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## DigitalMedia™ XiO Director – Virtual Switching Appliance for 160 Endpoints

- > Comprehensive network AV system configuration, management, and signal routing
- > Emulates a traditional hardware-based matrix switcher
- > Works with Crestron® DM® NVX encoders and decoders
- > Supports 160 endpoints and 20 domains
- > Enables grouping of endpoints in up to 20 independent subsystems
- > Fully scalable for any sized network
- > Intuitive web-based graphical user interface
- > Ethernet control system interface
- > Fully-programmable control of virtual matrices and physical endpoints
- > Automatic endpoint device discovery
- > Custom naming and search tools
- > Easy diagnostics and signal status display
- > XML device map file import/export
- > Built-in logging
- > Four Gigabit Ethernet LAN ports
- > Single-space 19" rack-mountable
- > Universal 100-240V internal power supply



*Note: The DM-XIO-DIR-160 supports a maximum of 20 domains. For larger systems, use multiple units or use model [DM-XIO-DIR-ENT](#), which supports 240 domains and includes additional “enterprise” features. Refer to the [DM-XIO-DIR-ENT spec sheet](#) for more information.*

### Easy Web-based Setup and Control

The XiO Director provides an intuitive web-based user interface to facilitate system configuration, signal routing, and comprehensive diagnostics of the complete AV network. Each domain and endpoint, as well as the inputs and outputs on each endpoint, can be designated with a user-friendly name. Navigating the entire system is easy using the search box<sup>[1]</sup> to quickly find domains, endpoints, inputs, and outputs by name or address. A system overview screen is also provided, showing the video and audio signal status for every input and output in a graphical layout that’s easy to view and navigate.

The DM® XiO Director, model DM-XIO-DIR-160, is an enterprise-grade network appliance that facilitates configuration, control, and management of a large-scale AV network. Using [DM NVX](#) encoder/decoders, Crestron® offers the industry’s most versatile and scalable solution for distributing 4K60 4:4:4 HDR video over an IP network. The XiO Director provides a means for managing large networks of DM NVX devices, routing AV signals, and simplifying integration with one or more Crestron control systems.

### Virtual DM® Switcher

The XiO Director virtually emulates the functionality of a traditional hardware-based DigitalMedia™ matrix switcher, routing high-quality 4K streaming AV signals throughout a room, building, or campus. The DM-XIO-DIR-160 model supports a total of 160 endpoint devices consisting of DM NVX encoders and decoders. Multiple XiO Director units can be deployed, with the ability to route signals between units just like hardware switchers<sup>[1]</sup>, easily handling even the largest corporate enterprise, university, governmental, military, medical, transportation, sports, entertainment, hospitality, gaming, or retail application.

### Simple, Flexible Configuration

System configuration could not be simpler. The XiO Director automatically discovers each DM NVX endpoint on the network, and allows each endpoint to be assigned as a logical input or output within a “domain.” A domain is a logical grouping of endpoints that operate together as a single switching entity, allowing individual rooms and other subsystems to be arranged and controlled independently. It’s like having multiple independent matrix switchers in a single rack space. The XiO Director effectively eliminates the need for physical switchers in every room, replacing them with the virtual equivalent running on the AV network.

## SPECIFICATIONS

### Device Support

**Endpoints:** Supports 160 DM NVX devices, each configured as an encoder or decoder

**Domains:** Supports 20 domains (allows grouping of endpoints in up to 20 individual subsystems)

### Communications

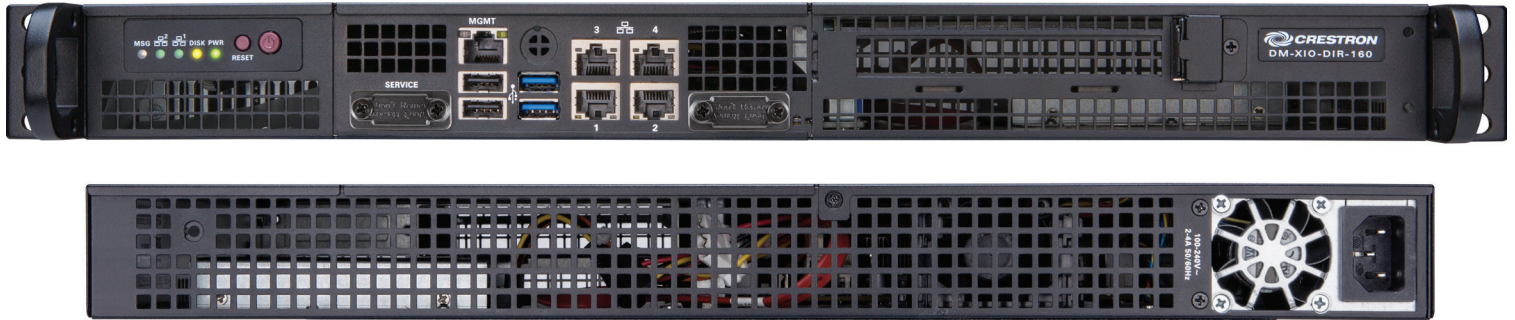
**Ethernet:** 10/100/1000 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, IPv4 or IPv6, HTTPS web browser setup and control, Crestron control system integration

**DM NVX (via Ethernet):** HDCP 2.2, AES audio/video content encryption, RTP, RTSP, SDP, ONVIF, IGMPv2, IGMPv3, SMPTE 2022, FEC (Forward Error Correction)

### Connectors

**MGMT (front):** (1) 8-pin RJ45 connector, shielded, female; 10Base-T/100Base-TX/1000Base-T Ethernet port for hardware management

# DM-XIO-DIR-160 DigitalMedia™ XiO Director



Front and Rear Panels

**USB 2.0 (front):** (2) USB Type A connectors, female, black;  
USB 2.0 host ports for factory use only

**USB 3.0 (front):** (2) USB Type A connectors, female, blue;  
USB 3.0 host ports for factory use only

**LAN 1 – 4 (front):** (4) 8-pin RJ45 connectors, shielded, female;  
10Base-T/100Base-TX/1000Base-T Ethernet ports for web browser,  
endpoint, and control traffic

**100-240V~ 2-4A 50/60Hz (rear):** (1) IEC 60320 C14 main power inlet;  
Mates with removable power cord, included

## Controls & Indicators

**MSG:** (1) Blue LED, identifies the device when “unit identification” is initiated

**LAN 1 – 2:** (2) Green LEDs, each indicates Ethernet activity on the corresponding LAN port

**DISK:** (1) Yellow LED, indicates SSD activity

**PWR:** (1) Green LED, indicates the unit is powered on

**RESET:** (1) Recessed pushbutton, initiates a hard reset

**Power Button:** (1) Pushbutton, initiates boot up or shutdown

**MGMT:** (1) Amber LED & (1) bi-color green/orange LED; indicates Ethernet activity, speed, and link status for the management LAN port

**LAN 1 – 4:** (1) Amber LED & (1) bi-color green/orange LED per each of (4) ports; each pair indicates Ethernet activity, speed, and link status for the corresponding LAN port

## Power

**Main Power:** 4 Amps @ 100-120 Volts AC, 50/60 Hz;  
2 Amps @ 220-240 Volts AC, 50/60 Hz

**Power Consumption:** 35 Watts at 100% CPU usage and fan speed

## Environmental

**Operating Temperature:** 50° to 95° F (10° to 35° C)

**Operating Humidity:** 8% to 90% RH (non-condensing)

**Non-Operating Temperature:** -40° to 158° F (-40° to 70° C)

**Non-Operating Humidity:** 5% to 95% RH (non-condensing)

**Heat Dissipation:** 119.4 BTU/hr

## Construction

**Chassis:** Metal, black finish; vented front, rear, and sides; variable speed fan cooled

**Mounting:** Freestanding or 1 RU 19-inch rack-mountable (rack ears included)

## Dimensions

**Height:** 1.72 in (44 mm)

**Width:** 17.21 in (437 mm) without rack ears;

19.00 in (483 mm) with rack ears

**Depth:** 10.49 in (267 mm) without rack ears

## Compliance

IC, CE, FCC Part 15 Class B digital device

## MODELS & ACCESSORIES

### Available Models

**DM-XIO-DIR-160:** DigitalMedia™ XiO Director – Virtual Switching Appliance for 160 Endpoints

### Available Accessories

**DM-NVX Series:** DigitalMedia™ 4K60 4:4:4 HDR Network AV Encoder/Decoders

**DM-RPP-K24:** DigitalMedia™ 24-Port Keystone Patch Panel

**DM-CONN-ULTRA-RECP:** DigitalMedia™ Ultra Keystone RJ45 Jack

**DM-CBL-ULTRA-PC:** DigitalMedia™ Ultra Patch Cables

# DM-XIO-DIR-160 DigitalMedia™ XiO Director

## Notes:

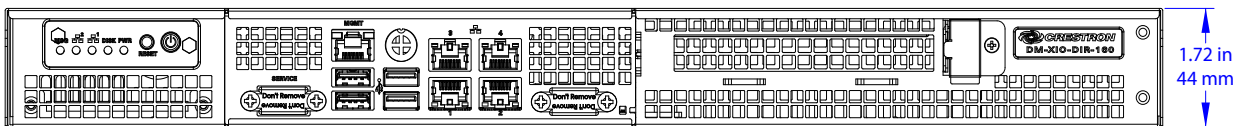
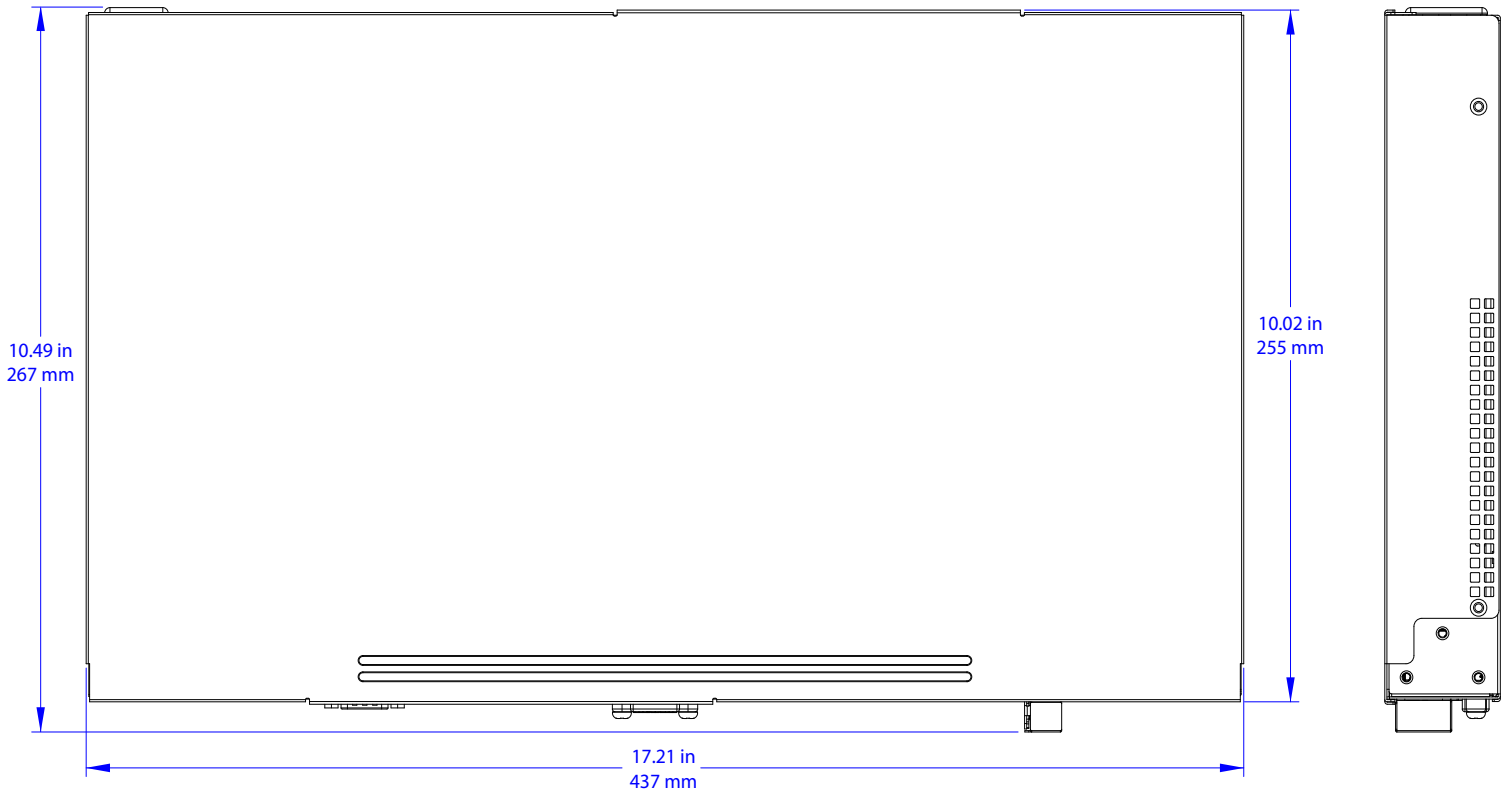
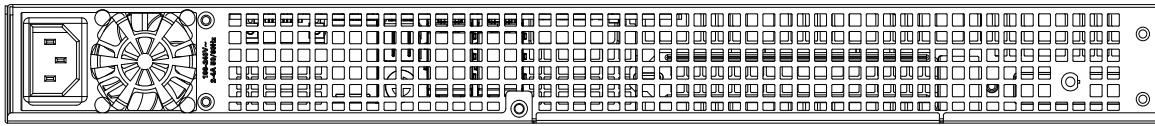
1. Search box navigation and the ability to route signals between units are future features that will be enabled via firmware update.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at <https://www.crestron.com/How-To-Buy/Find-a-Representative> or by calling 855-263-8754.

The specific patents that cover this and other Crestron products are listed online at <https://www.crestron.com/legal/patents>.

Certain Crestron products contain open source software. For specific information, visit <https://www.crestron.com/opensource>.

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