end user experience
- Lowers, overall cost of ownership and extends product lifecycles
- Requires less power and network requirements, leveraging standard PoE, versus PoE+ or PoE++, resulting in greater cost-savings



Scalability
and
Flexibility

Manage
and
Control

Affordable

Security

Leverages
existing
network

Security

Adhere to stringent IT security policies:

- Supports enterprise-grade security protocols
- Highly secure and supports your existing risk mitigation and compliance standards
- Addresses content encryption, device access, and user access to reinforce organizational risk mitigation and compliance policies
- Stay at the forefront of security by remotely pushing updates as they are released



Scalability
and
Flexibility

Manage
and
Control

Affordable

Secure

Leverages
existing
network

Leverages existing infrastructure

Utilizes existing infrastructure within existing network requirements

- Designed for both 1Gb and 10Gb networks

Maintains the highest level of audio and video to provide the best overall participant and user experience:

- Delivers real-time, smooth, full-motion, video performance
- Lossless, surround sound
- Crisp audio with no lag time or delays
- Independent audio routing



Scalability
and
Flexibility

Manage
and
Control

Affordable

Security

Leverages
existing
network

Support a Wide Range of Applications

Delivers real-time, full-motion 4K60 video performance, ideal for:

- Presentation of multimedia
- Video conferencing
- Live camera images / video

Engineered for stability, reliability, and the audio and visual demands of:

- Classrooms / education (Higher Ed & K-12)
- Small conferencing & collaboration Spaces
- Hybrid spaces (video conferencing)
- Digital Signage: perfect synchronization of content across multiple displays (Line-synchronized outputs)
- High-demand applications: command-and-control centers, simulation centers, esports, and courtrooms



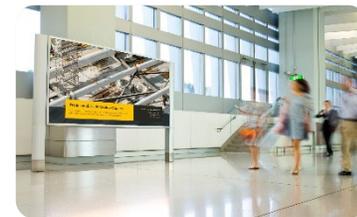
Hybrid / Video Conferencing



Small Conference / Collaboration Spaces



High-Demand Applications



Digital Signage



Classrooms / Education (K-12, Higher Ed)



esports



Technical Overview: DM NVX 10/20/200



Highest video integrity, regardless of output

- Delivers real-time, full-motion video performance
- Scaling option available ([DM-NVX-D200](#))
- Video has virtually no latency, supported by high refresh rates and lossless compression
- Solutions to support 1920x1080p, 4K30 4:4:4, and 4K60 4:2:0



Audio Clarity

- Lossless transfer of surround sound audio signals
- Stereo 2-Channel
- Digital HDMI®, AES67 • 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™ • LPCM up to 8 channels



Installs and Connects with Ease

- Simple web-based setup via web browser
- Designed to meet the evolving needs of your space
- Easy, low-voltage installation. Powered via PoE (optional power pack also available). No need for fiber or added electrical runs.
- Mounts conveniently, small footprint: fits behind flat-panel displays, above ceiling-mounted projectors, in AV cart / cabinet



Network

- Networked AV (AVoIP), utilizes existing network and security protocols; supports interoperability between devices

Choose Your Solution

Select the performance, features, and budget that best suits your application

These five new DM NVX® encoders and decoders round out the broader DM NVX® offering and have been engineered for the highest level of quality, and highest level of integrity



1080p60 4:4:4 Network AV Encoder ([DM-NVX-E10](#))



1080p60 4:4:4 Network AV Decoder ([DM-NVX-D10](#))



4K60 4:2:0 Network AV Encoder ([DM-NVX-E20](#))



4K60 4:2:0 Network AV Decoder ([DM-NVX-D20](#))



4K60 4:2:0 Network AV Decoder with Scaler ([DM-NVX-D200](#))

Need to support higher resolutions?

For additional offerings and capabilities, including 4K60 4:4:4, view the balance of the [DM NVX® family of products here](#) or compare additional solutions on the [comparison chart here](#).

	DM-NVX-E20	DM-NVX-E10	DM-NVX-D20	DM-NVX-D200	DM-NVX-D10
	Encoder			Decoder	

Video

Pixel Perfect Processing					
4K60 4:4:4					
4K60 4:2:0	✓		✓	✓	
4K30 4:4:4	✓		✓	✓	
1920x1080p	✓	✓	✓	✓	✓
Scaler				✓	
HDR HDR10+ Dolby Vision® standard					

Audio

Stereo 2-Channel	✓	✓	✓	✓	✓
Digital HDMI®	✓	✓	✓	✓	✓
DSP Downmix					
Dante					
Audio Standards	AES67 • 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™ • LPCM up to 8 channels				

Connectivity

	DM-NVX-E20	DM-NVX-E10	DM-NVX-D20	DM-NVX-D200	DM-NVX-D10
HDMI	HDMI Input	1	1		
	HDMI Output			1	1
Power Supply	PoE	PoE	PoE	PoE	PoE

Security & Support

	802.1x / AES-128 / Active Directory® / TLS / HTTPS / SSH / SSL / SFTP				
Supports Enterprise-Grade Security	✓	✓	✓	✓	✓
Resolution Support (Crestron True Blue Support)	✓	✓	✓	✓	✓
XiO Cloud® & Native Configuration on Tools	✓	✓	✓	✓	✓

The Crestron Ecosystem

Interoperable DM NVX® encoders and decoders work seamlessly within the Crestron Ecosystem to elevate your meeting audio and video experience:

- Crestron Flex: BYOD Wireless Conferencing
- AirMedia®-Wireless presentation and collaboration system
- Crestron Flex Video Soundbar
- Speakers



Crestron Flex



AirMedia®



Crestron Flex Video
Soundbar

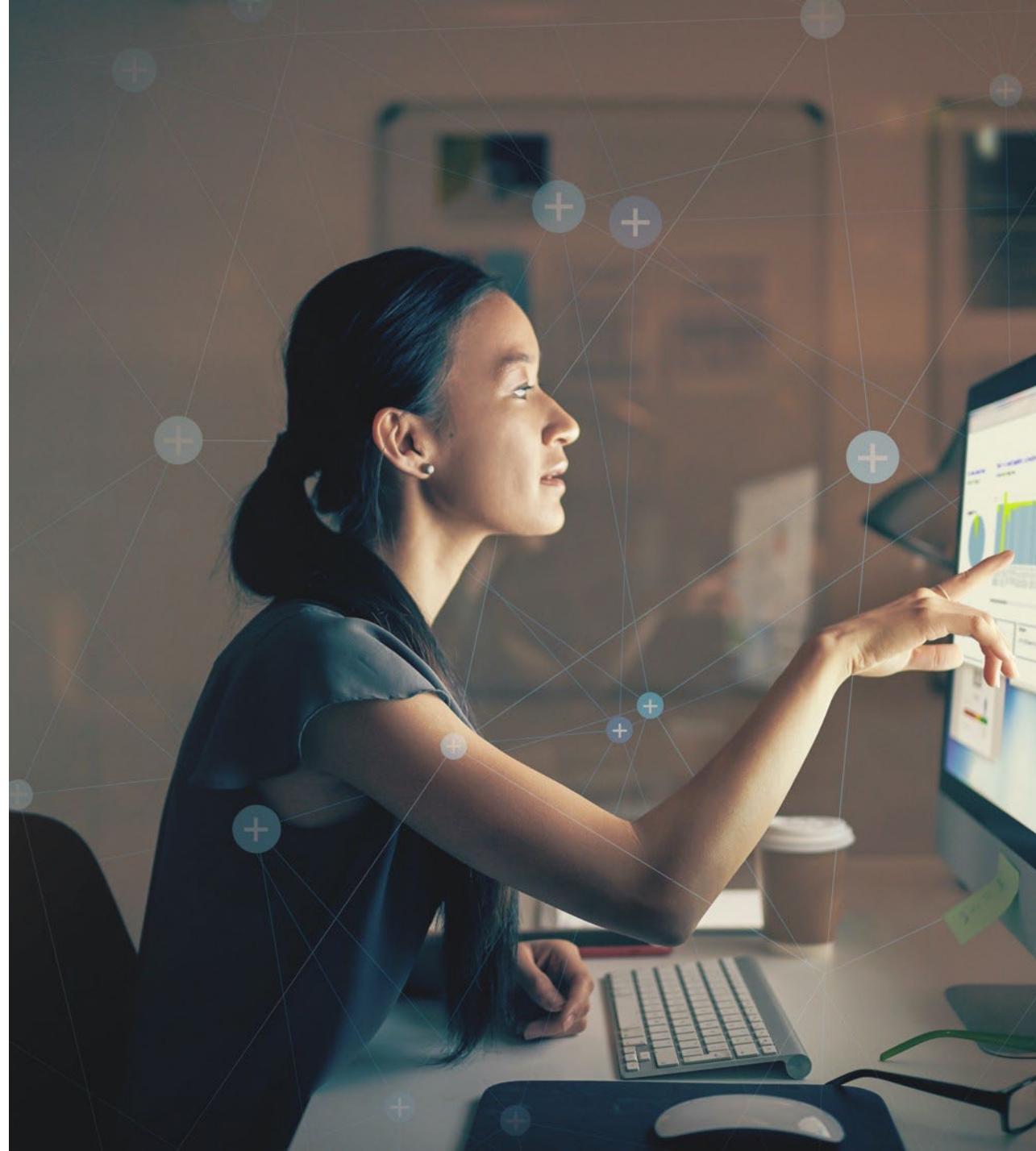


Speakers

Ready to Learn More?

Contact your Crestron representative to get started:

- *Representative Name*
- *Phone Number*
- *Email*



Thank you

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