

# 10x4 All-In-One Presentation Switchers (Multi-Format, HDMI Inputs)

DVX-3150HD-SP (FG1905-15) 2x25W 8-Ohm  
DVX-3150HD-T (FG1905-17) 75W 70/100V



## 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
- **Saves Energy** – Includes features that dramatically reduce energy utilization. Use the interactive [DVX Energy Savings Calculator](#) to estimate savings for your particular configuration
- **Game Changing Device** – Standardizing on this box reduces Total Cost of Ownership

#### 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

#### Additional Features

- **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, bi-directional control and Ethernet to DXLink HDMI Receivers up to 100m away over one twisted pair cable – for more details and helpful cabling information, reference the white paper titled [Cabling for Success with DXLink](#), or contact your AMX representative
- **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, compression, gathering, auto-ducking, and limiting on each microphone input ensures crystal clear communication
- **HDCP Compliant**

## Specifications

| GENERAL              |  |
|----------------------|--|
| Enclosure            | Metal with black matte finish  |
| Dimensions (HWD)     | 5 3/16" x 17" x 14" (13.2 cm x 43.2 cm x 35.6 cm)  |
| Weight               | 18.2 lb. (8.26 Kg)   |
| Certifications       | RoHS/WEEE compliant<br>FCC Part 15 Class A<br>IC CISPR 22 Class A<br>C-Tick CISPR 22 Class A<br>CE EN 55022, EN 55024 and EN 60065<br>LVD EN 60950-1<br>IEC 60065<br>UL 60065  |
| Included Accessories | <ul style="list-style-type: none"> <li>• 2 CC-NIRC, IR Emitter w/3.5mm Phoenix (FG10-000-11)</li> <li>• 1 CC-DVIM-VGAF, DVI to VGA Adapter (FG10-2170-13)</li> <li>• (2) Front Rack Mounting Brackets (62-1905-16 and 62-1905-17)</li> <li>• Enova DVX-3150HD All-In-One Presentation Switcher Installation Guide (93-1950-15)</li> </ul>  |
| Optional Accessories | <ul style="list-style-type: none"> <li>• CC-DVI-5BNM, DVI to 5 BNC Male Cable (FG10-2170-08)</li> <li>• CC-DVI-RCA3M, DVI to 3 RCA Male Cable (FG10-2170-09)</li> <li>• CC-DVIM-VGAF, DVI to HD-15 Female Adapter (FG10-2170-13)</li> <li>• CC-DVI-SVID, DVI to S-Video Cable (FG10-2170-10)</li> <li>• CC-3.5ST5-RCA2F, 5-pin 3.5mm Phoenix to 2 RCA Female Cable (FG10-003-20)</li> <li>• AVB-RX-DXLINK-HDMI, DXLink HDMI Receiver Module (FG1010-500)</li> <li>• EXB-IRS4, ICSLan IR/S Interface, 4 IR/S and 4 Inputs (FG2100-23)</li> <li>• EXB-COM2, ICSLan Serial Interface, 2 Ports (FG2100-22)</li> <li>• EXB-REL8, ICSLan Relay Interface, 8 Channels (FG2100-20)</li> <li>• EXB-I/O8, ICSLan Input/Output Interface, 8 Channels (FG2100-21)</li> <li>• EXB-MP1, ICSLan Multi-Port, 1 COM, 1 IR/S, 2 I/O, 1 IR RX (FG2100-26)</li> <li>• CBL-HDMI-FL HDMI, High Speed Flat Cable with RedMere® Technology (FG10-2180-16)</li> <li>• CBL-DP-FL, DisplayPort High Speed Flat Cable with RedMere Technology (FG10-2181-16)</li> <li>• CBL-ETH-FL, Ethernet Cat5e Flat Cable (FG10-2182-16)</li> <li>• CBL-RGB+A-FL RGB with Audio Flat Cable (FG10-2183-16)</li> </ul> |

| ACTIVE POWER REQUIREMENTS |  |
|---------------------------|--|
| Power Consumption         | 90 Watts typical without amplifier<br>95 to 100 Watts typical average with amplifier<br>30 Watts typical in low-power mode |
| Power Connector           | IEC Power Cord Connector<br>100-240 VAC  |

|                               |   |
|-------------------------------|---|
|                               | 47-63 Hz  |
| Power Factor Correction (PFC) | Supported, complies with N60555-2 and EN61000-3-2 |

| ENVIRONMENTAL              |                                   |
|----------------------------|-----------------------------------|
| Temperature (Operating)    | 0° C to 40° C (32° F to 104° F)   |
| Temperature (Storage)      | -10° C to 70° C (14° F to 158° F) |
| Humidity (Operating)       | 5% to 85% RH                      |
| Heat Dissipation (Typical) | 300 BTU/hr                        |
| Heat Dissipation (Standby) | 200 BTU/hr                        |

| ETHERNET           |  |
|--------------------|--|
| Connection         | (1) RJ-45  |
| Description        | 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 |
| Link/Act Indicator | Link/Activity LED (green) blinks when receiving Ethernet data packets, one on Ethernet RJ-45 connector and one on the front panel  |
| Speed Indicator    | Speed LED (yellow) lights On when the connection speed is 100 Mbps Ethernet connection and turns OFF when the speed is 10 Mbps   |

| INTEGRATED AMPLIFIER |  |
|----------------------|--|
| Integrated Amplifier | DVX-3150HD-SP: 2 x 25 W RMS into 8 Ohms Class D stereo amplifier (4-ohm stable)<br>DVX-3150HD-T: 75 W, 70 V / 100 V mono amplifier |

| ONBOARD MASTER           |   |
|--------------------------|---|
| Controller               | Integrated Controller is the equivalent of a NetLink NI-3101-SIG Central Controller   |
| Memory                   | 256 MB SDRAM<br>1 MB Non-volatile (NV) SRAM<br>4 GB FLASH   |
| Program Port             | (1) DB-9 connector that supports RS-232 communications to a PC for system configuration and diagnostics   |
| Configuration Dip Switch | 8-position Master configuration DIP switch allows setting the Serial Programming port baud rate and onboard Master execution mode (PRD or normal) |
| ID Pushbutton            | Black ID pushbutton sets the NetLink Device ID assignments of the Internal Control Device. It has no effect on the Internal Switcher Device       |
| Status Indicator         | Status LED (green) blinks to indicate that the system is programmed and communicating properly  |
| Input Indicator          | Input LED (yellow) blinks to indicate that the Controller is receiving data   |
| Output Indicator         | Output LED (red) blinks to indicate that the Controller is transmitting data  |

| <b>CONTROL PORTS &amp; INDICATORS</b> |   |
|---------------------------------------|---|
| AxLink Port                           | (1) AxLink Port: 1 3.5 mm captive-wire connector provides data and power to external control devices  |
| AxLink Indicator                      | (1) AxLink LED (green) indicates the state of the AxLink port   |
| I/O Channels                          | (1) 6-Pin 3.5 mm (female) captive-wire connector<br>8-channel binary I/O port for contact closure with each input being capable of voltage sensing<br>NetLinx Port 17<br>Channels 1-8   |
| I/O Indicator                         | (8) LEDs (yellow) indicate that one or more of the I/O channels (1-8) are active  |
| IR/Serial                             | (2) 8-pin 3.5 mm (female) captive-wire connectors<br>8 IR Transmit / 1-way Serial ports<br>NetLinx Ports 9-16<br>Supports high-frequency carriers up to 1.142 MHz<br>8 IR/Serial data signals can be generated simultaneously |
| IR/Serial Indicators                  | (8) LEDs (red) indicate that one or more of the IR/Serial ports (1-8) are transmitting control data   |
| Relays                                | (4) single-pole, single-throw relays<br>(2) 8-pin 3.5 mm (female) captive-wire connectors<br>NetLinx Port 8<br>Channels 1-8<br>Each relay can switch up to 24 VDC or 28 VAC @ 1 A<br>Each relay is independently controlled   |
| Relay Indicators                      | (8) LEDs (red) indicate that one or more of the relay channels (1-8) are active (closed)  |
| RS-232/422/485 Ports                  | (6) bi-directional RS-232/422/485 serial ports<br>(6) DB-9 Male Connectors<br>NetLinx Ports 1-6<br>XON/XOFF (transmit on / transmit off)<br>CTS/RTS (clear to send/ready to send)<br>300 - 115,200 baud                       |
| RS-232/422/485 Indicators             | (6) sets of LEDs (red/yellow) indicate that RS-232/422/485 Ports (1-6) are transmitting or receiving data   |

| <b>INTEGRATED MATRIX SWITCHER CONTROL</b> |  |
|---|--|
| 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  |
| Navigation 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  |

| <b>INTEGRATED MATRIX SWITCHER</b> |   |
|-----------------------------------|---|
| Video Switching                   | 10x4 Matrix Video Switching, any of the 10 inputs can be routed to any or all of the 4 video outputs  |
| Video Inputs                      | (4) Multi-Format DVI-I; supports HDMI/HDCCP, DVI, RGB, S-Video, Composite, Component (Y/Pb/Pr)<br>(6) HDMI; supports HDMI/HDCCP   |
| Video Outputs                     | (4) HDMI; supports HDMI/HDCCP<br>(2) DXLink; mirrors associated HDMI outputs; supports digital video, audio, Ethernet and bi-directional control  |
| Video Resolution Support          | Supports resolutions up to 1920 x 1200 @ 60Hz. See Operations Reference Guide for details for each signal type  |
| Progressive Resolution Support    | 480p up to 1920x1200 @ 60 Hz<br>If input is interlaced, all scaled outputs will deinterlace video to a progressive resolution format. If in scaler Bypass mode interlaced input will pass through unaltered   |
| HDCP Support                      | Yes, full matrix HDCP support (includes any input to any or all outputs)<br>Key Management System<br>AMX HDCP InstaGate Pro Technology<br>Key support up to 16 sinks per output, independent of source device   |
| EDID Management                   | A preferred EDID can be selected for each input or any display EDID can be mirrored to any input independently  |
| Audio Switching                   | 14x4 Matrix Audio Switching. Each of the 4 audio outputs has independent volume, EQ, ducking, sync delay and mixing. Any of the 4 audio paths can be routed to any analog, HDMI or S/PDIF output (each mirrored DXLink output passes audio sent to its associated HDMI output)  |
| Audio Inputs                      | (4) female 1/8" stereo mini-phono jacks; support unbalanced audio<br>(4) 3.5 mm 5-position captive-wire terminals; support balanced (differential) or unbalanced (single-ended) stereo audio<br>(2) 3.5 mm 3-pin captive-wire MIC connectors; supports up to two mono microphones, unbalanced or balanced audio<br>(6) HDMI connections support digital audio                                       |
| Audio Outputs                     | DVX-3150HD-SP (FG1905-15):<br>(1) Amplified audio output; 4-position captive wire connector; supports amplified, variable, mono or stereo audio<br>(3) Line level audio output; supports balanced or unbalanced mono or stereo<br>(1) S/PDIF output; mirrors any of the 4 analog audio outputs, or 4 HDMI outputs (each mirrored DXLink output passes S/PDIF if sent to its associated HDMI output) |

|                 |   |
|-----------------|---|
|                 | <p>(4) HDMI connections support digital versions of analog audio or direct pass-through audio</p> <p>(2) DXLink outputs mirror associated HDMI outputs; support digital version of analog audio or direct pass-through</p> <p>DVX-3150HD-T (FG1905-17):</p> <p>(1) Amplified audio output; 2-position captive wire connector; supports 70V or 100V mono audio – connect speakers to either but not both simultaneously</p> <p>(3) Line level audio output; supports balanced or unbalanced mono or stereo</p> <p>(1) S/PDIF output; mirrors any of the 4 analog audio outputs, or 4 HDMI outputs (each mirrored DXLink output passes S/PDIF if sent to its associated HDMI output)</p> <p>(4) HDMI connections support digital versions of analog audio or direct pass-through audio</p> <p>(2) DXLink outputs mirror associated HDMI outputs; support digital version of analog audio or direct pass-through</p> |
| Audio Breakaway | Yes, stereo audio from any input can be embedded to or de-embedded from its associated video, processed through DSP, and switched independently to any analog or HDMI output (DXLink outputs are mirrored to associated HDMI outputs so they will pass the associated audio, as will the S/PDIF output which mirrors one of the other audio outputs)  |

| <b>MULTI-FORMAT VIDEO WITH DVI-I</b> |   |
|--------------------------------------|---|
| Multi-Format Input Connections       | (4) DVI-I; Ports (1-4)  |
| Multi-Format Supported Video         | HDMI/HDCP, DVI/HDCP, RGB, S-Video, Composite, Component (Y/Pb/Pr)   |
|                                      | See specifications for each signal style over DVI-I for more detail |
| Pixel Clock (Max)                    | 165 MHz (225 MHz in pass-thru mode up to 1080p)                     |
| Input Equalization                   | Yes   |
| Input Re-Clocking (CDR)              | Yes   |

| <b>COMPONENT (Y/Pb/Pr) WITH DVI-I</b> |   |
|---------------------------------------|---|
| Input Level                           | 1 Vp-p nominal  |
| Input Impedance                       | 75 Ohms, nominal  |
| Note                                  | Requires DVI-I to 3 RCA Adapter or DVI-I to 5 BNC Adapter |
|                                       | AC coupled: Insensitive to DC offset                      |

| <b>S-VIDEO WITH DVI-I</b> |                                      |
|---------------------------|--------------------------------------|
| Input Level               | 1 Vp-p nominal                       |
| Input Impedance           | 75 Ohms, nominal                     |
| Note                      | Requires DVI-I to S-Video Adapter    |
|                           | AC coupled: Insensitive to DC offset |

| COMPOSITE WITH DVI-I |   |
|----------------------|---|
| Input Level          | 1 Vp-p nominal  |
| Input Impedance      | 75 Ohms, nominal  |
| Note                 | Requires DVI-I to 3 RCA Adapter or DVI-I to 5 BNC Adapter<br><br>AC coupled: Insensitive to DC offset |

| RGBHV WITH DVI-I     |  |
|----------------------|--|
| Supported Video      | RGBHV, RGBS, RGsB                                      |
| Input Level          | 1 Vp-p nominal   |
| Input Impedance      | 75 Ohms, nominal                                       |
| Sync Input Level     | 2 to 5 Vp-p  |
| Sync Input Impedance | 2.5 pf Typical, 10 pF Maximum                          |
| Note                 | Requires DVI to HD15 Adapter or DVI-I to 5 BNC Adapter |

| DVI WITH DVI-I       |                              |
|----------------------|------------------------------|
| Supported Video      | DVI 1.0                      |
| Sync Input Level     | 2 to 5 Vp-p                  |
| Sync Input Impedance | 2.5 pf Typical, 10pF Maximum |
| Note                 | Format: RGB                  |

| HDMI WITH DVI-I |   |
|-----------------|---|
| HDCP Compliance | Yes   |
| Note            | Requires DVI to HDMI Adapter<br><br>Signal Types: Supports full matrix switching, video processing and scaling of 8 bit per color standard Input video signals. Supports full matrix switching and pass-thru of all HDMI compliant video signals including 3-D and Deep Color |

| HDMI WITH HDMI Type A Female |   |
|------------------------------|---|
| Input Connections            | (6) HDMI Type A Female, Ports (5-10)  |
| Input Signal Type Support    | HDMI/HDCP, DVI/HDCP, Display Port ++  |
| Data Rate (Max)              | 4.95 Gbps (6.75 Gbps in pass-thru mode up to 1080p)   |
| Pixel Clock (Max)            | 165 MHz (225 MHz in pass-thru mode up to 1080p)   |
| Input Equalization           | Yes   |
| Input Re-Clocking (CDR)      | Yes   |
| Output Connections           | (4) HDMI Type A Female, Ports (1-4)   |
| Output Signal Type Support   | HDMI/HDCP, DVI/HDCP   |
| Output Scaling               | SmartScale or Manual Configuration or Bypass<br>SmartScale output resolution support: All resolutions between 480p and 1920 x 1200 @ 60 Hz via automatic SmartScale query of the display's declared EDID Detailed Timing Definition |
| Deep Color Support           | Scaled Outputs: 24-bit, pass-thru Outputs: 30-bit, 36-bit   |
| Color Space Support          | Y,Cb,Cr & RGB   |
| 3D Format Support            | Yes, when in Bypass mode, HDMI primary formats  |
| HDCP Compliance              | Yes   |



|                               |  |
|-------------------------------|--|
| Audio Format Support for HDMI | Supports Dolby TrueHD, Dolby Digital, DTS-HD Master Audio, DTS, L-PCM  |
| Note                          | <p>DisplayPort ++ requires DisplayPort to HDMI adapter cable</p> <p>Supports full matrix switching, video processing and scaling of 8 bit per color standard Input video signals.</p> <p>Supports full matrix switching and pass-thru of all HDMI compliant video signals including 3-D and Deep Color</p> <p>Each output can deliver processed and scaled video or pass-thru video from any video input</p> <p>Each output can embed audio from any of the 3 analog audio outputs as Stereo L-PCM or can pass-thru Dolby TrueHD, Dolby Digital, DTS-HD Master Audio, DTS and L-PCM audio from the selected video source</p> |

| <b>DXLINK WITH RJ-45</b>  |  |
|---------------------------|--|
| Output Connections        | (2) RJ-45; Port (1,3); DXLink outputs mirror HDMI outputs 1 and 3  |
| Output Compatible Formats | <p>Digital Video with embedded audio, analog audio, Ethernet, Bi directional control</p> <p>Supports full matrix switching and pass-thru of all HDMI compliant video signals including 3D and Deep Color</p> <p>Audio Signal Types: Supports Dolby TrueHD, Dolby Digital, DTS-HD Master Audio, DTS, L-PCM</p>  |
| Output Re-Clocking        | Yes  |
| Output Scaling            | SmartScale or Manual Configuration or Bypass   |
| HDCP Support              | Yes  |
| Twisted Pair Cable Type   | <p>Shielded Cat6, Cat6A and Cat7</p> <p><b>DXLink twisted pair cable runs for DXLink equipment shall only be run within a common building where a common building is defined as: the walls of the structure(s) are physically connected and the structure(s) share a single ground reference</b></p> <p>For more details and helpful cabling information, reference the white paper titled <a href="#">Cabling for Success with DXLink</a>, or contact your AMX representative</p> |
| Note                      | Supports full matrix switching, video processing and scaling of 8 bit per color standard Input video   |

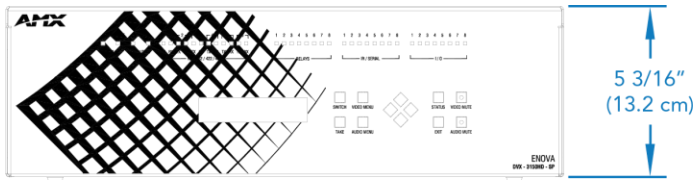
| <b>ANALOG AUDIO</b>            |   |
|--------------------------------|---|
| Analog Audio Input Connections | <p>(4) female 1/8" stereo mini-phono jacks; support unbalanced audio</p> <p>(4) 3.5 mm 5-position captive-wire terminals; support balanced (differential) or unbalanced (single-ended) stereo audio</p> |
| Input Level (Nominal)          | +4 dBu (1.228 Vrms) balanced or -10 dBV (0.3162 Vrms) unbalanced  |
| Input Level (Maximum)          | +14 dBu 2 Vrms  |

|                                 |   |
|---------------------------------|---|
| Input Impedance                 | >12 kOhms balanced, >12 kOhms unbalanced  |
| Analog Audio Output Connections | DVX-3150HD-SP (FG1905-15):<br>(1) Amplified audio output; 4-position captive wire connector; supports amplified, variable, mono or stereo audio<br>(3) Line level audio output; supports balanced or unbalanced mono or stereo<br><br>DVX-3150HD-T (FG1905-17):<br>(1) Amplified audio output; 2-position captive wire connectors; supports 70V or 100V mono audio – connect a speaker to either but not both simultaneously<br>(3) Line level audio output; supports balanced or unbalanced mono or stereo |
| Volume Control                  | -100 dB to +0 dB in 1 dB steps  |
| Balance Control                 | 20 steps each left and right  |
| Output Level (Maximum)          | +17 dBu (line level)  |
| Output Impedance                | 200 Ohms (line level)   |
| Audio Channel Crosstalk         | Balanced Line Inputs: -98 dB @ 0 dBV, 20 Hz to 20 kHz<br>Unbalanced Line Inputs: -70 dB @ 0 dBV, 20 Hz to 20 kHz  |
| Audio Frequency Response        | AMP: 20 Hz to 20 kHz $\pm$ 0.75 dB @ 8 Ohms<br>Line: 20 Hz to 20 kHz $\pm$ 0.1 dB   |
| Audio Input Compression         | Independent Compression per input<br>Attack: 1 to 2000 ms<br>Release: 10 to 5000 ms<br>Compression Ratio: 1 to 20<br>Threshold: -60 to 0 dB   |
| Audio Input Gain Compensation   | -24 dB to +24 dB, 1dB steps   |
| Audio Output Equalizer          | 10-band parametric EQ with variable center frequency, filter type and Q per band<br>Center Frequency: 20 Hz to 20 kHz<br>EQ Gain: -12 to +12 dB<br>Q: 0.1 to 20<br>Filter Types: Bell, Base Shelving, Treble Shelving, Low Pass, High Pass, Band Pass, Band Stop  |
| Audio Output Sync Delay         | 0 to 200 ms   |
| Audio S/N Ratio                 | AMP: 85 dB @ 8 Ohms, full output, 1 kHz A-weighted<br>Line: 105 dB @ 10 dBV, AES17  |
| Audio THD+N                     | AMP: < 0.15% @ 8 Ohms, 20 Watts, 20 Hz to 20 kHz<br>Line: 0.003% @ 0 dBV, 1 kHz   |
| Note                            | Independent EQ, Volume and Balance control per output   |

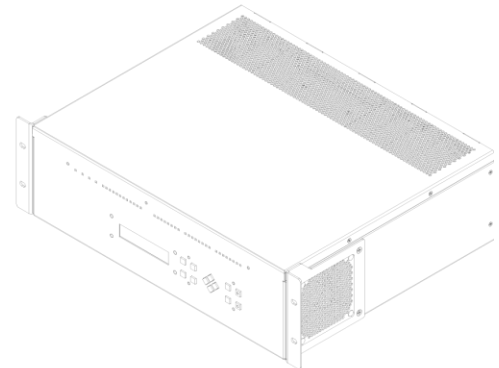
| <b>MICROPHONE AUDIO</b>          |  |
|----------------------------------|--|
| Microphone Input Connections     | (2) 3.5 mm 3-pin captive-wire MIC connectors; supports up to two mono microphones, unbalanced or balanced audio                                |
| Microphone Input Level (Maximum) | 5 dBu  |
| Microphone Input Format Support  | Line or Mic level, balanced or unbalanced audio  |
| Microphone Input Impedance       | 3.5 kOhms, accepts 60 to 600 Ohms sources  |
| Microphone Input Gain            | -24 dB to +89 dB, 1 dB steps   |
| Microphone Input Equalizer       | 3-band parametric EQ with variable center frequency, filter type and Q<br>Center Frequency: 20 Hz to 20 kHz<br>EQ Gain per Band: -12 to +12 dB |

|                              |  |
|------------------------------|--|
|                              | Q per band: 0.1 to 20<br>Filter Types: Bell, Base Shelving, Treble Shelving, Low Pass, High Pass, Band Pass, Band Stop   |
| Microphone Input Compression | Independent Compression per Microphone<br>Attack: 1 to 2000 ms<br>Release: 10 to 5000 ms<br>Compression Ratio: 1 to 20<br>Threshold: -60 to 0 dB                               |
| Microphone Gating            | Independent Gating per Microphone<br>Attack: 1 to 2000 ms<br>Release: 10 to 5000 ms<br>Depth: 0 to 20 dB<br>Hold Off: 0 to 2000 ms<br>Threshold: -60 to 0 dB                   |
| Microphone Limiter           | Independent Limiting per Microphone<br>Attack: 1 to 2000 ms<br>Release: 10 to 5000 ms<br>Threshold: -60 to 0 dB  |
| Microphone Ducking           | Independent Ducking per each of 3 audio paths<br>Attack: 1 to 2000 ms<br>Release: 10 to 5000 ms<br>Attenuation: 0 to 20 dB<br>Hold Off: 0 to 4000 ms<br>Threshold: -60 to 0 dB |
| Microphone Inputs Note       | Phantom Power: switchable 48 V to each microphone @ 8 mA total   |

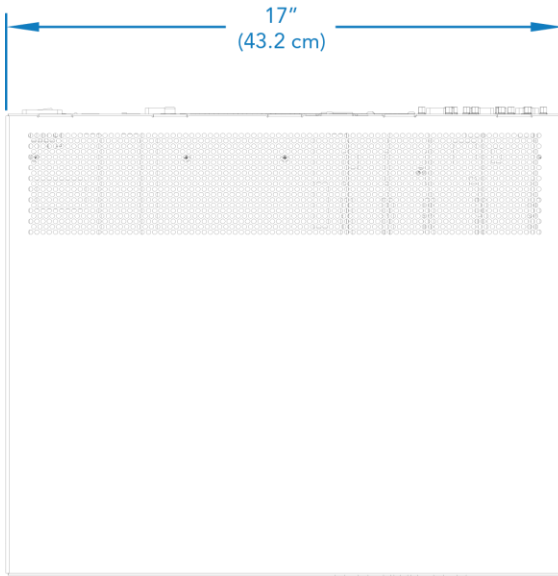
|                             |   |
|-----------------------------|---|
| <b>S/PDIF DIGITAL AUDIO</b> |   |
| S/PDIF Audio Outputs        | (1) S/PDIF output; mirrors either of the 4 analog audio outputs or 4 HDMI outputs (the two DXLink outputs that mirror 2 assigned HDMI outputs support the S/PDIF as well) |
| S/PDIF Audio Output Note    | Output can mirror any of the 4 analog audio outputs as stereo digital audio, or L-PCM, Dolby Digital and DTS audio being passed-thru to any of the 4 HDMI outputs         |



DVX-3150HD  
(Front View)



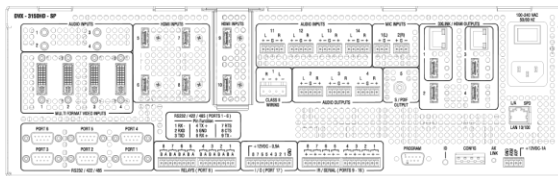
DVX-3150HD  
(Isometric View)



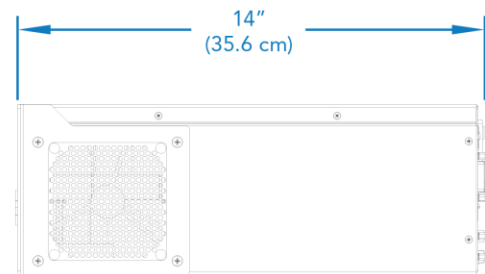
DVX-3150HD  
(Top View)



DVX-3150HD  
(Left View)



DVX-3150HD  
(Back View)



DVX-3150HD  
(Right View)

#### About AMX

AMX hardware and software solutions simplify the implementation, maintenance, and use of technology to create effective environments. With the increasing number of technologies and operating platforms at work and home, AMX solves the complexity of managing this technology with reliable, consistent and scalable systems. Our award-winning products span control and automation, system-wide switching and audio/video signal distribution, digital signage and technology management. They are implemented worldwide in conference rooms, homes, classrooms, network operation / command centers, hotels, entertainment venues, broadcast facilities, and more. ©2014 AMX. All rights reserved.

Specifications subject to change. Revised 1-April-2014.

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