



The Future of AV Distribution is Here

What if you could connect high definition AV sources and displays to a standard IP network and seamlessly distribute content from any source to any display at any time? And what if you wanted to build this powerful system for half of what it cost yesterday? Now you can! Introducing NetworkHD™.

Powerfully Simple to Configure and Use

Traditional AV distribution systems involve lots of devices including separate digital & analog matrixes, video wall & windowing processors, scalers, transmitters and receivers. NetworkHD™ achieves a higher performance using only three devices: encoder, decoder and controller. This simplified design reduces sync problems, failure points and overall cost of the system without compromising quality or function.



Modular

Unlike fixed port solutions, NetworkHD™ can grow by adding new displays and sources as needed.



Auto Discovery

Setup is quick and easy with auto discovery of all connected sources and displays.



QuickSync™

Super-fast switching between sources (<500ms) means if you blink, you'll miss it.



PoE - Power over Ethernet

Power over Ethernet allows the encoders and decoders to be powered over the network cable - no need for local power.



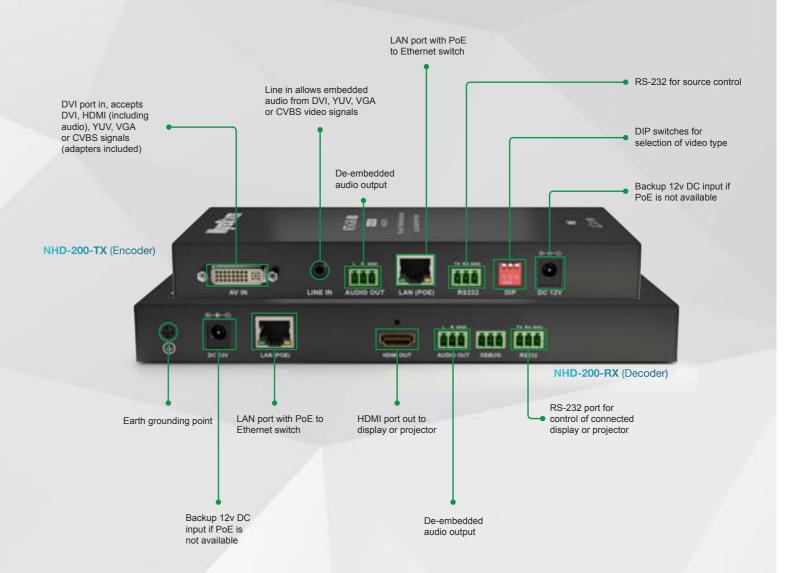
Multi-format Input

Analog and digital sources using 200-Series NetworkHD™ products: DVI,VGA and HDMI inputs. 100-Series is HDMI only.



Video W

With the 200 Series products "NHD-210-RX" video walls are easily integrated into the system.





The Bigger the Better

No application is too big for NetworkHD™. Displays and sources can be located in the same building. Or using fiber optic cabling between buildings, NetworkHD™ is perfect for multi-location applications.



H.264 Compression Technology

As a proven method for efficiently encoding and decoding video content, H.264 compression standards are leveraged across the NetworkHD™ solution.



Audio Where You Want It

NetworkHD™ encoders and decoders allow de-embedding audio for use with amplifiers and other distributed audio devices.



Intuitive Setup

With auto-device-discovery capabilities and menu-driven configuration software, the system can be up and running in literally minutes.



Control System Integration

NetworkHD[™] can be used with or without a separate control system and is fully compatible with most major brands, including the Enado[™] Control System.



Long Distance Abilities

With fiber optic cabling between network switches, NetworkHD™ is ideal for use across multiple buildings.



Cost Savings

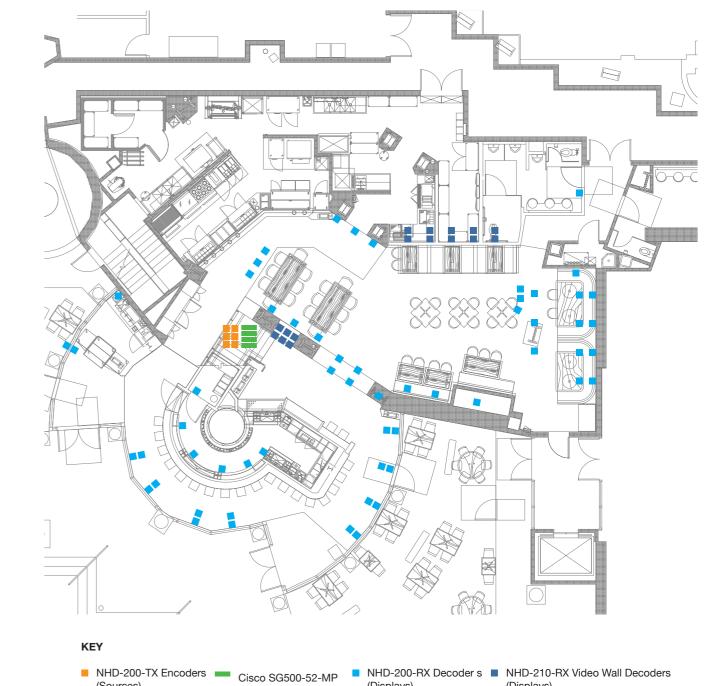
The bigger the system, the greater the savings over fixed port systems. With a simplified setup process, total cost savings are significant with NetworkHDTM.



You're In Control with NetworkHD Touch™ Available as a free iPad App from the App Store, NetworkHD Touch make controlling the system easy. With real time previews of sources, there's no guessing which sources go with which displays. Instant switching between sources is done by dragging the desired source to the appropriate display on the iPad screen. Source control is possible when used in conjunction with the WyreStorm Enado™ Control System. Keep customers happy using the right Touch. TOUCH Available on the App Store

Sportech - Sports Bar - California, USA

When this sports betting organization needed a highly reliable solution to distribute HD content throughout the establishment, NetworkHD™ was the winning choice.



5 Sportech

(Sources)

(Network Switches)

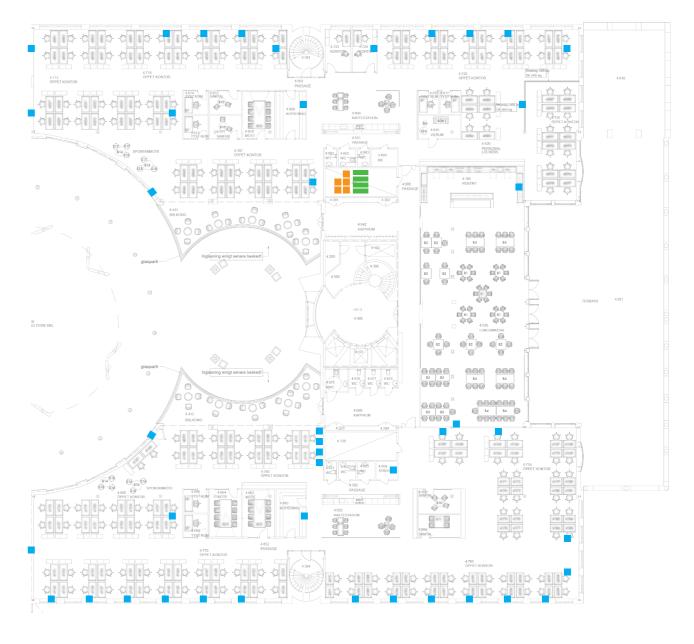
(Displays)

(Displays)

Banking Corporate Offices - Stockholm, Sweden

Information is money. NetworkHD™ was the preferred choice to help this banking company distribute important information to over 70 screens throughout their headquarter location.

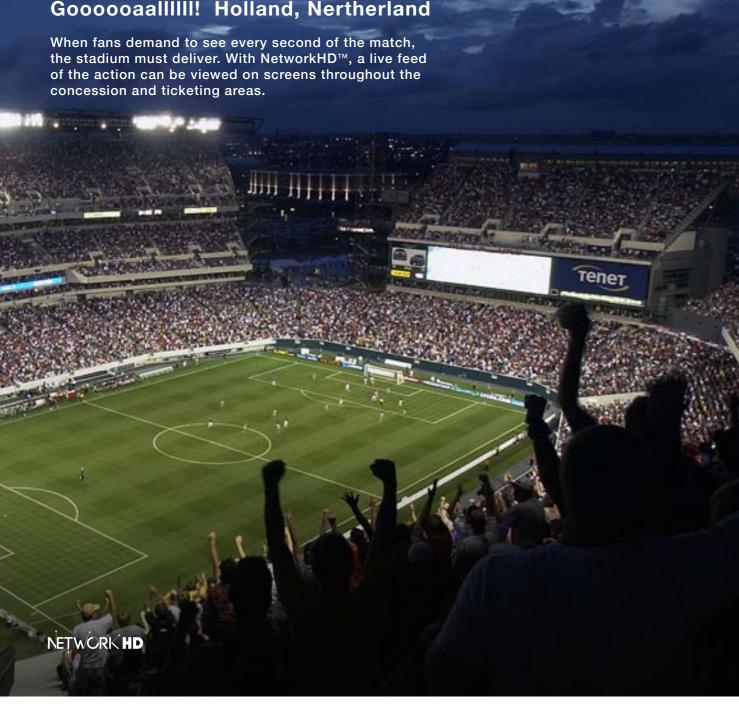
NETWORK HD

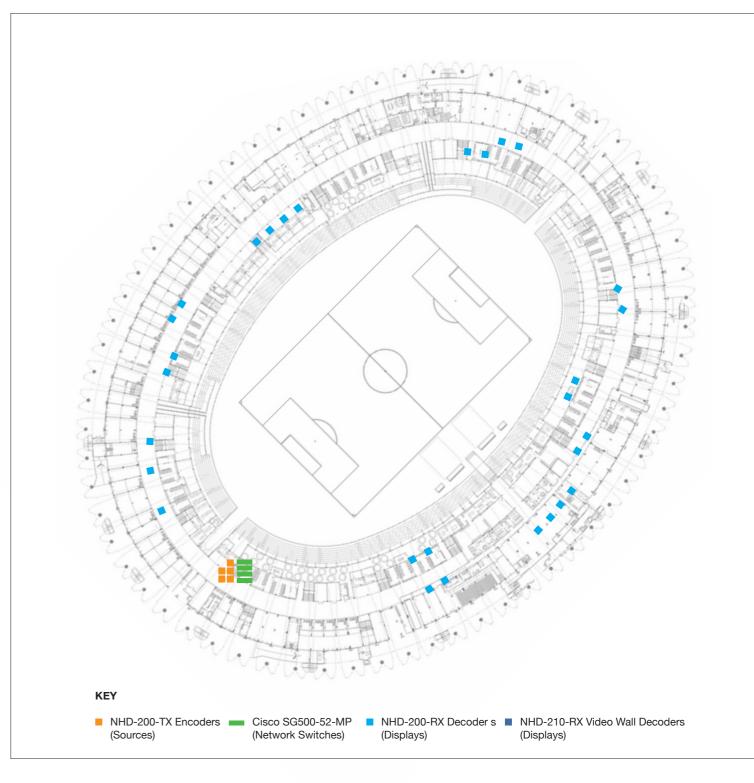


KEY

- (Sources)
- (Network Switches)
- (Displays)
- NHD-200-TX Encoders Cisco CATALYST 2960-X NHD-200-RX Decoder s NHD-210-RX Video Wall Decoders (Displays)

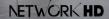
Goooooaallllll! Holland, Nertherland





Audi Dealership - Swindon, UK

The car doesn't sell itself. That's why this dealership relied on NetworkHD™ to provide an immersive video experience around the entire showroom.







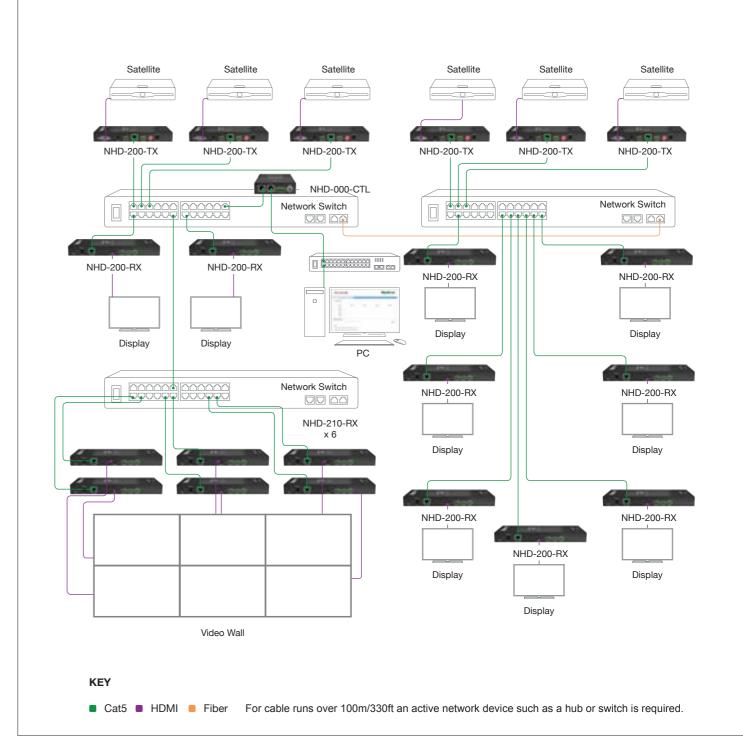
KEY

- (Sources)
- (Network Switches)
- (Displays)
- NHD-200-TX Encoders CISCO CISCO SG300-28P NHD-200-RX Decoders NHD-210-RX Video Wall Decoders (Displays)

Striders - Sports Bar - California, USA

With nine displays and a three by two video wall, this bar served up the perfect combination of NetworkHD™ 200 Series products. And with the Enado Control Solution, the entire wait staff had complete control of system.





NetworkHD™ 200-Series Encoder and Decoders:

The 200 Series products are used when one or more video walls are required in the system. The 200 Series also allows for additional input format options, including component video, DVI, composite and HDMI. The NHD-210-RX decoder unit is necessary for the video wall functionality.



Features

- · Highly scalable HD over IP solution with powerful video wall functionality (NHD-210-RX only) up to 4 x 4 displays
- · Multi-format DVI-I input selectable to HDMI, DVI, Component, VGA & Composite
- · Plug and Play setup with automatic networking configuration and discovery of all Encoders & Decoders
- Quick SyncTM technology for virtually instantaneous, seamless switching
- · Supports PoE, eliminating the need for a nearby power outlet
- CEC One-Touch Play & Standby or RS-232 control of connected displays
- Supports video previewing on a PC or mobile device
- Compatible control brands include AMX, Crestron, Control4, RTI & WyreStorm™ Enado

NHD-200-TX

Technical

 Input Video Ports: 1× DVI-I

 Input Video Type: HDMI, DVI 1.0, VGA, Component

 Input Video Resolutions:

640x480@60Hz upto 1920x1200@60Hz

640x480@60Hz up-to 1920x1200@60Hz

Component:

720x480p@60Hz, 720x576p@50Hz, 1280x720p@50Hz,

1280x720p@60Hz

H.264/MPEG-4 AVC

Input Video Signal: 0.5 ~ 1.2 V p-p

Encoding Data Rate: Up to 40Mbps, configurable

Output Video Ports: 1x 10/100 Ethernet

Output Video Type:

Output Video

Resolutions:

Large IP stream: 480p@60Hz~1920x1200@60Hz

Small IP stream: 352x288@5Hz

Video Impedance:

 Input DDC Signal: 5V p-p (TTL)

 End-to-End Time Latency:

· About 60ms-90ms (Low Latency mode) · About 250ms-300ms (High Quality mode)

1x 3.5mm Audio Jack Input Audio Ports:

Input Audio Format: Stereo

Output Audio Ports: 1x 3 pin Phoenix Connector

Output Audio Format: 2ch Stereo

Control

Rear panel source switch, PC configurator and RS-232 Control Method:

NHD-200-RX & NHD-210-RX

Technical

 Input Video Ports: Input Video Type: Input Video

· Resolutions:

Output Video Ports: 1x HDMI

 Output Video Resolutions:

· Video Impedance:

 End-to-End Time Latency:

 About 60ms-90ms (Low latency mode) About 250ms-300ms (High quality mode)

Input Audio Ports:

Output Audio Ports: 1x 3 pin Phoenix Connector

· Output Audio Format: 2ch Stereo

Control

· Control Method: NHD-000-CTL. NetworkHD™ Console Windows Software. Telnet IP API, Leading Control System Drivers

General

+32°F ~ +113°F (0°C ~ +45°C) 10% ~ 90% Operating Temperature: -4°F ~ 140°F (-20°C ~ +70°C) 10% ~ 90%, Storage Temperature: 12V DC 1A Power: · Power Consumption: 6W (Max.) ESD Protection Human body model: • ±8kV (air-gap discharge)

• ±4kV (contact discharge)

310mm x 76mm x 180mm / 12.2" x 3.0" x 7.1"

228mm x 25 mm x 111mm / 9'.0' x 1.0" x 4.4"

Voltage ±1 kV

Surge Protection:

 Case Dimensions (WxHxD): Product Dimensions (WxHxD):

 Weight: Certification:

CE, FCC, RoHS compliant

1× 10/100 Ethernet Input Video Ports: H.264/MPEG-4 AVC Input Video Type:

480p@60Hz~1920x1200@60Hz

 Output Video Type: HDMI 1.3. HDCP Compliant

480p@60Hz upto 1920x1200@60Hz

1x I AN

Input Audio Format: Audio embedded in streaming media input

Compatible control brands include AMX, Crestron, Control4, RTI & WyreStorm™ Enado

· Highly scalable HD over IP solution using the most efficient compression technology to allow for very large commercial AV deployments

NHD-100-TX **Technical**

Features

1× HDMI IN HDMI Input Video

Resolutions:

Supports video previewing on a PC or mobile device

640x480@60Hz upto 1920x1200@60Hz

NetworkHD™ 100 Series Encoder & Decoder:

100 Series products accommodate only HDMI.

Quick Sync™ technology for virtually instantaneous, seamless switching

CEC One-Touch Play & Standby or RS-232 control of connected displays

The 100 Series products are used with multi-source, multi-display

applications, without the need for a video wall. Source inputs on the

· Plug and Play setup with automatic networking configuration and discovery of all Encoders & Decoders

Supports PoE to enable remote powering from POE network switches, eliminating the need for a nearby power outlet

Input Video Signal: 0.5 ~ 1.2 V p-p

· Encoding Data Rate: Up to 40Mbps, configurable Output Video Ports: 1x 10/100 Ethernet Output Video Type: H.264/MPEG-4 AVC

 Output Video Resolutions:

Large IP stream: 480p@60Hz~1920x1200@60Hz Preview stream: 352x288@5Hz

· Video Impedance: 1000

 Input DDC Signal: 5V p-p (TTL) End-to-End Time

Latency: · About 60ms-90ms (Low Latency mode) · About 250ms-300ms (High Quality mode)

Input Audio Ports:

· Input Audio Format: Stereo

 Output Audio Ports: 1x 3 pin Phoenix Connector Output Audio Format: 2ch Stereo

Control

NHD-000-CTL, NetworkHD™ Console Windows Software. · Control Method: Telnet IP API, Leading Control System Drivers

General

+32°F ~ +113°F (0°C ~ +45°C) 10% ~ 90% · Operating Temperature: Storage Temperature: -4°F ~ 140°F (-20°C ~ +70°C) 10% ~ 90% Power: 12V DC 1A · Power Consumption: 6W (Max.) ESD Protection Human body model: • ±8kV (air-gap discharge) • ±4kV (contact discharge)

 Surge Protection: Voltage ±1 kV Case Dimensions (WxHxD): 310mm x 76mm x 180mm / 12.2" x 3.0" x 7.1"

 Product Dimensions (WxHxD): 200mm x 25 mm x 94mm / 7.9" x 1.0" x 3.7" Weight: 0.48Ka

 Certification: CE, FCC, RoHS compliant

NHD-100-RX

Technical

 Input Video Ports: 1× LAN Input Video Type: H.264/MPEG-4 AVC Input Video

 Resolutions: 480p@60Hz~1920x1200@60Hz Output Video Ports: 1x HDMI

 Output Video Type: HDMI 1.3, HDCP Compliant

 Output Video Resolutions: 480p@60Hz upto 1920x1200@60Hz

 Video Impedance: 100Ω End-to-End Time

Latency: About 60ms-90ms (Low latency mode) About 250ms-300ms (High quality mode)

 Input Audio Ports: Input Audio Format:

Audio embedded in streaming media input Output Audio Ports: 1x Phoenix Connector

· Output Audio Format: 2ch Stereo

Control

 Control Method: NHD-000-CTL, NetworkHD™ Console Windows Software, Telnet IP API, Leading Control System Drivers

General

 Operating Temperature: +32°F ~ +113°F (0°C ~ +45°C) 10% ~ 90% Storage Temperature: -4°F ~ 140°F (-20°C ~ +70°C) 10% ~ 90% Power: 12V DC 1A · Power Consumption: 6W (Max.) ESD Protection Human body model:

• ±8kV (air-gap discharge)

Voltage ±1 kV

• ±4kV (contact discharge)

Surge Protection:

Case Dimensions (WxHxD):

310mm x 76mm x 180mm / 12.2" x 3.0" x 7.1" Product Dimensions (WxHxD): 228mm x 25 mm x 111mm / 9'.0' x 1.0" x 4.4"

· Weight: Certification:

CE. FCC. RoHS compliant

Product Comparision

NHD 200 Series

NHD 100 Series







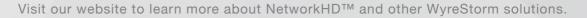


Products:	NHD-200-RX NHD-210-RX NHD-200-TX	NHD-100-RX NHD-100-TX
Recommended Applications	Commercial, residential with video wall	Residential and light commercial (no video wall)
Input Connector (Encoder)	DVI (HDMI Convertor Provided)	HDMI
Input Technology (Encoder)	HDMI 1.3, DVI 1.0, VGA, YPbPr	HDMI 1.3
Output Connector (Decoder)	HDMI	HDMI
Encoding Rate	Up to 40Mbps, configurable	Up to 40Mbps, configurable
Compression Technology	H.264 / MPEG-4 AVC	H.264 / MPEG-4 AVC
Video Resolutions	480p up to 1920x1200@60Hz	480p up to 1920x1200@60Hz
Audio Input (Encoder)	Stereo Mini and HDMI	HDMI only
Video Wall Capable	Yes (4x4 max)	No
QuickSync™ Technology	Yes	Yes
Audio Format	2ch (stereo)	2ch (stereo)
Audio Output (Phoenix Connector)	On Encoder and Decoder	On Encoder and Decoder
Control Methods	CEC, PC (LAN), NHD-000-CTL, RS-232 and third party control systems	CEC, PC (LAN), NHD-000-CTL, RS-232 and third party control systems
Support HDCP	Yes	Yes
PoE	Yes - 2 Way	Yes - 2 Way
Certification	CE, FCC, RoHS	CE, FCC, RoHS

About WyreStorm

WyreStorm is a leading manufacturer of audio/video distribution and control solutions, serving both commercial and residential markets throughout the world.

Our award-winning products include a comprehensive range of HDMI, HD over IP and HDBaseT products. We also offer the WyreStorm Enado™ Control System, an easy to configure and simple to use webserver-based control solution.





More Information



Contact Us

European Office:

Unit 22 Ergo Business Park Kelvin Road Swindon Wiltshire, SN3 3JW

+ 44 (0) 1793 230 343 Email: sales.uk@wyrestorm.com United States Office:

Tech Valley Park 23 Wood Road Round Lake, NY 12151

(518) 289-1293

Email: sales.us@wyrestorm.com

