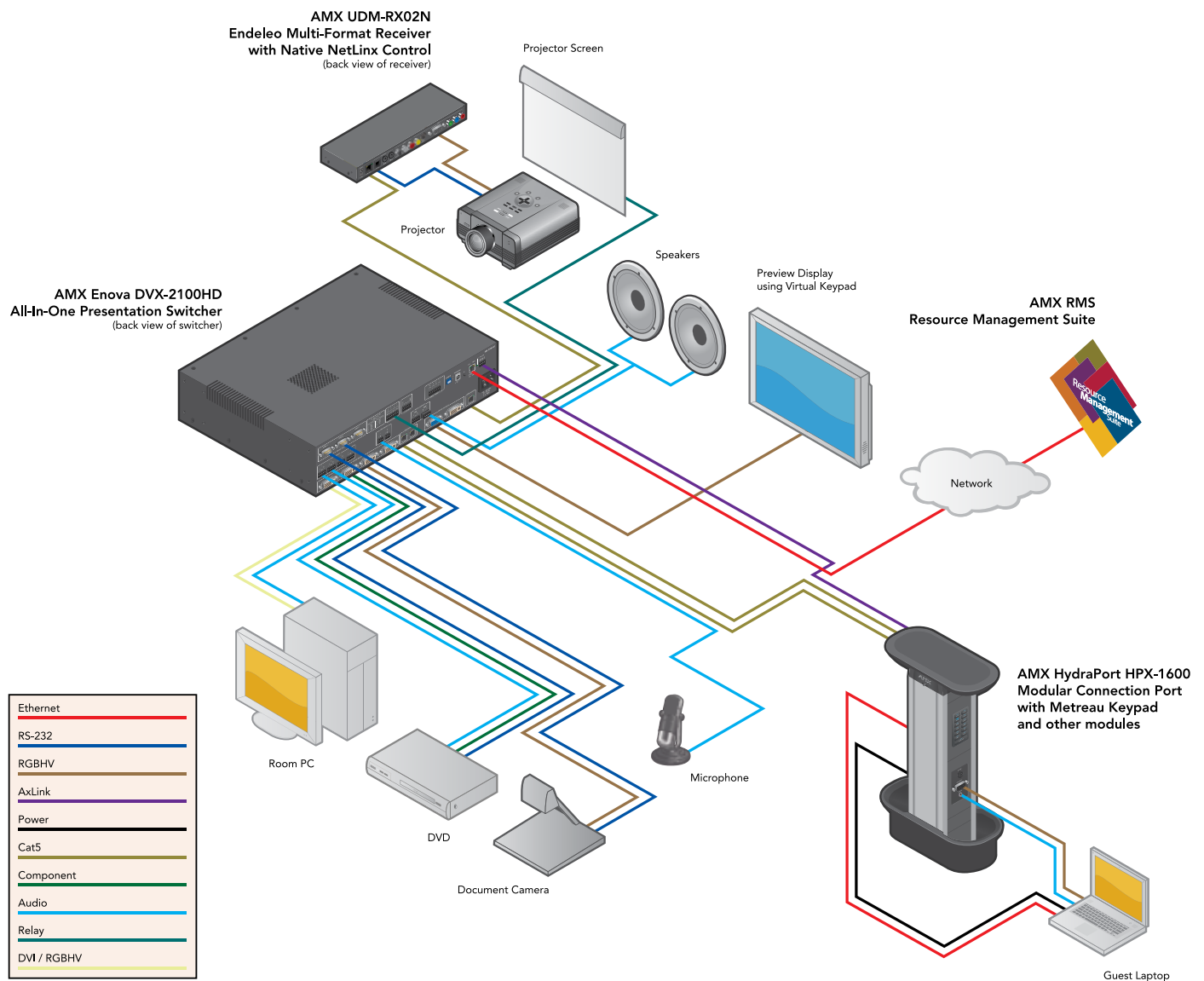# ALL-IN-ONE PRESENTATION SWITCHERS

TALK ABOUT ENOVATION

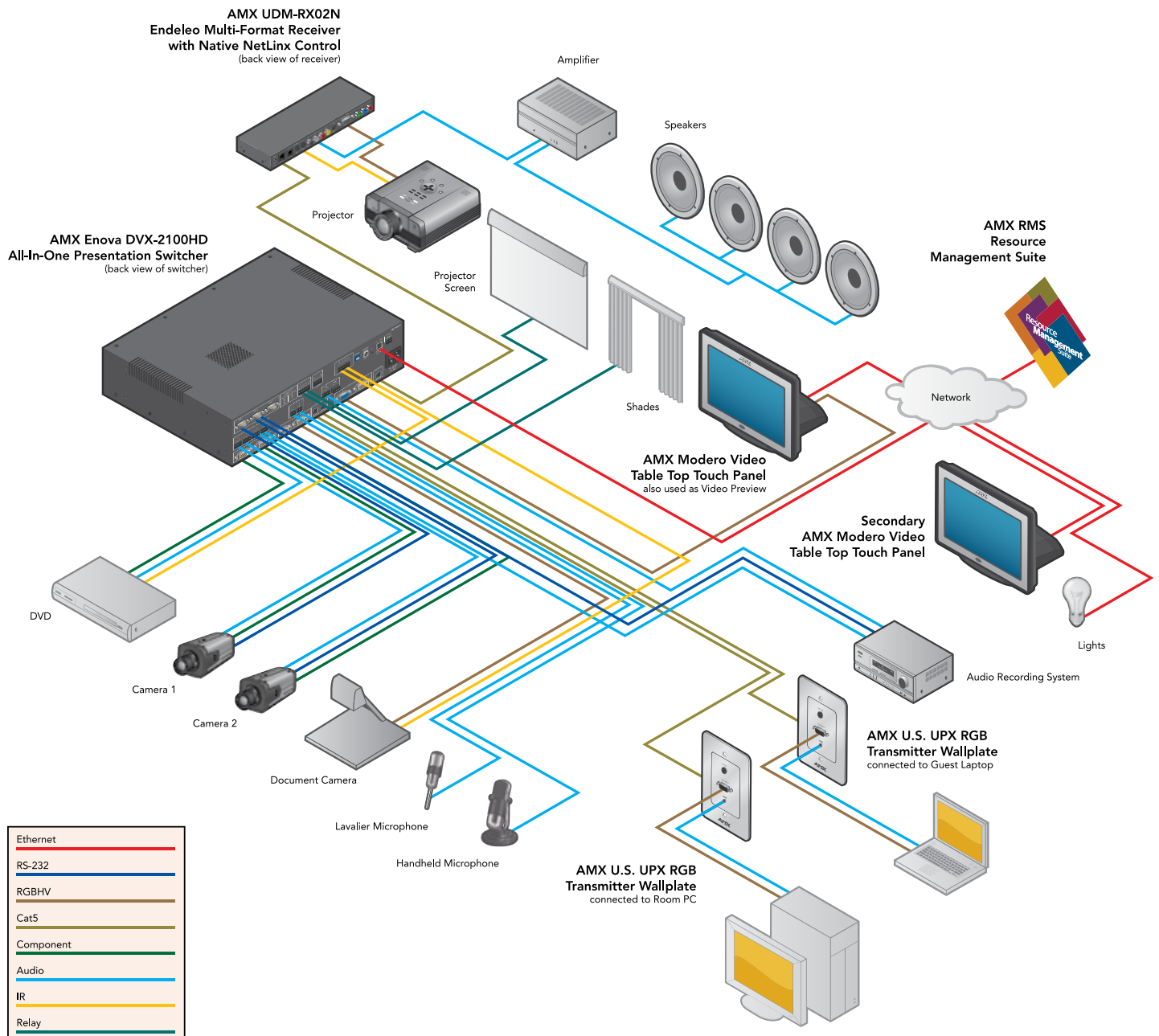A Single Solution that Ensures Everything is Controlled – Everything is Covered

All-In-One Presentation Switchers combine all of the components needed to control/automate any environment into a simple, flexible, comprehensive solution including control, multi-format inputs, video switching, scaling and converting, local and remote distribution, plus audio mixing, and amplification - all in a single box. By combining disparate technologies into a single enclosure, the end users pays a fraction of the cost associated with buying separate hardware to accomplish the same solution.

SYSTEM DIAGRAM

**AMX UDM-RX02N
Endeleo Multi-Format Receiver
with Native NetLinx Control**
(back view of receiver)

Projector Screen

Projector

Speakers

Preview Display
using Virtual Keypad

**AMX RMS
Resource Management Suite**

**AMX Enova DVX-2100HD
All-In-One Presentation Switcher**
(back view of switcher)

Network

**AMX HydraPort HPX-1600
Modular Connection Port
with Metreau Keypad
and other modules**

Ethernet
RS-232
RGBHV
AxLink
Power
Cat5
Component
Audio
Relay
DVI / RGBHV

Room PC

DVD

Document Camera

Microphone

Guest Laptop

Spotlight on Enova
Visit the Enova Spotlight Site at www.amx.com/enova to learn more about this innovative philosophy on how you think about technology.

AMX UDM-RX02N
Endeleo Multi-Format Receiver
with Native NetLinx Control
(back view of receiver)

Amplifier

Speakers

AMX Enova DVX-2100HD
All-In-One Presentation Switcher
(back view of switcher)

Projector

Projector
Screen

AMX RMS
Resource
Management Suite

Shades

Network

AMX Modero Video
Table Top Touch Panel
also used as Video Preview

Secondary
AMX Modero Video
Table Top Touch Panel

DVD

Lights

Camera 1

Audio Recording System

Camera 2

AMX U.S. UPX RGB
Transmitter Wallplate
connected to Guest Laptop

Document Camera

Lavalier Microphone

Handheld Microphone

AMX U.S. UPX RGB
Transmitter Wallplate
connected to Room PC

Ethernet
RS-232
RGBHV
Cat5
Component
Audio
IR
Relay

6 | 8 | 8 | 8
Serial • Relay • IR • Digital I/O

DVX-3150HD
All-In-One Presentation Switcher

10x4 Switcher, 2x25 W Amp   FG1905-15

OVERVIEW

The Enova DVX-3150HD is an all-in-one controller, AV matrix switcher, scaler, analog to digital signal converter, twisted pair transmitter and amplifier with built-in professional grade audio processing. Easily integrate HDCP into system designs and enjoy hassle free plug-and-play operation. No tools, no delays, and no key constraints – it just works with AMX's exclusive InstaGate Pro™ Technology. Designed to simplify system design and provide a future proof solution, the DVX-3150HD's multi-format video inputs support analog and digital signals including HDMI with HDCP sources - all in the same connector. The state-of-the-art professional grade audio DSP delivers quality audio throughout a room. Built-in SmartScale® Technology outputs video that is perfectly scaled for each connected display, eliminating the integration challenges that can occur when sources and displays have different optimal resolutions - making the DVX-3150HD easy to specify, easy to install and easy to use.

COMMON APPLICATIONS

Ideal All-In-One Presentation Switcher designed to dramatically simplify AV control and distribution in medium and large conference rooms, classrooms and auditoriums. The flexible DVX-3150HD is perfect for any room with a mix of analog and digital sources, multiple displays, or rooms that require support for video conferencing.

FEATURES

- **All-In-One Presentation Switcher in a 3RU Box** – Controller, matrix switcher, scaler, analog to digital converter, amplifier, plus twisted pair distribution and professional-grade audio DSP
- **HDMI/HDCP Switching with Simplicity of Analog** – End-to-end distribution of HDMI/HDCP without interruption or key constraints using InstaGate Pro Technology
- **Matrix Switching** – Freely route any input to any or all outputs without blocking - 10x4 video switcher and 14x4 audio switcher with audio breakaway

- **SmartScale Technology** – Automatically responds to the display's declared EDID information and scales the video to the best resolution and video parameters for that display without manual setup; this prevents inferior video quality when sources are forced to lower resolutions to support the least capable display in the system
- **AV and Control Over Twisted Pair** – Send audio, video, bi-directional control and Ethernet up to 100m over one standard twisted pair cable
- **Analog to Digital Video Conversion With Scaled Outputs** – Converts any source signal to digital and uses SmartScale Technology to automatically output video that is perfectly scaled for each connected display
- **Game Changing Device** – Standardizing on this box reduces Total Cost of Ownership
- **All-In-One Presentation Switcher** – Replaces the need for numerous individual components and equipment, allowing installers to save time and effort in configuring and programming
- **InstaGate Pro Technology** – Easily integrate HDCP into system designs and enjoy hassle-free matrix switching to all compliant displays; no tools, no delays, and no key constraints – it just works
- **Multi-Format Ports** – Built for analog signals - RGBHV, Component, S-Video, and Composite, and digital HDMI/HDCP and DVI signals - all on the same connector
- **Built-in Professional Grade Audio DSP** – Integrated digital signal processor's advanced capabilities, like independent 10-band parametric EQ, independent input gain adjustments and variable compression, allow precision tuning to match unique source and room attributes
- **3D Support** – Pass through latest video formats including 3D and Deep Color
- **Surround Sound Support** – Pass through high definition surround sound including DTS-HD and Dolby TrueHD

- **DXLink Twisted Pair Outputs** – Send audio, video and control to remote destinations up to 100m away over one twisted pair cable
- **Audio Breakaway** – Stereo audio from any analog input or de-embedded from any HDMI input can be broken away from its associated video, processed through the DSP, and switched independently to any analog, HDMI or S/PDIF audio output
- **Audio Matrix Switching** – Four independently switched and processed audio paths provide four unique volume, EQ, ducking and mixing configurations for perfectly tuned room audio as well as integration with audio/video conferencing, induction loop systems, voice re-enforcement speakers and audio recording devices
- **Enhanced Microphone Processing** – Independent 3-band parametric EQ, comopression, gating, auto-ducking, and limiting on each microphone input ensures crystal clear communication
- **HDCP Compliant**

DEALER BENEFITS

- **HDCP Made Easy as Analog** – No more time-consuming, cumbersome work-around tools to address HDCP key caching and resolution incompatibilities
- **Fully Integrated Solution** – All-in-one design simplifies system design, reduces programming time, and saves time and effort in installation
- **Professional Grade Audio** – Simplifies installation with built-in DSP, eliminating the need for an external audio processor

CUSTOMER BENEFITS

- **Reduce Costs and Save Space** – Realize significant cost savings and space savings with the DVX-3150's all-in-one-design compared to purchasing individual components
- **Picture Perfect with No Delay** – Delivers clean, crisp digital video to any display immediately upon request
- **Designed with Flexibility For the Future** - Built for today's AV needs, but ready for tomorrow's future advanced needs including 3D video and surround sound

BULLSEYE TARGET PRODUCT
This is a Target Product as defined in the U.S. BullsEye Partnership Program. Participating AMX Dealers can be rewarded for purchasing Target Products as a % of their total annual net revenue.

WATCH THE VIDEO
See the new DVX-3150HD All-In-One Presentation Switcher live from InfoComm 2011 by watching our video profile on YouTube at www.youtube.com/user/AMXtalk#p/u/3/RJkSfHNwKlg

TRAINING AVAILABLE
For important installation, configuration and programming techniques, AMX University training is available. Just visit www.amx.com/training

DIGITAL SIGNAL PROCESSING
Enhance the beauty of sound in every room with AMX's DSP technology providing integrated 10-band EQ, volume, tone and balance on each output to easily support the acoustical attributes of each individual room / zone.

InstaGate Pro™ Technology
No tools, no delays and no key constraints. AMX's exclusive InstaGate Pro Technology allows traditionally key limited sources to be freely switched to any display without the typical HDCP delays.

SmartScale® Technology
Enjoy crystal clear perfect resolution on every display using AMX's exclusive SmartScale Technology which automatically outputs video that is perfectly scaled to each connected display.

SPECIFICATIONS

DIMENSIONS (HWD)
5.2" x 17" x 14" (13.2 cm x 43.2 cm x 35.6 cm)

WEIGHT
18.2 lb (8.26 Kg)

POWER
110-240V, 47/63 Hz AC supply

MEMORY
256 MB SDRAM
1 MB Non-volatile (NV) SRAM
256 MB FLASH

AMPLIFIER
2 x 25W into 8 Ohms Class D stereo amplifier

ENCLOSURE
Metal with black matte finish

INTEGRATED CONTROLLER
Equivalent of a NetLinx NI-3101-SIG Central Controller on-board

FRONT PANEL COMPONENTS
- LINK/ACT (green): Link/Activity LED blinks when receiving Ethernet data packets.
- STATUS (green): Status LED blinks to indicate that the system is programmed and communicating properly.
- INPUT (yellow): Input LED blinks to indicate that the Controller is receiving data.
- OUTPUT (red): Output LED blinks to indicate that the Controller is transmitting data.
- RS-232 / 422 / 485 (red/yellow): 6 sets of LEDs indicate that RS-232/422/485 Ports (1-6) are transmitting or receiving data.
- RELAYS (red): 8 LEDs indicate that one or more of the relay channels (1-8) are active (closed).
- IR/SERIAL (red): 8 LEDs indicate that one or more of the IR/Serial ports (1-8) are transmitting control data.
- I/O (yellow): 8 LEDs indicate that one or more of the I/O channels (1-8) are active.
- SWITCH pushbutton: Press to enter the SWITCH menu on the LCD display. Choose to switch audio, video or both from any input to any output. Press the TAKE pushbutton to implement the switch.
- TAKE pushbutton: While in the SWITCH menu, press to implement an audio/ video switch. When not in the SWITCH menu, press to cycle through audio and/ or video inputs.
- LCD display: Liquid crystal display (2 lines with 20 characters per line) indicates current volume level and displays the Video, Audio, and Tools menus.
- VIDEO MENU pushbutton: Press to access the Video menu on the LCD display. Multiple presses cycle through the various VIDEO menus.
- AUDIO MENU pushbutton: Press to access the Audio menu on the LCD display. Multiple presses cycle through the various AUDIO menus.
- Navigational pushbuttons: 4 directional buttons for navigating the options in the Video and Audio menu (on the LCD display).
- STATUS pushbutton: Press to access the STATUS menu on the LCD display.
- EXIT pushbutton: Press to exit any menu.
- VIDEO MUTE pushbutton: Press to mute/un-mute (enable/disable) all video output displays. Video Mute results in a blank screen on the output display.
- AUDIO MUTE pushbutton: Press to mute/un-mute all audio outputs.

REAR PANEL COMPONENTS
- RS-232/422/485 (Ports 1-6) provide serial control via DB9 (male) connectors:
- XON/XOFF (transmit on/transmit off)
- CTS/RTS (clear to send/ready to send)
- 300-115,200 baud
- RELAYS (Port 8) provides relay control via two 8-pin 3.5 mm captive-wire connectors:
- 8-channel single-pole single-throw relay ports
- Each relay is independently controlled
- Supports up to 8 independent external relay devices
- Channel range = 1-8
- Each relay can switch up to 24 VDC or 28 VAC @ 1 A
- Two 8-pin 3.5 mm mini-Phoenix (female) connectors provide relay termination
- IR/SERIAL (Ports 9-16) provide IR/Serial control via 2-pin 3.5 mm captive-wire connectors:
- Supports high-frequency carriers of up to 1.142 MHz
- 8 IR/Serial data signals can be generated simultaneously
- I/O (Port 17) provides 8-channel binary I/O port for contact closure with each input being capable of voltage sensing.
- AUDIO INPUTS:
- UNBALANCED AUDIO LINE INPUTS 4 1/8th-inch mini-jack connectors receive up to four unbalanced line-level audio inputs
  - Nominal input level: -10 dBV (0.3162 Vrms)
  - Maximum input level: 2 Vrms
  - Input impedance: >12k ohms unbalanced, >12k ohms balanced, DC coupled
- BALANCED AUDIO INPUTS 4 3.5mm 5-pin captive-wire connectors receive up to four balanced/unbalanced line level audio inputs
  - Nominal input level: +4 dBu (1.228 Vrms) balanced or -10 dBV (0.3162 Vrms) unbalanced
  - Maximum input level: 2 Vrms
  - Input impedance: >12k ohms unbalanced, >12k ohms balanced, DC coupled
- DIGITAL AUDIO INPUTS: supported on all HDMI inputs
- MIC INPUTS: 2 3.5mm 3-pin captive-wire connectors receive up to 2 mono microphones (balanced or unbalanced audio and switchable Phantom Power).
- AUDIO OUTPUTS:
- ANALOG AUDIO OUTPUTS:
  - AMP: 14-position captive wire connector provides amplified audio output with volume control
  - LINE: 3 3.5mm 5-pin captive-wire connector provides for fixed or variable, balanced or unbalanced, mono or stereo line level audio output
- DIGITAL AUDIO OUTPUTS:
- S/PDIF: 1 Coaxial RCA connector provides digital S/PDIF audio output that can mirror any of the 4 analog audio outputs.
- HDMI: Digital versions of any analog audio output or direct pass-through audio are provided on each HDMI output
- DXLink: Mirrors associated HDMI audio output
- VIDEO INPUTS
- 4 MULTI-FORMAT VIDEO INPUTS (1-4): 4 DVI-I input connectors provide multi-format video inputs for up to four video sources. Each VIDEO INPUT connector supports HDMI/HDCP, DVI, RGBHV, S-Video, composite, or component video input.
- 6 HDMI INPUTS (5-10): 6 HDMI input connectors provide support for HDMI/ HDCP or DVI video sources

• VIDEO OUTPUTS
- 4 HDMI OUTPUTS (1-4): 4 HDMI output connectors provide both digital video and audio. Supports HDCP
- 2 DXLINK OUTPUTS (1, 3): 2 DXLink CAT5 outputs mirror HDMI outputs 1 and 3. They provide digital video, audio, Ethernet and bi-directional control over Category Cable to DXLink Receivers. Supports HDCP.
• CONFIG DIP Switch: 8-position Master configuration DIP switch allows setting the Serial Programming port baud rate and onboard Master execution mode (PRD or normal)
• PROGRAM Port: DB-9 connector that supports RS-232 communications to a PC for system configuration and diagnostics
• ID Pushbutton: Black ID pushbutton sets the NetLinx Device ID assignments of the Internal Control Device. It has no effect on the Internal Switcher Device
• ETHERNET 10/100 Port: RJ-45 connector provides TCP/IP communication. This is an Auto MDI/MDI-X enabled port, which allows you to use either straight-through or crossover Ethernet cables. The Ethernet Port LEDs show communication activity, connection status, speeds, and mode information:
• SPD (speed) - Yellow LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps.
• L/A (link/activity) - Green LED lights On when the Ethernet cables are connected and terminated correctly, and blinks when receiving Ethernet data packets.
• AxLink Port: 1 3.5 mm captive-wire connector provides data and power to external control devices. The AxLink LED (green) indicates the state of the AxLink port.

POWER CONNECTOR IEC POWER CORD CONNECTOR:
• 100-240V AC
• 47-63Hz

ENVIRONMENTAL
• Operating Temperature: 0° C to 40° C (32° F to 104° F)
• Operating Humidity: 5% to 85% RH
• Storage Temperature: -10° C to 70° C (14° F to 158° F)

SUPPORTED VIDEO RESOLUTIONS
Up to 1920 x 1200 @ 60Hz. See Operations Reference Guide for details

CERTIFICATIONS
• RoHS
• FCC Class A
• CE

INCLUDED ACCESSORIES
• 2 CC-NIRC, IR Emitter w/3.5mm Phoenix (FG10-000-11)
• 2 Front Rack Mounting Brackets (62-1905-15)
• Enova DVX-3150HD-SP All-In-One Presentation Switcher Installation Guide (93-1950-15)

RECOMMENDED ACCESSORIES	DESCRIPTION	PART #	PAGE #
CC-DVI-5BNCM	DVI to 5 BNC Male Cable	(FG10-2170-08)	56
CC-DVI-RCA3M	DVI to 3 RCA Male Cable	(FG10-2170-09)	56
CC-DVIM-VGAF	DVI to HD-15 Female Adapter	(FG10-2170-13)	57
CC-DVI-SVID	DVI to S-Video Cable	(FG10-2170-10)	57
CC-3.5ST5-RCA2F	5-pin 3.5mm Phoenix to 2 RCA Female Cable	(FG10-003-20)	56
AVB-RX-DXLINK-HDMI	DXLink HDMI HDCP RX with Scaler	(FG1010-500)	38

DVX-2100HD

All-In-One Presentation Switchers

2 DVI-I Outputs, 2x25 W Amp   (FG1905-04)
2 DVI-I Outputs, 75W, 70V/100V Amp   (FG1905-05)

OVERVIEW

The DVX-2100HD Enova All-In-One Presentation Switchers combines all of the components you need to control/automate any environment into a simple, flexible, comprehensive solution including control, multi-format inputs, video switching, transcoding and scaling, local and remote distribution, plus audio mixing, and amplification - all in a single box. The new and improved DVX features two independent DVI-I Digital and Analog video outputs enabling digital video to be delivered to two separate displays.

COMMON APPLICATION

The DVX-2100HD is an ideal presentation solution when used to simplify AV control and distribution in sophisticated presentation environments and conference rooms, including those supporting audio and video conferencing. It also fits well in classrooms and auditoriums that need multiple displays, or video previewing.

FEATURES

- **SmartScale™ Up to Higher Resolutions** – The DVX can automatically communicate with newly connected display devices to determine native resolutions and can up convert any input signals beyond HD resolutions up to 1920x1200.
- **Commands Signal Management Flexibility** – Over 200 input signal combinations of DVI , RGB, Component, S-Video, and Composite. Don't worry about having too many of one signal style or not enough of another – just grab an adapter cable and go. Digital never looked so good.
- **Simplifies Setup & Saves Time and Money** – The DVX-2100HD is a total environment solution that eliminates the need for separate devices, thus reducing connectivity time, integration time, hardware installation time, and that all reduces your overall cost.
- **Maximizes Video Productivity** – Built-in transcoding and scaling automatically optimizes the management of all your video input and output challenges.

- **Provides Quality Audio Processing** – Built-in audio mixing and amplification that outputs two channels at 25 Watts each into 8-ohms or 75 Watts at 70V or 100V after passing through a mixer and an integrated 2-band equalizer to accommodate the size, furnishings, surfaces and functionality requirements in every room. There's also a stereo line level output with its own mixing and equalization settings.
- **Superior Integrated Control** – Includes the same quality and reliability you have come to demand with the equivalent of a NetLinx NI-2100 central controller. The DVX also includes a front control panel for an added level of convenience. The DVX comes complete with our standard RS-232, IR, digital I/O and relay control ports for control over environment and third-party equipment.
- **Simplifies Wiring and Installation** – Integrating all of this into a single box has obvious advantages over the connectivity challenges associated with wiring up as many as a dozen separate devices, not including source devices.
- **Offers Remote Connectivity via Twisted Pair** – Connect up to two remote AV sources over twisted pair cable up to 50 meters (150 feet) away using UDM transport technology also found in AMX Endeleo products. And take advantage of the HydraPort retractable cable connection port plus the UPX universal transmitter wallplates to get the job done with class.

BULLSEYE TARGET PRODUCT
This is a Target Product as defined in the U.S. BullsEye Partnership Program. Participating AMX Dealers can be rewarded for purchasing Target Products as a % of their total annual net revenue.

SmartScale® Technology
Enjoy crystal clear perfect resolution on every display using AMX's exclusive SmartScale Technology which automatically outputs video that is perfectly scaled to each connected display.

TRAINING AVAILABLE
For important installation, configuration and programming techniques, AMX University training is available. Just visit www.amx.com/training

D-TOOLS CERTIFIED PRODUCT
This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.
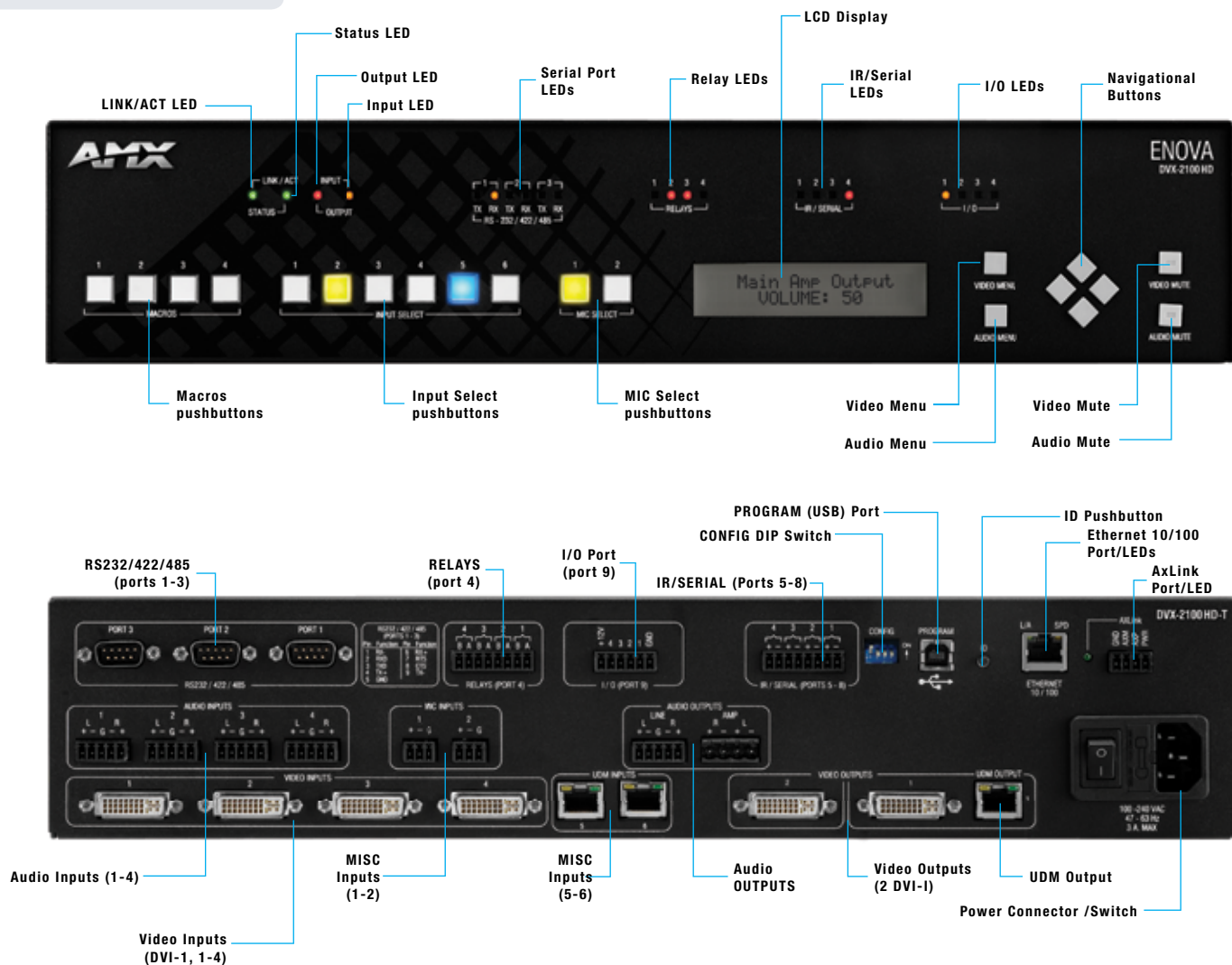
SPOTLIGHT: ENOVA
A new, innovative philosophy on how you think about AV technology: Enova is part of an evolution to collaborate, communicate and educate using AV technology. Visit www.amx.com/enova/ to learn more.

A CLOSER LOOK

Status LED

Output LED

Input LED

LINK/ACT LED

Serial Port LEDs

Relay LEDs

LCD Display

IR/Serial LEDs

I/O LEDs

Navigational Buttons

Macros pushbuttons

Input Select pushbuttons

MIC Select pushbuttons

Video Menu

Audio Menu

Video Mute

Audio Mute

PROGRAM (USB) Port

CONFIG DIP Switch

I/O Port (port 9)

IR/SERIAL (Ports 5-8)

ID Pushbutton

Ethernet 10/100 Port/LEDs

AxLink Port/LED

RS232/422/485 (ports 1-3)

RELAYS (port 4)

Audio Inputs (1-4)

MISC Inputs (1-2)

MISC Inputs (5-6)

Audio OUTPUTS

Video Outputs (2 DVI-I)

UDM Output

Power Connector /Switch

Video Inputs (DVI-1, 1-4)

SPECIFICATIONS

DIMENSIONS (HWD)
3 1/2" x 17" x 14 1/4" (8.9 cm x 43.2 cm x 36.2 cm)

WEIGHT:
14.7 lb (6.67 kg)

POWER
110-240V, 47/63 Hz, 3A maximum AC supply

MEMORY
• 64 MB SDRAM
• 1 MB Non-volatile (NV) SRAM

FLASH
256 MB

AMPLIFIER
• DVX-2100HD-SP: 2 x 25W into 8 Ohms Class D stereo amplifier
• DVX-2100HD-T: 75W, 70V/100V mono amplifier

ENCLOSURE
Metal with black matte finish

INTEGRATED CONTROLLER
Equivalent of a NetLinx 2100 central controller on-board

FRONT PANEL COMPONENTS
• LINK/ACT (green): Link/Activity LED blinks when receiving Ethernet data packets.
• STATUS (green): Status LED blinks to indicate that the system is programmed and communicating properly.
• INPUT (yellow): Input LED blinks to indicate that the Controller is receiving data.
• OUTPUT (red): Output LED blinks to indicate that the Controller is transmitting data.
• RS-232 / 422 / 485 (red/yellow): 3 sets of LEDs indicate that RS-232/422/485 Ports (1-3) are transmitting or receiving data.
• RELAYS (red): 4 LEDs indicate that one or more of the relay channels (1-4) are active (closed).
• IR/SERIAL (red): 4 LEDs indicate that one or more of the IR/Serial channels (1-4) are transmitting control data.
• I/O (yellow): 4 LEDs indicate that one or more of the I/O channels (1-4) are active.
• MACROS pushbuttons: 4 back-lit pushbuttons allow access to macro functions. Macro functions are programmed via NetLinx code.
• INPUT SELECT pushbuttons: 6 back-lit (multi-color) source selection pushbuttons select an Input (source). Pressing an INPUT SELECT button after pressing the VIDEO MENU button activates only the video for the source input. Similarly, pressing the AUDIO MENU button followed by an INPUT SELECT button activates only the audio on the source input.
• MIC SELECT pushbuttons: 2 back-lit (yellow) buttons for selecting a microphone. Each button lights to indicate that a microphone is selected.
• LCD display: Liquid crystal display (2 lines with 20 characters per line) indicates current volume level and displays the Video, Audio, and Tools menus.
• VIDEO MENU pushbutton: Press to access the Video menu on the LCD display.
• AUDIO MENU pushbutton: Press to access the Audio menu on the LCD display.
• Navigational pushbuttons: 4 directional buttons for navigating the options in the Video and Audio menu (on the LCD display).
• VIDEO MUTE pushbutton: Press to mute/un-mute (enable/disable) all video output displays. Video Mute results in a blank screen on the output display.
• AUDIO MUTE pushbutton: Press to mute/un-mute all audio outputs.

REAR PANEL COMPONENTS
• RS-232/422/485 (Ports 1-3) provide serial control via DB9 (male) connectors:
  - XON/XOFF (transmit on/transmit off)
  - CTS/RTS (clear to send/ready to send)
  - 300-115,200 baud
• RELAYS (Port 4) provides relay control via 8-pin 3.5 mm captive-wire connector:
  - 4-channel single-pole single-throw relay ports
  - Each relay is independently controlled
  - Supports up to 4 independent external relay devices
  - Channel range = 1-4
  - Each relay can switch up to 24 VDC or 28 VAC @ 1 A
  - One 8-pin 3.5 mm mini-Phoenix (female) connectors provide relay termination
• IR/SERIAL (Ports 5-8) provide IR/Serial control via 2-pin 3.5 mm captive-wire connectors:
  - Supports high-frequency carriers of up to 1.142 MHz
  - 4 IR/Serial data signals can be generated simultaneously
• I/O (Port 9) provides 4-channel binary I/O port for contact closure with each input being capable of voltage sensing.
• AUDIO INPUTS 4 3.5mm 5-pin captive-wire connectors receive up to four balanced/unbalanced line level audio inputs:
  - Nominal input level: +4 dBu (1.228 Vrms) balanced or -10 dBV (0.3162 Vrms) unbalanced
  - Maximum input level: 2 Vrms
  - Input impedance: >12k ohms unbalanced, >12k ohms balanced, DC coupled
• MIC INPUTS: 2 3.5mm 3-pin captive-wire connectors receive up to 2 mono microphones (balanced or unbalanced audio and switchable Phantom Power).
• AUDIO OUTPUTS:
  - LINE: 1 3.5mm 5-pin captive-wire connector provides for fixed or variable, balanced or unbalanced, mono or stereo line level audio output
  - AMP: 2-position captive wire connector provides amplified audio output with volume control
• VIDEO INPUTS (1-4): 4 DVI-I input connectors provide multi-format video inputs for up to four video sources. Each VIDEO INPUT connector supports RGBHV, S-video, composite video, component video, and DVI input.
• UDM INPUTS (5-6): 2 RJ-45 inputs receive audio and video from up to two UDM Multi-Format Distribution Hubs or UPX wallplates. The DVX-2100HD-SP is compatible with all UDM Multi-Format Distribution Hubs.
• VIDEO OUTPUTS (FG1905-04/-05) 1&2
  - Two video output connectors provide two separate types of video output
    ○ 2 - DVI-I Output connectors provides digital and analog video output. You can view Digital and Analog output one at a time or at the same time by using a DVI splitter
    ○ 2 - 1 RJ-45 connector allows the DVX-2100HD-SP to connect to a UDM Multi-Format Receiver (Follows DVI-I Video Output #1)
• CONFIG DIP Switch: 4-position Master configuration DIP switch allows setting the onboard Master execution mode (PRD or normal).
• PROGRAM Port: USB connector that supports USB communications to a PC for system configuration and diagnostics
• ID Pushbutton: Black ID pushbutton sets the NetLinx Device ID assignments of the Internal Control Device. It has no effect on the Internal Switcher Device.k.

- ETHERNET 10/100 Port: RJ-45 connector provides TCP/IP communication. This is an Auto MDI/MDI-X enabled port, which allows you to use either straight-through or crossover Ethernet cables. The Ethernet Port LEDs show communication activity, connection status, speeds, and mode information:
  - SPD (speed) - Yellow LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps.
  - L/A (link/activity) - Green LED lights On when the Ethernet cables are connected and terminated correctly, and blinks when receiving Ethernet data packets.
- AxLink Port: 1 3.5 mm captive-wire connector provides data and power to external control devices. The AxLink LED (green) indicates the state of the AxLink port.

POWER CONNECTOR IEC POWER CORD CONNECTOR:
- 100-240V AC
- 47-63Hz
- 2.5A maximum

ENVIRONMENTAL
- Operating Temperature: 0° C to 40° C (32° F to 104° F)
- Operating Humidity: 5% to 85% RH
- Storage Temperature: -10° C to 70° C (14° F to 158° F)

SUPPORTED VIDEO RESOLUTIONS
HD resolutions up to 1080p and RGB resolutions up to 1920 x 1200 @ 60Hz

CERTIFICATIONS
- RoHS
- FCC Class B
- CE
- CB Scheme
- UL

INCLUDED ACCESSORIES
- 2 CC-NIRC, IR Emitter w/3.5mm Phoenix (FG10-000-11)
- 2 CC-DVIM-VGAF, DVI to VGA Adapter (FG10-2170-13)
- 2 Front Rack Mounting Brackets (62-1905-04)
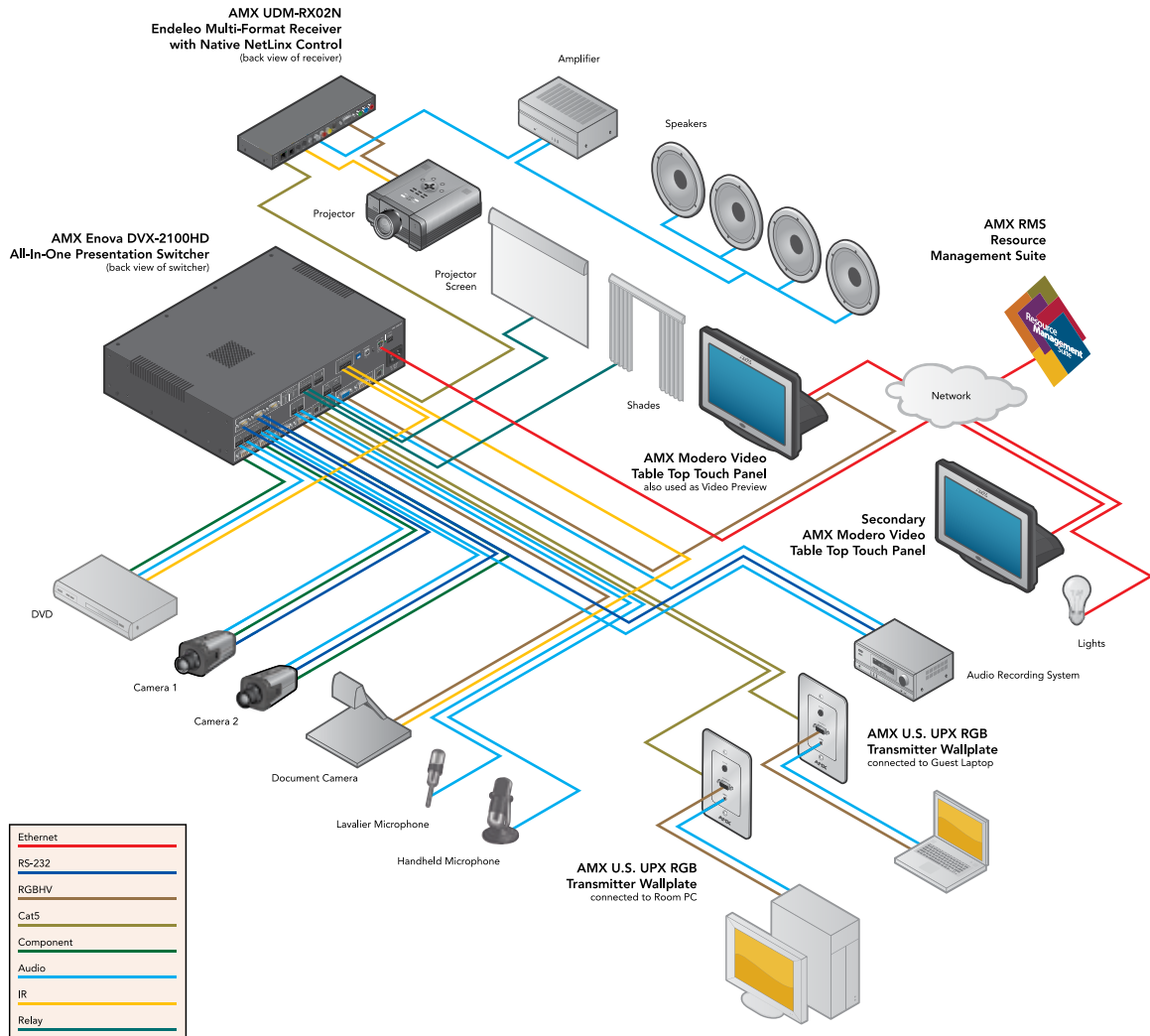- Enova DVX-2100HD-SP All-In-One Presentation Switcher Installation Guide (93-1950-01)

RECOMMENDED ACCESSORIES	DESCRIPTION	PART #	PAGE #
CC-DVI-5BNCM	DVI to 5 BNC Male Cable	(FG10-2170-08)	56
CC-DVI-RCA3M	DVI to 3 RCA Male Cable	(FG10-2170-09)	56
CC-DVIM-VGAF	DVI to HD-15 Female Adapter	(FG10-2170-13)	57
CC-DVI-SVID	DVI to S-Video Cable	(FG10-2170-10)	57
CC-3.5ST5-RCA2F	5-pin 3.5mm Phoenix to 2 RCA Female Cable	(FG10-003-20)	56
UDM-RX02N	Multi-Format Receiver with Native NetLinx Control	(FG1402-20)	690
UPX-CS+A-US	Composite Universal Transmitter Wallplate (US)	(FG1402-50-SW/SB/SA)	71
UPX-CS+A-DE	Composite Universal Transmitter Decor Style Wallplate (US)	(FG1402-50-DW/DB)	72
UPX-CS+A-UK	Composite Universal Transmitter Wallplate (UK)	(FG1402-50-KW/KB/KA)	73
UPX-CS+A-EU	Composite Universal Transmitter Wallplate (EU)	(FG1402-50-EW/EB/EA)	74
UPX-RGB+A-US	RGB Universal Transmitter Wallplate (US)	(FG1402-51-SW/SB/SA)	75
UPX-RGB+A-DE	RGB Universal Transmitter Decor Style Wallplate (US)	(FG1402-51-DW/DB)	76
UPX-RGB+A-UK	RGB Universal Transmitter Wallplate (UK)	(FG1402-51-KW/KB/KA)	77
UPX-RGB+A-EU	RGB Universal Transmitter Wallplate (EU)	(FG1402-51-EW/EB/EA)	78
UPX-CN+A-US	Component Universal Transmitter Wallplate (US)	(FG1402-52-SW/SB/SA)	79
UPX-CN+A-DE	Component Universal Transmitter Decor Style Wallplate (US)	(FG1402-52-DW/DB)	80
UPX-CN+A-UK	Component Universal Transmitter Wallplate (UK)	(FG1402-52-KW/KB/KA)	81
UPX-CN+A-EU	Component Universal Transmitter Wallplate (EU)	(FG1402-52-EW/EB/EA)	82
UPX-HDMI+A-US	HDMI Pass Through Universal Transmitter Wallplate (US)	(FG1402-53-SW/SB/SA)	69
UPX-HDMI+A-DE	HDMI Pass Through Universal Transmitter Decor Style Wallplate (US)	(FG1402-53-DW/DB)	70
HPX-C5400-CS+A	Composite with Stereo to Cat5 Module	(FG552-50-BL-K)	99
HPX-C5400-VGA+A	RGBHV with Stereo to Cat5 Module	(FG552-51-BL-K)	99
HPX-C5400-CN+A	Component with Stereo to Cat5 Module	(FG552-52-BL-K)	98

AMX 53

AMX UDM-RX02N
Endeleo Multi-Format Receiver
with Native NetLinx Control
(back view of receiver)

Amplifier

Speakers

Projector

AMX Enova DVX-2100HD
All-In-One Presentation Switcher
(back view of switcher)

Projector
Screen

AMX RMS
Resource
Management Suite

Resource Management Suite

Network

Shades

AMX Modero Video
Table Top Touch Panel
also used as Video Preview

Secondary
AMX Modero Video
Table Top Touch Panel

DVD

Lights

Camera 1

Camera 2

Audio Recording System

Document Camera

AMX U.S. UPX RGB
Transmitter Wallplate
connected to Guest Laptop

Lavalier Microphone

Handheld Microphone

AMX U.S. UPX RGB
Transmitter Wallplate
connected to Room PC

Ethernet	
RS-232	
RGBHV	
Cat5	
Component	
Audio	
IR	
Relay	

EXP-TOTAL-DVX-2100HD-DC

Enova® Total EXPerience DVX-2100HD
Drop Ceiling Kit

Drop Ceiling Kit (US Mount Wallplates)   (FG1905-10K)
Drop Ceiling Kit (UK Mount Wallplates)   (FG1905-20K)
Drop Ceiling Kit (EU Mount Wallplates)   (FG1905-30K)

INCLUDES
- 1 - DVX-2100HD: All-In-One Presentation Switcher
- 1 - UDM-RX02N: Multi-Format Receiver with Native NetLinx Control
- 2 - UPX-RGB+A-US/UK/EU-W: UPX Universal Transmitter Wallplates with RGB Video/Stereo Audio, White (Kits Available In US, UK or EU Mount)
- 1 - AC-PMNT-DC: Chief® Drop Ceiling Kit
- 1 - SPK-IC-400-T: Klipsch® In-Ceiling, Plenum-rated, Loud Speaker Pair
- 2 - CC-DVI-RCA3M, DVI to 3 RCA Male Cable 6'
- 2 - CC-3.5ST5-RCA2F,5-pin 3.5mm Phoenix to 2 RCA female cable

- 1 - Ethernet Cable
- 1 - USB Programming Cable

BULLSEYE TARGET PRODUCT
This is a Target Product as defined in the U.S. BullsEye Partnership Program. Participating AMX Dealers can be rewarded for purchasing Target Products as a % of their total annual net revenue.

EXP-TOTAL-DVX-2100HD-SM

Enova® Total EXPerience DVX-2100HD
Surface Mount Kit

Surface Mount Kit (US Mount Wallplates)   (FG1905-40K)
Surface Mount Kit (UK Mount Wallplates)   (FG1905-50K)
Surface Mount Kit (EU Mount Wallplates)   (FG1905-60K)

INCLUDES
- 1 - DVX-2100HD: All-In-One Presentation Switcher
- 1 - UDM-RX02N: Multi-Format Receiver with Native NetLinx Control
- 2 - UPX-RGB+A-US/UK/EU-W: UPX Universal Transmitter Wallplates with RGB Video/Stereo Audio, White (Kits Available In US, UK or EU Mount)
- 1 - AC-PMNT-SM: Chief® Surface Mount Kit
- 1 - SPK-W6.5-SMK, 6.5" Wall Speaker Pair with On-Wall Mounting Boxes
- 2 - CC-DVI-RCA3M, DVI to 3 RCA Male Cable 6'
- 2 - CC-3.5ST5-RCA2F,5-pin 3.5mm Phoenix to 2 RCA female cable

- 1 - Ethernet Cable
- 1 - USB Programming Cable

BULLSEYE TARGET PRODUCT
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CC-DVI-5BNCM

DVI to 5 BNC Male Cable

(FG10-2170-08)

OVERVIEW

The CC-DVI-5BNC is a 6 ft. cable used to connect BNC Male to a DVI input.

CC-DVI-RCA3M

DVI to 3 RCA Male Cable

(FG10-2170-09)

OVERVIEW

The CC-DVI-RCA3M is a 6 ft. cable used to connect 3 RCA Male to a DVI input.

CC-3.5ST5-RCA2F

5-pin 3.5mm Phoenix to 2 RCA Female Cable

(FG10-003-20)

OVERVIEW

The CC-3.5ST5-RCA2F is a 6 inch cable used to connect 2 RCA Female to a 5-pin mini-Phoenix connector.
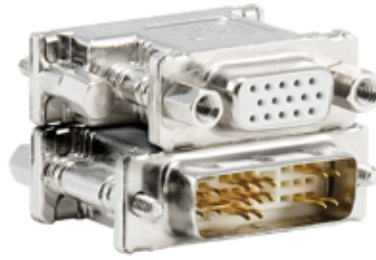
CC-DVIM-VGAF

DVI to HD-15 Female Adapter

(FG10-2170-13)

OVERVIEW

The CC-DVIM-VGAF is an adapter used to convert VGA Female to a DVI Male.

CC-DVI-SVID

DVI to S-Video Cable

(FG10-2170-10)

OVERVIEW

The CC-DVI-SVID is a cable used to connect DVI to S-Video input.