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.
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
## 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.**

### Increase in usage since 2019

**+44%**

**Collaboration Tools**

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

### 75% of meetings

**Estimated to be conducted by video**

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

<table>
<thead>
<tr>
<th>Trend</th>
<th>Challenge</th>
<th>With DM NVX® 10/20/200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increased demand for hybrid meeting space</td>
<td>Integrating an in-room video conferencing and in-person meeting space.</td>
<td>Low latency video, lossless audio. Delivers real-time, full-motion video performance, designed to support the needs of hybrid collaboration.</td>
</tr>
<tr>
<td>Increase need/volume of collaboration tools / devices</td>
<td>Technology that is expandable</td>
<td>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.</td>
</tr>
<tr>
<td>Increased number of end points and spaces</td>
<td>Management of all end points to ensure uptime and maintain productivity.</td>
<td>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.</td>
</tr>
<tr>
<td>Highly engaged in-room collaboration</td>
<td>Affordable, connected spaces that also deliver quality audio and video content for all users</td>
<td>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.</td>
</tr>
<tr>
<td>Higher standards for risk mitigation and compliance policy</td>
<td>Implementation of user-friendly technology that supports these standards.</td>
<td>Supports enterprise grade security protocols encryption, device and user access associated with risk and compliance standards.</td>
</tr>
<tr>
<td>Increase usage of video</td>
<td>Increase in bandwidth consumption</td>
<td>Utilizes existing network architecture. Quality signal distribution on both 1gb and 10Gb networks.</td>
</tr>
</tbody>
</table>

---

*Data provided by [TechRepublic](https://www.techrepublic.com), original source [Gartner](https://www.gartner.com).*  
**Per [Forbes magazine, State of Online Video](https://www.forbes.com).**  
**Data provided by Gartner**
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
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
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
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
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
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

One Solution: DM NVX® Encoders and Decoders (DM NVX® 10/20/200)
Technical Overview: DM NVX 10/20/200

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

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

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

One Solution: DM NVX® Encoders and Decoders (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
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.

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.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Encoder</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Decoder</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Video</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pixel Perfect Processing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4K60 4:4:4</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4K60 4:2:0</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4K30 4:4:4</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>1920x1080p</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Scaler</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDR</td>
<td>HDR10+</td>
<td>Dolby Vision® standard</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stereo 2-Channel</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Digital HDMI®</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>DSP Downmix</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dante</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio Standards</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AES67 • Dolby Digital® • 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</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Connectivity</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDMI Input</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDMI Output</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>PoE</td>
<td>PoE</td>
<td>PoE</td>
<td>PoE</td>
<td>PoE</td>
</tr>
<tr>
<td>Security &amp; Support</td>
<td>802.1x / AES-128 / Active Directory™ / TLS / HTTPS / SSH / SSL / SFTP</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supports Enterprise-Grade Security</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Resolution Support (Crestron True Blue Support)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>XIo Cloud® &amp; Native Configuration on Tools</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
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
Ready to Learn More?

Contact your Crestron representative to get started:

- Representative Name
- Phone Number
- Email
Thank you

All brand names, product names, and trademarks are the property of their respective owners. Certain trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography. © 2022 Crestron Electronics, Inc.