DATA SHEET

6x3 All-In-One Presentation Switchers with NX Control (Multi-Format, HDMI, DXLink™ Inputs)

DVX-2255HD-SP (FG1906-12) 2x25W 8-Ohm
DVX-2255HD-T (FG1906-14) 75W 70/100V

Overview

The Enova® DVX-2255HD 6x3 All-In-One Presentation Switcher is a unified audio, video, and control device that replaces the need for numerous individual components and eliminates the integration and reliability challenges that accompany them. The compact 3U Presentation Switcher integrates a variety of different functionality, such as a scaler, analog to digital signal converter, twisted pair transmitter and amplifier with built-in professional grade audio processing into a single chassis. With AMX-exclusive features, the DVX-2255HD is a simple to install, flexible solution, perfectly suited for large and complex conference rooms, classrooms and auditoriums.

The DVX-2255HD includes the next generation NetLinx Integrated Controller technology, the NX-Series. This new controller provides a scalable platform for the future by combining high performance, backward compatibility and extensive network security features.

The DVX-2255HD includes a long list of features to ensure optimal audio and video quality from virtually any source. The state-of-the-art professional grade audio DSP delivers quality audio throughout a room. The DVX-2255HD's multi-format video inputs support analog and digital signals including HDMI with HDCP sources - all in the same connector. 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-2255HD easy to specify, easy to install and easy to use.

The Enova DVX's all-in-one architecture also delivers the lowest Total Cost of Ownership in the industry, thanks to ease of support, maintenance and configuration, as well as reduced hardware and cabling costs.

Common Applications

- The DVX-2255HD is ideal for dramatically simplifying AV control and distribution in small to medium-sized and large conference rooms, boardrooms and classrooms.
- With the included DXLink inputs, the DVX-2255HD is perfect for rooms where the AV rack is not near your source devices and display
- The flexible DVX-2255HD is perfect for any complex collaboration space with a mix of analog and digital sources, multiple displays, or rooms that require support for video conferencing.
- The DVX-2255HD is perfect for any room or facility with space constraints, especially those that lack space in equipment racks.

Features

- **All-In-One Device** – Controller, matrix switcher, scaler, analog to digital converter, amplifier, plus twisted pair distribution and professional-grade audio DSP – all in a space-saving 3U chassis
- **Simplicity & Reliability** – Replaces the need for numerous individual components and equipment, ensuring high reliability and saving on configuring and programming costs
- **Low Total Cost of Ownership** – With a consistent platform across a variety of sizes, it is easy to standardize on the DVX and reduce costs for hardware, training, support, troubleshooting and sparing
- **Unrivaled Network Security –** With Dual NIC to isolate AMX or third-party AV equipment from the primary network, IPv6 and wired 802.1X for protected network access, and user-defined LDAP login group support, the Enova DVX provides rock-solid security
- **Optimal Video Image Quality Every Time** – Exclusive SmartScale Technology automatically scales the image to the best resolution and video parameters for each display—even for displays of different information—without manual setup, eliminating the need for costly external scalers
- **Crystal Clear Audio** – Includes an integrated digital signal processor with 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
- **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** – Three 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, gating, auto-ducking, and limiting on each microphone input ensures crystal clear communication
- **Matrix Switching** – Freely route any input to any or all outputs without blocking – 6x3 video switcher and 8x3 audio switcher with audio breakaway
- **AV and Control Over Twisted Pair** – Send audio, video, bi-directional control and Ethernet up to 100m over one standard twisted pair cable
- **HDMI/HDCP Switching with Simplicity of Analog** – End-to-end distribution of HDMI/HDCP without interruption or key constraints using exclusive InstaGate Pro® Technology
- **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
- **Enhanced Diagnostics On Serial & IR Ports** – Provides real time error feedback when Serial and IR ports are disconnected or improperly wired
- **3D Support** – Pass through latest video formats including 3D and Deep Color
- **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
- **DXLink Twisted Pair Inputs** – Receive audio and video from DXLink Multi-Format Transmitters and Solecis Digital Switchers and deliver bi-directional control and Ethernet. In addition the DVX provides power to DXLink Multi-Format Transmitters. For more details and helpful cabling information, reference the white paper titled Cabling for Success with DXLink, or contact your AMX representative

- **Saves Energy** – Includes features that dramatically reduce energy utilization. Use the interactive DVX Energy Savings Calculator to estimate savings for your particular configuration

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)
Regulatory Compliance	FCC Part 15 Class A CE EN 55022 CE EN 55024 CE EN 60065 IEC 60065 IC CISPR 22 Class A C-Tick CISPR 22 Class A LVD EN 60950-1 UL 60065 RoHS WEEE
Included Accessories	• (1) Power Cord, Universal • (1) Commoning Strip, Cypher, 8 Pos., 3.5 mm, Phoenix Connector • (2) Front Rack Mounting Brackets • (8) #8-32 x .375 screws • (4) Rubber feet • (2) CC-NIRC, IR Emitter with 3.5mm Phoenix Connector (FG10-000-11) • (1) CC-DVIM-VGAF, DVI to HD-15 Female Adapter (FG10-2170-13)
Optional Accessories	• CC-DVI-5BNCM, DVI to 5 BNC Male Cable (FG10-2170-08) • CC-DVI-RCA3M, DVI to 3 RCA Male Cable (FG10-2170-09) • CC-DVIM-VGAF, DVI to HD-15 Female Adapter (FG10-2170-13) • CC-DVI-SVID, DVI to S-Video Cable (FG10-2170-10) • CC-3.5ST5-RCA2F, 5-pin 3.5mm Phoenix to 2 RCA Female Cable (FG10-003-20) • DX-RX, DXLink HDMI Receiver Module (FG1010-500) • DX-TX, DXLink Multi-Format Transmitter Module (FG1010-310) • DX-TX-DWP-BL/WH, DXLink Multi-Format Decor Style Wallplate Transmitters (US) (FG1010-325-BL/WH) • DX-TX-WP-BL/WH, DXLink Multi-Format Wallplate Transmitters (FG1010-320-BL/WH) • SDX-410-DX, 4x1 HDMI Digital Switcher with DXLink Output (FG1010-304) • SDX-510M-DX, 5x1 Multi-Format Digital Switcher with DXLink Output (FG1010-315) • SDX-810-DX, 8x1 HDMI Digital Switcher with DXLink Output (FG1010-308) • EXB-IRS4, ICSLan IR/S Interface, 4 IR/S and 4 Inputs (FG2100-23) • EXB-COM2, ICSLan Serial Interface, 2 Ports (FG2100-22) • EXB-REL8, ICSLan Relay Interface, 8 Channels (FG2100-20)

	• EXB-I/O8, ICSLan Input/Output Interface, 8 Channels (FG2100-21) • EXB-MP1, ICSLan Multi-Port, 1 COM, 1 IR/S, 2 I/O, 1 IR RX (FG2100-26) • CBL-HDMI-FL HDMI, High Speed Flat Cable (FG10-2180-16) • CBL-DP-FL, DisplayPort High Speed Flat Cable (FG10-2181-16) • CBL-ETH-FL, Ethernet Cat5e Flat Cable (FG10-2182-16) • CBL-RGB+A-FL RGB with Stereo Flat Cable (FG10-2183-16)

ACTIVE POWER REQUIREMENTS	
Power Consumption	80 Watts typical without amplifier 85 to 90 Watts typical average with amplifier 30 Watts typical in low-power mode
Power Connector	IEC Power Cord Connector 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)	100 BTU/hr

ETHERNET	
Connection	(1) RJ-45
Description	10/100 Port RJ-45 connector provides TCP/IP communication. Auto MDI/MDI-X enabled. Supports IPv4 and IPv6 networks. Supports HTTP, HTTPS, Telnet, FTP
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-2255HD-SP: 2 x 25 W RMS into 8 Ohms Class D stereo amplifier (4 Ohm stable) DVX-2255HD-T: 75 W, 70 V / 100 V mono amplifier

ICSLAN	
ICSLan Connection	(1) RJ-45, 10/100 Port RJ-45 connector. Auto MDI/MDI-X enabled. Supports IPv4 and IPv6 networks. Supports HTTP, HTTPS, Telnet, FTP

ICSLan Link/Active Indicator	ICSLan LED (green) blinks when receiving Ethernet data packets, one on Ethernet RJ-45 connector and one on the front panel
ICSLan 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

ONBOARD MASTER	
Controller	Integrated Controller is the equivalent of a NetLink NX-2200 Integrated Controller
Memory	• NVRAM: 1 MB • Memory Card: 16 GB SD • DDRAM: 1 GB Note: Supports external USB Solid State Drive
Processor	1600 MIPS
Program Port	(1) USB Standard B
Configuration Dip Switch	4-Position
ID Pushbutton	Black ID pushbutton for setting IP mode and reverting to default configuration and firmware 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
USB Host Port	(2) USB Standard A, one on front and one on back, USB Host port supports Solid State drive for upgrading firmware, loading code files, copying configuration data and remote storage

CONTROL PORTS & INDICATORS	
AxLink Port (1)	(1) 4-position 3.5mm Screw Terminal, provides data and power to external AxLink control devices
AxLink Indicator	(1) AxLink LED (green) indicates the state of the AxLink port
RS-232/422/485 Port	(1) 10-position 3.5mm Screw Terminal NetLinx Port 1 XON/XOFF (transmit on / transmit off) CTS/RTS (clear to send/ready to send) 300 - 115,200 baud
RS-232 Port	(3) 5-position 3.5mm Screw Terminal NetLinx Ports 2-4 XON/XOFF (transmit on / transmit off) CTS/RTS (clear to send/ready to send) 300 - 115,200 baud
Serial Indicator	(4) sets of LEDs (red/yellow) indicate when serial Ports 1-4 are transmitting and receiving data
IR/Serial	(4) 2-position 3.5mm Screw Terminal 4 IR Transmit / 1-way Serial ports NetLinx Ports 11-14 Support high-frequency carriers up to 1.142 MHz 4 IR/Serial data signals can be generated simultaneously
IR/Serial Indicators	(4) LEDs (red) indicate when each of the IR/Serial ports (11-14) are transmitting control data
I/O Channels	(4) One 6-position 3.5mm Screw Terminal

	4-channel binary I/O port for contact closure with each input being capable of voltage sensing NetLinx Port 22 Channels 1-4
I/O Indicator	(4) LEDs (yellow) indicate each of the I/O channels (1-4) are active
Relays	(4) One 2-position 3.5 mm Screw Terminal, (4) single-pole, single-throw relays NetLinx Port 21 Channels 1-4 Each relay can switch up to 24 VDC or 28 VAC @ 1 A Each relay is independently controlled
Relay Indicators	(4) LEDs (red) indicate when each of the relay channels (1-4) are active (closed)

INTEGRATED MATRIX SWITCHER CONTROL	
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

INTEGRATED MATRIX SWITCHER	
Video Switching	6 x 3 Matrix Video Switching, any of the 6 inputs can be routed to any or all of the 3 video outputs
Video Inputs	(2) Multi-Format DVI-I; supports HDMI/HDCP, DVI, RGB, S-Video, Composite, Component (Y/Pb/Pr) (2) HDMI; supports HDMI/HDCP (2) DXLink; supports digital video, HDCP, audio, Ethernet, bi-directional control and power
Video Outputs	(2) HDMI; supports HDMI/HDCP (1) DXLink; supports digital video, audio, Ethernet, bi-directional control and power
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 1920 x 1200 @ 60 Hz

	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) Key Management System AMX HDCP InstaGate Pro Technology 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	8 x 3 Matrix Audio Switching. Each of the 3 audio outputs has independent volume, EQ, ducking, sync delay and mixing. Any of the 3 audio paths can be routed to any analog, HDMI or S/PDIF output
Audio Inputs	(2) female 1/8” stereo mini-phono jacks; support unbalanced audio (2) 3.5 mm 5-position captive-wire terminals; support balanced (differential) or unbalanced (single-ended) stereo audio (2) 3.5 mm 3-pin captive-wire MIC connectors; supports up to two mono microphones, unbalanced or balanced audio (2) HDMI connections support digital audio (2) DXLink connections support audio from DXLink transmitters
Audio Outputs	DVX-2255HD-SP (FG1906-12): (1) Amplified audio output; 4-position captive wire connector; supports amplified, variable, mono or stereo audio (2) Line level audio output; supports balanced or unbalanced mono or stereo (1) S/PDIF output; mirrors any of the 3 analog audio outputs, or 2 HDMI outputs or DXLink output (2) HDMI connections support digital versions of analog audio or direct pass-through audio (1) DXLink outputs support digital version of analog audio or direct pass-through DVX-2255HD-T (FG1906-14): (1) Amplified audio output; 2-position captive wire connectors; supports 70 V or 100 V mono audio – connect speakers to either but not both simultaneously (2) Line level audio output; supports balanced or unbalanced mono or stereo (1) S/PDIF output; mirrors any of the 3 analog audio outputs, or 2 HDMI outputs or DXLink output (2) HDMI connections support digital versions of analog audio or direct pass-through audio (1) DXLink outputs mirror associated HDMI outputs; support digital version of analog audio or direct pass-through
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)

MULTI-FORMAT VIDEO WITH DVI-I	
Multi-Format Input Connections	(2) DVI-I; Ports (1-2)
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

COMPONENT (Y/Pb/Pr) 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 AC coupled: Insensitive to DC offset

S-VIDEO WITH DVI-I	
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 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 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	(2) HDMI Type A Female, Ports (3-4)
Input Signal Type Support	HDMI/HDCP, DVI/HDCP, Display Port ++
Data Rate (Max)	4.95 Gbps (6.75 Gpbs 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	(2) HDMI Type A Female, Ports (1-2)
Output Signal Type Support	HDMI/HDCP, DVI/HDCP
Output Scaling	SmartScale or Manual Configuration or Bypass 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
Notes	DisplayPort ++ requires DisplayPort to HDMI adapter cable 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 Each output can deliver processed and scaled video or pass-thru video from any video input 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

DXLINK WITH RJ-45	
Input Connections	(2) RJ-45; Ports 5-6
Input Compatible Formats	Digital video, audio, Ethernet, bi-directional control and power (supported capabilities for DXLink vary by

	connected device, see connected device manual for more information)
Output Connections	(1) RJ-45; Port (3)
Output Compatible Formats	Digital Video with embedded audio, analog audio, Ethernet, bi-directional control and power Supports full matrix switching and pass-thru of all HDMI compliant video signals including 3-D and Deep Color Audio Signal Types: Supports Dolby TrueHD, Dolby Digital, DTS-HD Master Audio, DTS, L-PCM
Output Re-Clocking	Yes
Output Scaling	SmartScale or Manual Configuration or Bypass
Input Connections	(2) RJ-45; Ports (5, 6)
Input Compatible Formats	Digital video, audio, Ethernet, bi-directional control and power (supported capabilities for DXLink vary by connected device, see connected device manual for more information)
HDCP Support	Yes
Twisted Pair Cable Type	Shielded Cat6, Cat6A and Cat7 **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** For more details and helpful cabling information, reference the white paper titled Cabling for Success with DXLink, or contact your AMX representative
Note	Supports full matrix switching, video processing and scaling of 8 bit per color standard Input video

ANALOG AUDIO	
Analog Audio Input Connections	(2) female 1/8” stereo mini-phono jacks; support unbalanced audio (2) 3.5 mm 5-position captive-wire terminals; support balanced (differential) or unbalanced (single-ended) stereo audio
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-2255HD-SP (FG1906-12): (1) Amplified audio output; 4-position captive wire connector; supports amplified, variable, mono or stereo audio (2) Line level audio output; supports balanced or unbalanced mono or stereo DVX-2255HD-T (FG1906-14): (1) Amplified audio output; 2-position captive wire connectors; supports 70 V or 100 V mono audio – connect a speaker to either but not both simultaneously (2) 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 Unbalanced Line Inputs: -70 dB @ 0 dBV, 20 Hz to 20 kHz
Audio Frequency Response	AMP: 20 Hz to 20 kHz ±0.75 dB @ 8 Ohms Line: 20 Hz to 20 kHz ±0.1 dB
Audio Input Compression	Independent Compression per input Attack: 1 to 2000 ms Release: 10 to 5000 ms Compression Ratio: 1 to 20 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 Center Frequency: 20 Hz to 20 kHz EQ Gain: -12 to +12 dB Q: 0.1 to 20 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 Line: 105 dB @ 10 dBV, AES17
Audio THD+N	AMP: < 0.15% @ 8 Ohms, 20 Watts, 20 Hz to 20 kHz Line: 0.003% @ 0 dBV, 1 kHz
Note	Independent EQ, Volume and Balance control per output

MICROPHONE AUDIO	
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 Center Frequency: 20 Hz to 20 kHz EQ Gain per Band: -12 to +12 dB Q per band: 0.1 to 20 Filter Types: Bell, Base Shelving, Treble Shelving, Low Pass, High Pass, Band Pass, Band Stop
Microphone Input Compression	Independent Compression per Microphone Attack: 1 to 2000 ms Release: 10 to 5000 ms Compression Ratio: 1 to 20 Threshold: -60 to 0 dB
Microphone Gating	Independent Gating per Microphone Attack: 1 to 2000 ms Release: 10 to 5000 ms Depth: 0 to 20 dB Hold Off: 0 to 2000 ms Threshold: -60 to 0 dB
Microphone Limiter	Independent Limiting per Microphone Attack: 1 to 2000 ms

	Release: 10 to 5000 ms Threshold: -60 to 0 dB
Microphone Ducking	Independent Ducking per each of 3 audio paths Attack: 1 to 2000 ms Release: 10 to 5000 ms Attenuation: 0 to 20 dB Hold Off: 0 to 4000 ms Threshold: -60 to 0 dB
Microphone Inputs Note	Phantom Power: switchable 48 V to each microphone @ 8 mA total

S/PDIF DIGITAL AUDIO	
S/PDIF Audio Outputs	(1) S/PDIF output; mirrors either of the 3 analog audio outputs, 2 HDMI outputs or DXLink output
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

For a more detailed pictorial drawing please visit: http://www.amx.com/products/DVX-2255HD.asp