



NMX-PRS-N7142 Presentation Switcher

6X2 Presentation Switcher with Card-Ready Networked AV Slots

NMX-PRS-N7142 (FGN7142) - with Card-Ready Networked AV Slots

NMX-PRS-N7142-23 – with Pre-Populated with N2312 Encoder Card and N2322 Decoder Card



Overview

The N7142 is the first presentation switcher to incorporate low-latency Networked AV video distribution. It has six local inputs, four outputs, and two available slots for any of our new and existing networked AV cards to support the best codec for the application. The four 4K60 HDMI inputs and two VGA inputs, can be independently switched between two scaled HDMI outputs. Each of the two outputs has a mirrored HDMI port so that the output can be sent to an encoder card, a second display, or other video distribution equipment.

The N7142 also has a 60W stereo amplifier capable of operating in 4 Ω /8 Ω , 70V, or 100V modes. In addition to audio from the HDMI inputs, the N7142 has six independent balanced stereo inputs and two independent microphone inputs with phantom power for simple microphone overlay.

Two models of the N7142 are offered. The NMX-PRS-N7142 is the base presentation switcher, with two available Networked AV slots that can be populated with encoder and decoder cards as required by the application. The NMX-PRS-N7142-23 is an identical presentation switcher, prepopulated with one N2312 encoder card and one N2322 decoder card, making it perfect for cost-sensitive 4K video distribution applications.

Common Applications

While the N7142 is priced right for any design requiring the need of a presentation switcher, the two available Networked AV card slots make it the perfect presentation switcher for active learning environments, or campuses where overflow support is required.

The N7142 Presentation Switcher features an intuitive web interface that makes it easy to configure, control and use. For basic input switching or volume adjustment, educators and presenters can use the straightforward front-panel controls. The N7142 is also AMX NetLinx Native for use in AMX NetLinx control systems. With a built-in 6-port managed switch, the switcher and the Networked AV cards can be connected to the LAN with only a single network drop.

Features

- **4K60 4:4:4 Video Switching** – Switch and display 4K video sources without compromising video quality.
- **HDMI 2.0 and HDCP 2.2 Support** – By incorporating HDMI 2.0 and HDCP 2.2, the N7142 is compatible with all the latest 4K sources and displays.
- **Integrated Networked AV slots and Gigabit Ethernet Switch** – Distribute video in active learning environments or to overflow locations using built-in Networked AV technology. The Networked AV card slots are designed to support the existing encoder and decoder cards. Three PoE+ ports on the internal network switch can power Networked AV cards, touchpanels, or any other PoE device.
- **Built-in Audio Amplifier with 4 Ω /8 Ω , 70V, and 100V Modes** – Having built-in support for all three amplifier modes simplifies purchasing and sparing decisions.
- **Front Panel Control** – Select inputs without the need for an auxiliary control system.
- **NetLinx Native** – Quickly and easily integrate into an AMX NetLinx system for complete room control.

Specifications

GENERAL	
Enclosure	2RU
Dimensions (HWD)	17.25"W x 3.5"H x 14"D
Weight	19-lbs
Regulatory Compliance	FCC, CE, and NTRL
Included Accessories	Power Cable, rack-mounting wings
ACTIVE POWER REQUIREMENTS	
Power Consumption	2.1 Amp @ 120 Volts AC
Power Connector	Appliance Cord (100-240V, 50-60Hz)
ENVIRONMENTAL	
Temperature (Operating)	0 to 40o deg C
Temperature (Storage)	-30 to +70 deg C
Humidity (Operating)	10% to 90% RH (non-condensing)
Heat Dissipation (Typical)	Up to 850 BTU/hr
VIDEO	
Inputs	(4) independent HDMI inputs w/ HDCP 2.2 4096x2160@60Hz 4:4:4 (2) independent VGA inputs 1920x1200@60HZ 4:4:4
Outputs	(2) independent HDMI outputs w/ HDCP 2.2 4096x2160@60Hz 4:4:4 – both independently scaled and mirrored for (4) local HDMI outputs
HDMI SUPPORTED INPUT RESOLUTIONS	
HDMI supported input resolutions include:	(720x480 @ 60 Hz 800x600 @ 60 Hz 1024x768 @ 60 Hz 1280x960 @ 60 Hz 1280x1024 @ 60 Hz 1360x768 @ 60 Hz 1600x1200 @ 60 Hz 1280x720 @ 50 Hz 1280x720 @ 60 Hz 1920x1080 @ 24 Hz 1920x1080 @ 25 Hz 1920x1080 @ 30 Hz 1920x1080 @ 50 Hz 1920x1080 @ 60 Hz 1920x1200 @ 60 Hz 3840x2160 @ 24 Hz 3840x2160 @ 25 Hz 3840x2160 @ 30 Hz 3840x2160 @ 50 Hz 3840x2160 @ 60 Hz 4096x2160 @ 60 Hz *Note: Interlaced modes are not supported

OUTPUT SCALING RESOLUTIONS	
Output scaling resolutions include:	640x480 @ 60 Hz 1280x720 @ 50 Hz 1280x720 @ 60 Hz 1920x1080 @ 24 Hz 1920x1080 @ 25 Hz 1920x1080 @ 30 Hz 1920x1080 @ 50 Hz 1920x1080 @ 60 Hz 3840x2160 @ 24 Hz 3840x2160 @ 25 Hz 3840x2160 @ 30 Hz 3840x2160 @ 50 Hz 3840x2160 @ 60 Hz 4096x2160 @ 60 Hz

AUDIO	
Inputs	(6) independent balanced stereo inputs (2) independent MIC/line level inputs
Outputs	(2) balanced outputs
Stereo	60W into 4Ω/stereo 60W into 8Ω, or mono 100W (70V), or 100W (100V) (user-selectable)
Digital Signal Processing	Filters and acoustic echo cancellation on all channels
Input Gain	Line : -18dB to +24dB @ 1dB step MIC/Line: -18dB to +56dB @ 1dB step
Frequency Response	- 20~20kHz, +/- 0.5dB THD+N - <0.1%, 20~20kHz at nominal level S/N - > 90dB at max balanced output
Bass	-24dB to +18dB @ 100Hz
Treble	-24dB to +18dB @ 8kHz

NETWORK	
Built-in	(6) port-managed Gigabit Ethernet switch (3) PoE+ ports and (3) non-PoE ports

CONTROL	
Built-in	PanelBuilder Control w/ custom touchpanels

MECHANICAL	
Rack Unit	2RU
Top Slots	(2) which allow for any Network AV cards to be inserted

COMPATIBLE CARD OPTIONS	
Compatible card options include:	<ul style="list-style-type: none"> • N1122/N1122A Encoder • N1222/N1222A Decoder • N1133/N1133A Encoder • N1233/N1233A Decoder • N1134A HD-SDI Encoder • N2312 Encoder • N2322 Decoder • N2122/N2122A Encoder • N2222/N2222A Decoder • N2212/N2212A Decoder • N2135/N2135A Encoder • N2235/N2235A Decoder • N2151/N2151A Encoder

	<ul style="list-style-type: none">• N2251/N2251A Decoder• N2412A Encoder• N2422A Decoder• N3132 Encoder• N3232 Decoder• N4321 Audio Transceiver
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About AMX by HARMAN

Founded in 1982 and acquired by HARMAN in 2014, AMX® is dedicated to providing AV solutions for an IT World. AMX solves the complexity of managing technology with reliable, consistent and scalable systems comprising control, video switching and distribution, digital signage and technology management. AMX systems are deployed worldwide in conference rooms, classrooms, network operation/command centers, homes, hotels, entertainment venues and broadcast facilities, among others. AMX is part of the HARMAN Professional Group, the only total audio, video, lighting, and control vendor in the professional AV market. HARMAN designs, manufactures and markets premier audio, video, infotainment and integrated control solutions for the automotive, consumer and professional markets. Revised 7.17.17. ©2017 Harman. All rights reserved. Specifications subject to change.

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