NETWORK HD

Power Input

DC 12V

LAN (POE)

HDMI OUT

AUDIO OUT

DEBUG

RS232
TX RX GND   TX RX GND

LAN connection to PoE network switch

HDMI Output to Display

Analog Audio Breakout

Debug Port

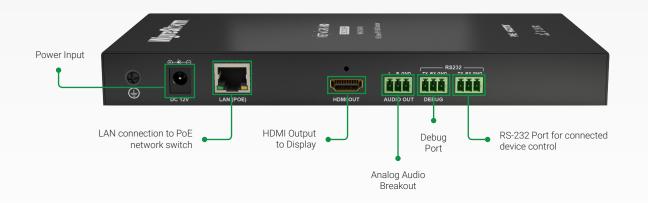RS-232 Port for connected device control

NETWORK HD TOUCH   HDMI®   PoE   HDCP   H.264

WyreStorm - Because the Technology Matters.

Introduction

The NHD-100-RX is the display device decoder for the NetworkHD™ 100 Series, an ultra low bandwidth H.264 AV over IP solution for distribution of point-to-point, one-to-many, and many-to-many AV distribution over a managed network. With simple system configuration and robust feature set, it provides the best value in networked video distribution.

The NHD-100-RX H.264 decoder is intended for use with an NHD-100-TX or NHD-200-TX H.264 encoder (sold separately) to provide a complete end-to-end video distribution system. It is also compatible with the NHD-000-CTL system controller, and can be used in systems with the NHD-SW-0501 presentation switcher.

Key Features

- For use with NHD-100-TX and NHD-200-TX encoder to provide a complete end-to-end streaming system
- NetworkHD Touch iPad control app for live video previews and drag and drop source selection
- Features 1 x LAN (PoE) input to 1 x HDMI output
- Supports input signal resolution up to 1920 x 1080 @60Hz
- Highly scalable, high quality, low bandwidth solution using the most efficient compression technologies to allow for very large commercial AV deployments
- Plug and Play setup with quick networking configuration and auto discovery of components
- Full RS-232 control of connected displays and CEC One-Touch Play / Standby commands via HDMI

- Quick Sync™ technology for virtually instantaneous seamless switching
- Major control systems drivers available including the WyreStorm Enado™ Control System
- Use with the NetworkHD controller (NHD-000-CTL) for matrix control and management via the LAN, as well as for allowing control from third party control system such as AMX, Crestron, Control4, RTI & Enado
- Supports PoE to be remotely powered from the switch by compatible power source equipment, eliminating the need for a nearby power outlet
- Standards-based H.264/MPEG-4 AVC video compression
- Full PC control suite available free of charge at wyrestorm.com
- Supports HDCP

In the Box

1 x NHD-100-RX
1 x 12v DC 1A. Power Supply
3x 3-pin Phoenix Connector

2 x Mounting Ears
1x Quickstart Guide

* NHD-100-RX Decoder is compatible with both 100 and 200 Series systems and should be specified to decode transmissions to individual video display devices from both NHD-100-TX and NHD-200-TX encoders.

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Specifications

Audio and Video	
Inputs	1x LAN (PoE) 8-pin RJ-45 female | 10/100Base-T
Outputs	1x HDMI Out 19-pin HDMI type A female | 1x Audio Out: 3-pin Phoenix
Output Video Encoding	H.264/MPEG-4 AVC
Encoding Data Rate	2~30Mb/s
End to End Latency	60~90 ms (Low latency mode) | 250~300 ms (High quality mode)
Audio Formats	2ch PCM
Video Resolutions (Max)	**Note:** : 1920x1200p is not supported on the current NHD-100-RX version 2. Interlaced content at any resolution is not supported, all source content must be progressive. **HDMI:** 1920x1080p @60Hz 8bit (15m/50ft) **Cat6/6a/7 Input:** 1920x1080p @60Hz 8bit (100m/328ft Point to Point)
Color Depth	8bit
Maximum Pixel Clock	150 MHz
Communication and Control	
HDMI	HDMI | HDCP 1.4
Ethernet	1x 8-pin RJ-45 female | 10/100Base-T | PoE
RS-232	1x RS-232: 3-pin Phoenix
Power	
Power Supply	12V DC 1A
PoE	IEEE 802.3af | 12V 1A 12.95W
Max Power Consumption	6W (DC adapter)
Environmental	
Operating Temperature	0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing
Storage Temperature	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing
Maximum BTU	20.47 BTU/hr
Dimensions and Weight	
Rack Units/Wall Box	<1U
Height	25mm/0.98in
Width	200mm/7.87
Depth	94mm/3.7in
Weight	0.6kg/1.32lbs
Regulatory	
Safety and Emission	CE | FCC | RoHS

Right Product for the Right Application.