

Education Brochure

Award-Winning Audio-Visual
Solutions Manufacturer





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About WyreStorm

WyreStorm, established in 1994 in Memphis, Tennessee, is a leading manufacturer of A/V signal management and unified collaboration solutions for both commercial and residential markets. With 50+ prestigious awards and strong partnerships with industry leaders like HDMI, HDBaseT, and SDVoE, our products are trusted in education, luxury homes, corporate settings, and sports arenas.

WyreStorm solutions are **Powerful. Reliable. Simple.**

Benefits

- Clear, Unbiased Advice
- Tailored Solutions
- Award Winning Manufacturer
- Global Network of Offices

3 3 international offices in the US, EU, and China Mainland

70+ Sales Network in over 70 countries and regions

35% 35%+ employees are R&D personnel

50+ 50+ global trade awards for products and projects

24/7 24x7 technical support & local services

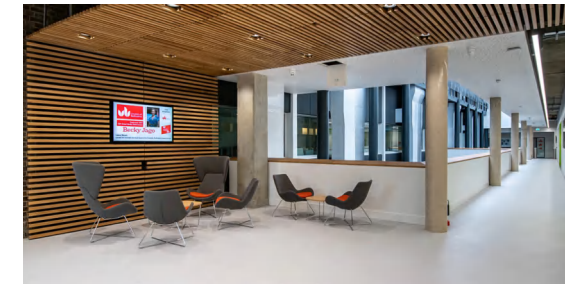
100% 100% international brand, globalization & localization

Case Studies



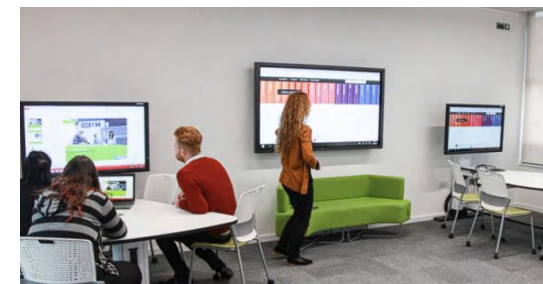
London Metropolitan University (United Kingdom)

Product Installed: AV over IP – NetworkHD 400 Series



Indiana University (United States)

Product Installed: AV over IP – NetworkHD 400 Series



University of Hertfordshire (United Kingdom)

Product Installed: AV over IP – NetworkHD 100/200 Series



Keele University (United Kingdom)

Product Installed: AV over IP – NetworkHD 400 Series



University of Sunderland (United Kingdom)

Product Installed: AV over IP – NetworkHD 500 Series



Masaryk University (Czech Republic)

Product Installed: AV over IP – NetworkHD 500 Series



WyreStorm Education Solutions

WyreStorm offers 6 comprehensive solutions to meet various audio-visual needs in education and professional settings. Whether you want to help students become professionals or gain a competitive edge, WyreStorm can make your vision a reality. By providing effective technology in higher education, both students and professors can reach their full potential.

Additionally, SYGMA Cloud Device Management streamlines device oversight across campuses and offices. With real-time monitoring, easy batch updates, and an intuitive interface for quick issue resolution, SYGMA keeps devices secure and up-to-date. This simplifies management for IT teams and teachers, fostering a more efficient, optimized environment for learning and professional growth.

Solution	Key Features	Main Products
Classroom Solutions	Interactive and flexible tools	MX-1007-HYB Matrix Switcher, SW-640L-TX-W Wireless Presentation System, MX-0402-MST Matrix Switcher
Auditorium/ Lecture Hall Solutions	High-quality audio and visual capabilities	MX-0812-SCL Matrix Switcher, MX-1007-HYB Matrix Switcher
Campus Solutions	Integrates throughout the campus	NHD-120-TX Encoder, NHD-120-RX Decoder
Lab Solutions	Integrates throughout the campus	NHD-500 Encoder, NHD-500 Decoder
eSports Lab Solutions	Immersive, professional-grade environment	NHD-600 Transceiver
Active Learning Space Solutions	Interactive and flexible tools	NHD-510-TX Encoder, NHD-500-RX Decoder



Classroom Solutions

This solution enhances the teaching experience in both tiered classrooms and smaller classrooms, creating a more engaging and effective learning environment for teachers and students. It includes equipment that supports interactive learning and a range of teaching methods, allowing seamless use for both instructors and students. Its flexibility adapts to different teaching styles, from lectures to group work, increasing student participation. Additionally, the user-friendly interface simplifies management for teachers, making it easy to fit any teaching approach.



Auditorium/ Lecture Hall Solutions

This solution is specifically designed for large lectures, meetings, and performances, providing an ideal audio-visual environment for audiences. It includes three categories that comprehensively meet your high-quality audio and video experience needs while ensuring flexible seating arrangements and configurations. The selected equipment supports multiple input sources and output options, and features an advanced control system for your easy management of the devices.



All-in-One Solution for Large Classroom

Simplify your classroom setup with an all-in-one solution designed for large teaching spaces or performance areas for 50-120 in-room students.

This all-in-one solution enhances the learning experience in large classrooms by integrating video, audio, and flexible control into a single system. The MX-1007-HYB simplifies the setup, eliminating the need for multiple external devices. It connects various video sources to displays or projectors, delivering vibrant 4K visuals for in-room students. With the ceiling speakers, it delivers immersive sound throughout the room. The intuitive touch control panel makes it easy for teachers to manage sources, adjust audio, and control presentations, creating a streamlined and interactive classroom environment for both students and teachers.

Key Features

4K 60Hz Deliver high-quality video resolution up to 4K@60Hz 4:4:4 8bit with the MX-1007-HYB presentation matrix.

Switch fast and seamlessly between sources like laptops, PCs, and document cameras.

Support full-featured USB-C input for video, audio, USB signal transmission, Ethernet delivery, and charging, all via a single cable.

Transmit audio and video signals over long distances of up to 100m (4K@60Hz).

Provide professional audio performance by integrating with built-in audio DSP, amplifiers, microphone systems, and ceiling speakers.

Simplify system control with touch panel collaboration, making it intuitive for professors and students to operate.

Monitor and manage the system remotely with SYGMA cloud management, streamlining tasks for integrators and IT managers.

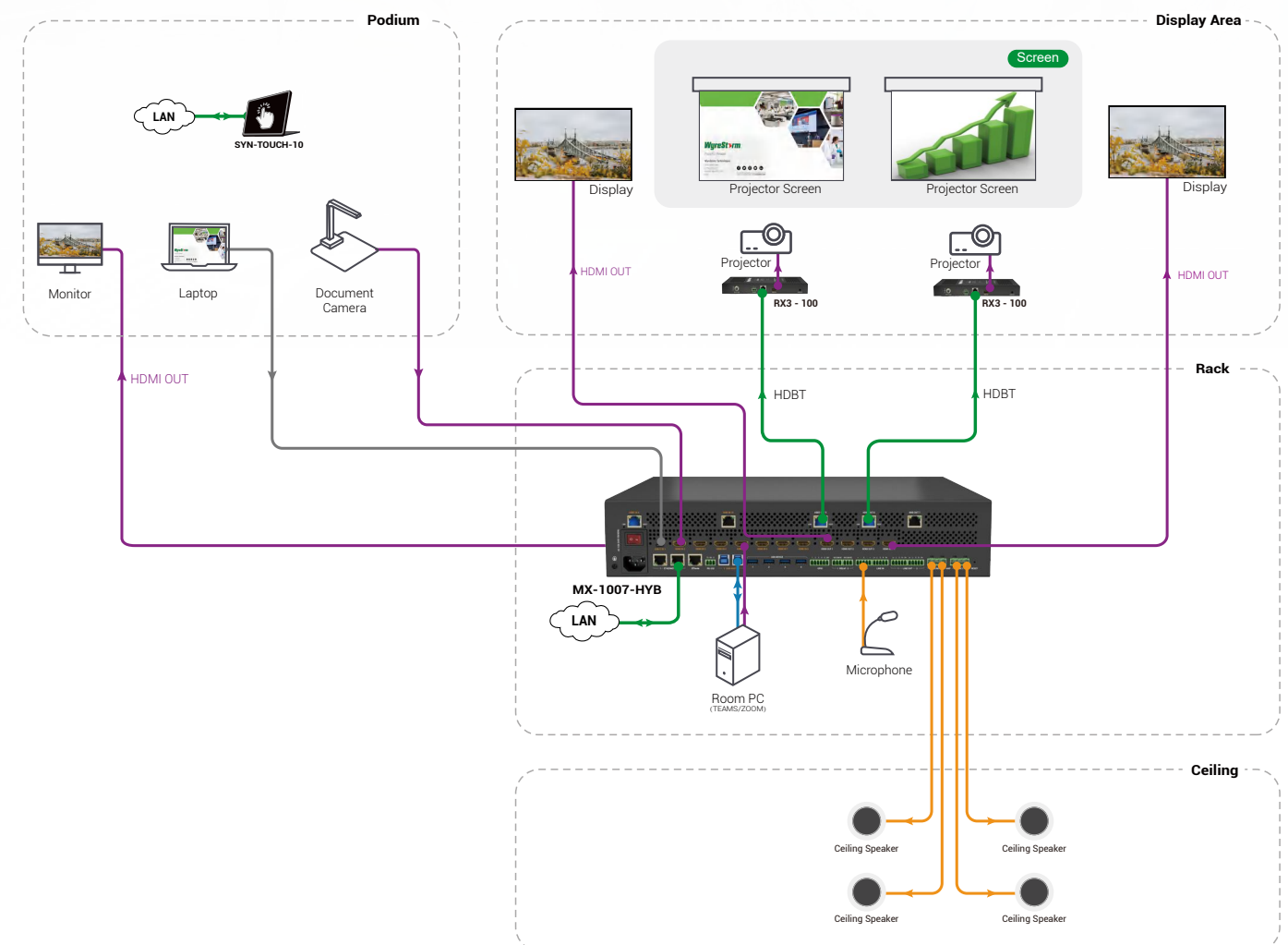
What's included in the solution?

Product Model No.	Quantity
MX-1007-HYB <i>You can click the product model name to visit the corresponding page.</i>	1
RX3-100	2
SYN-TOUCH10 	1

Typical Connection Diagram

Large classroom solution (All-in-one) —MX-1007-HYB

- * High-quality video up to 4K@60Hz 4:4:4 8bit;
- * Fast seamless switching with no black screen;
- * Full functional USB-C input;
- * Professional audio performance by built-in audio DSP;
- * Built-in amplifier supporting;
- * Flexible control by touch panel or 3rd controller;



Hybrid Solution for Large Classroom

Improve the learning experience with a smooth hybrid setup designed for a large teaching space or performance area for 50-120 students.

Designed for large classrooms, this hybrid solution ensures that both in-room and remote students can fully engage with the teaching content through clear visuals and audio. The MX-1007-HYB matrix switch connects multiple video sources (e.g. laptops, document cameras, and in-room PCs) to displays or projectors, providing vibrant 4K visuals for in-room students. Integrated USB support allows for seamless connection of devices like USB cameras and speakerphones, ensuring remote students can see and hear the content just as clearly as those in the room.

Key Features

- 4K 60Hz** Deliver high-quality video resolution up to 4K@60Hz 4:4:4 8bit with the MX-1007-HYB presentation matrix.
- Switch fast and seamlessly** between sources like laptops, PCs, and document cameras.
- Support full-featured USB-C input** for video, audio, USB signal transmission, Ethernet delivery, and charging, all via a single cable.
- 100M** Transmit audio and video signals over long distances of up to 100m (4K@60Hz).
- Provide professional audio performance** by integrating with built-in audio DSP, amplifiers, microphone systems, and ceiling speakers.
- Dante** Integrate effortlessly with Dante technology to ensure seamless compatibility with other Dante-enabled devices.
- Enable a perfect hybrid experience** with USB host functionality, supporting both local and remote USB hosts via HDBaseT transmitter and NHD-500-TX encoder.
- Connect USB devices** like cameras, speakerphones, keyboards, and mice while supporting mutual conversion between USB and DSP audio.
- Simplify system control** with touch panel collaboration, making it intuitive for professors and students to operate.
- Monitor and manage the system remotely** with SYGMA cloud management, streamlining tasks for integrators and IT managers.

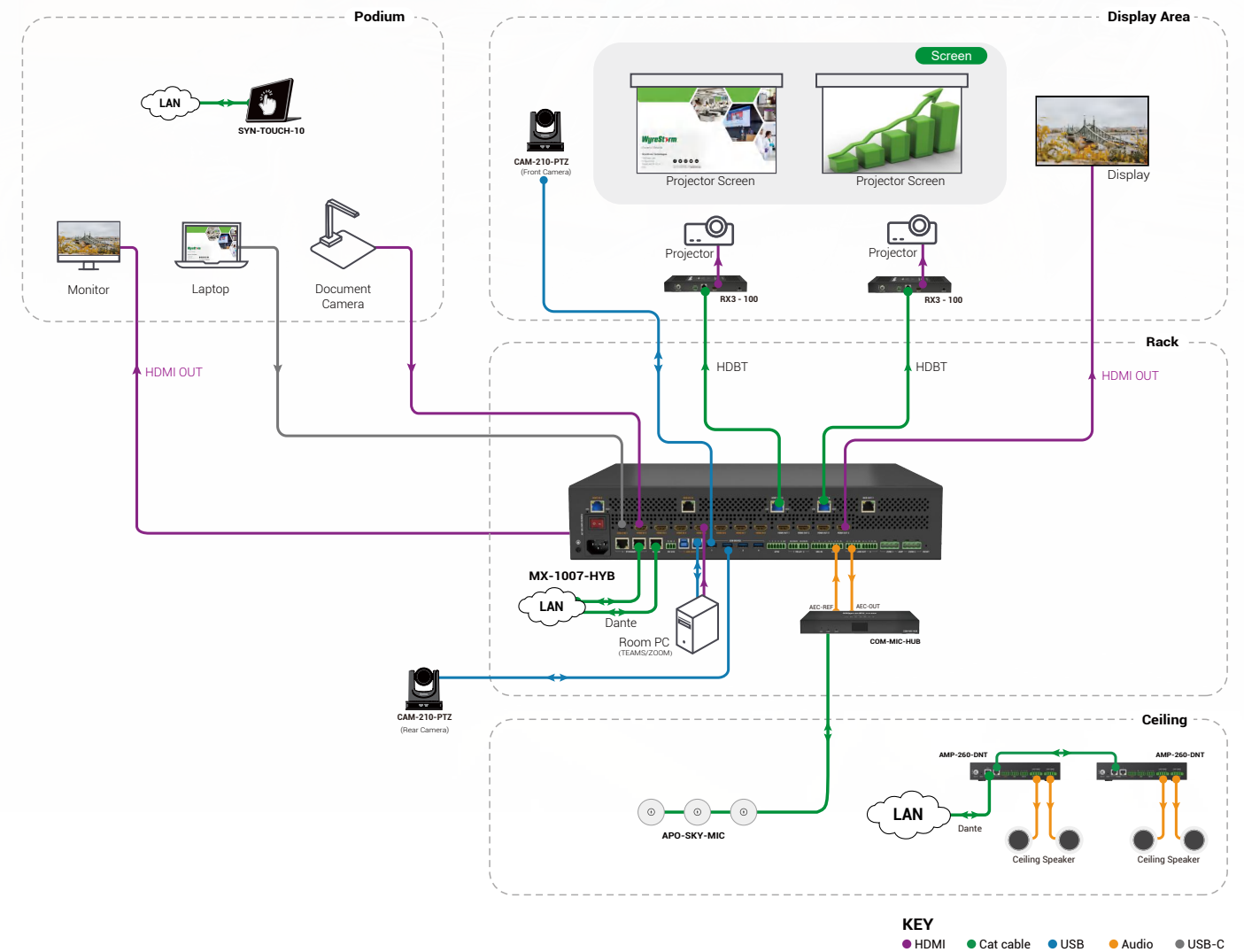
What's included in the solution?

Product Model No.	Quantity
<i>You can click the product model name to visit the corresponding page.</i>	
MX-1007-HYB	1
RX3-100	2
CAM-210-PTZ	2
COM-MIC-HUB	1
APO-SKY-MIC	3
AMP-260-DNT	2
SYN-TOUCH10	1

Typical Connection Diagram

Large classroom solution (Hybrid) — MX-1007-HYB

- * High-quality resolution up to 4K@60Hz 4:4:4 8bit
- * Fast seamless switching with no black screen
- * Full function USB-C input
- * Professional audio performance by built-in audio DSP
- * Audio transmission by Dante
- * KVM supporting, connecting with camera, keyboard and mouse ... which is perfect for Hybrid teaching & meeting
- * Flexible control by touch panel or 3rd controller



KEY
● HDMI ● Cat cable ● USB ● Audio ● USB-C

Budget Solution for Large Classroom

Improve the learning experience with a budget-friendly hybrid setup, designed for a large teaching space or performance area for 50-120 students.

Designed for large classrooms, this budget-friendly solution offers excellent value while ensuring both in-room and remote students can fully engage with content through clear visuals and high-quality audio. The MX-0804-EDC matrix switch connects multiple video sources (e.g., laptops, document cameras, in-room PCs) to displays or projectors, delivering vibrant 4K visuals for in-room students. Integrated USB support enables seamless connection of devices like USB cameras and speakerphones, ensuring remote students experience the content as clearly as those in the room. This solution can provide an engaging learning experience while staying within budget.

Key Features

- 4K 60Hz** Deliver high-quality video resolution up to 4K@60Hz 4:4:4 8bit with the MX-0804-EDC presentation matrix.
- Support full-featured USB-C input for video, audio, USB signal transmission, Ethernet delivery, and charging, all via a single cable.
- Integrate effortlessly with Dante technology to ensure seamless compatibility with other Dante-enabled devices.
- Connect USB devices like cameras, speakerphones, keyboards, and mice while supporting mutual conversion between USB and DSP audio.
- Monitor and manage the system remotely with SYGMA cloud management, streamlining tasks for integrators and IT managers.
- Switch fast and seamlessly between sources like laptops, PCs, and document cameras.
- Provide professional audio performance by integrating with built-in audio DSP, amplifiers, microphone systems, and ceiling speakers.
- Enable a perfect hybrid experience with USB host functionality by supporting local USB hosts.
- Simplify system control with touch panel collaboration, making it intuitive for professors and students to operate.

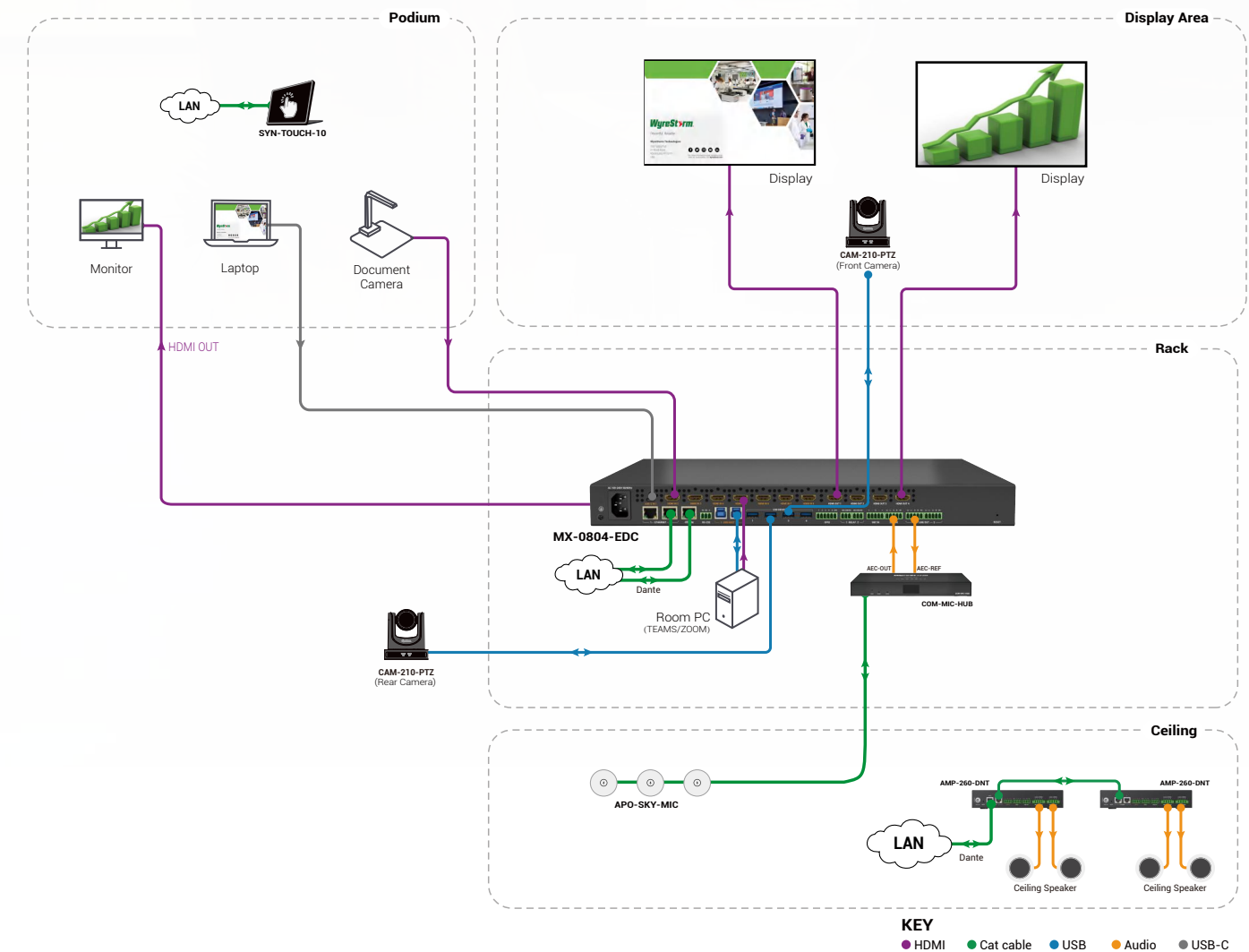
What's included in the solution?

Product Model No.		Quantity
<i>You can click the product model name to visit the corresponding page.</i>		
MX-0804-EDC		1
CAM-210-PTZ		2
COM-MIC-HUB		1
APO-SKY-MIC		3
AMP-260-DNT		2
SYN-TOUCH10		1

Typical Connection Diagram

Large classroom solution (Budget) —MX-0804-EDC

- * High-quality resolution up to 4K@60Hz 4:4:4 8bit
- * Fast seamless switching with no black screen
- * Full functional USB-C input
- * Professional audio performance by built-in audio DSP
- * Audio transmission by Dante technique
- * KVM supporting, connecting with camera, keyboard and mouse ... which is perfect for Hybrid teaching & meeting
- * Flexible control by touch panel or 3rd controller



Multi-Functional Solution for Medium/Small Classroom Space (Solution A)

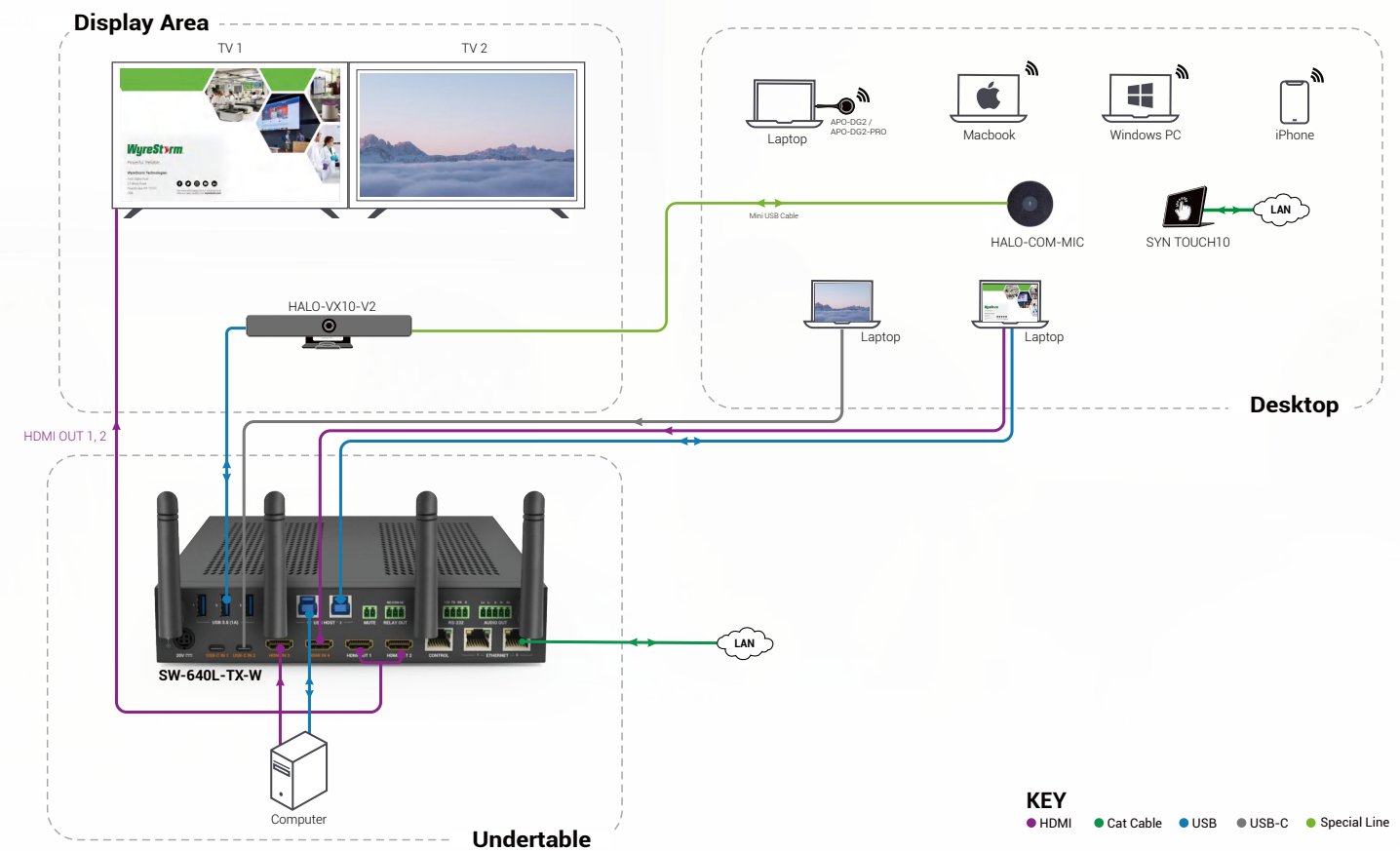
Wireless screen casting and dual-screen display simplify connections in hybrid learning settings, enabling a focus on important content discussions without complicated setup.

With our medium/small classroom solution, the SW-640L-TX-W 4K wireless presentation system provides high-quality video and a user-friendly experience for teachers and students. This setup allows teachers to deliver clear, engaging lessons with ease. Our solution covers various needs, including wireless casting, BYOD, and dual-screen support, ensuring flexible device connections for different learning styles. By promoting interactive learning, it engages both on-site and remote students, enhancing collaboration and participation.

Key Features

- Offers a variety of inputs, including USB-C and HDMI, ensuring compatibility with devices used in conferences, meetings, and educational settings.
- Displays up to 4 video sources simultaneously on one screen, ideal for data comparison or complex project collaboration.
- Offers various control methods, such as RS232, Relay, API, and Web-UI, enabling remote monitoring and control of the presentation system. Provides real-time access to system status, configuration, and performance.
- Independent de-embedding audio works seamlessly with external audio systems. When paired with a professional amplifier, speaker, and mic, it creates a more immersive audio experience for presenters and participants.
- Supports multiple presentation methods for classes or meetings, including Airplay mirroring, Miracast, and Dongle.
- The USB-C port provides power delivery, network, video, and USB transmission through a single cable, simplifying connections and maintaining a clean and tidy workspace.
- 4K 4K resolution guarantees sharp and clear video, delivering a fully immersive presentation experience.
- Includes USB 3.0 (Device and Host) ports for cameras, speakerphones, and keyboards. Perfect for hybrid meetings and education, it simplifies cable management and allows easy switching between devices using a single hub, streamlining workflows.
- Advanced Ethernet capabilities provide a reliable network environment, enhancing interactive experiences, especially during hybrid meetings and education. Ethernet Bridge and Ethernet Isolation ensure a stable and secure usage experience.

Typical Connection Diagram



What's included in the solution?

Product Model No.	Quantity
<i>You can click the product model name to visit the corresponding page.</i>	
SW-640L-TX-W	1
HALO-VX10-V2	1
APO-DG2/APO-DG2 PRO	1
HALO-COM-MIC	1
SYN-TOUCH10	1

Multi-Functional Solution for Medium/ Small Classroom Space (Solution B)

Transform Your Classroom with 4x2 HDMI/USB-C Matrix and MTR Integration for Unmatched Versatility and Performance.

The MX-0402-MST 4x2 HDMI/USB-C matrix is ideal for small/medium classrooms, delivering high-quality 4K video, dual USB-C inputs, and seamless MST technology for dual displays. By integrating MTR (Microsoft Teams Room), you can enhance flexibility and efficient collaboration. Connecting MTR to two HDMI IN ports centralizes video and audio control, while the USB-C connection simplifies the setup by allowing video, audio, Ethernet, USB, and power transmission through a single cable. For small classrooms, the HALO-VX10-V2 video bar can replace the audio systems and PTZ camera used in the medium classroom solution. Regardless of room size, you can ensure professional audio performance and a streamlined setup.

Key Features

- 4K** Deliver high-quality video performance, up to 4K@60Hz.
- Utilize 2x USB-C inputs for all-in-one transmission (video, audio, Ethernet, USB, and power supply).
- Experience a fully integrated video meeting with MTR, ensuring seamless collaboration through Microsoft Teams.
- Support dual displays and MST technology for flexible video selection.
- Offer powerful Ethernet capabilities with 2x Ethernet ports for Ethernet bridging and isolation, plus USB Hosts for Ethernet pass-through.
- Include a built-in USB 3.0 port for connecting video bars, standard USB cameras, and speakerphones, enhancing the teaching experience.
- Provide comprehensive USB functionality (USB Hosts + USB Devices).

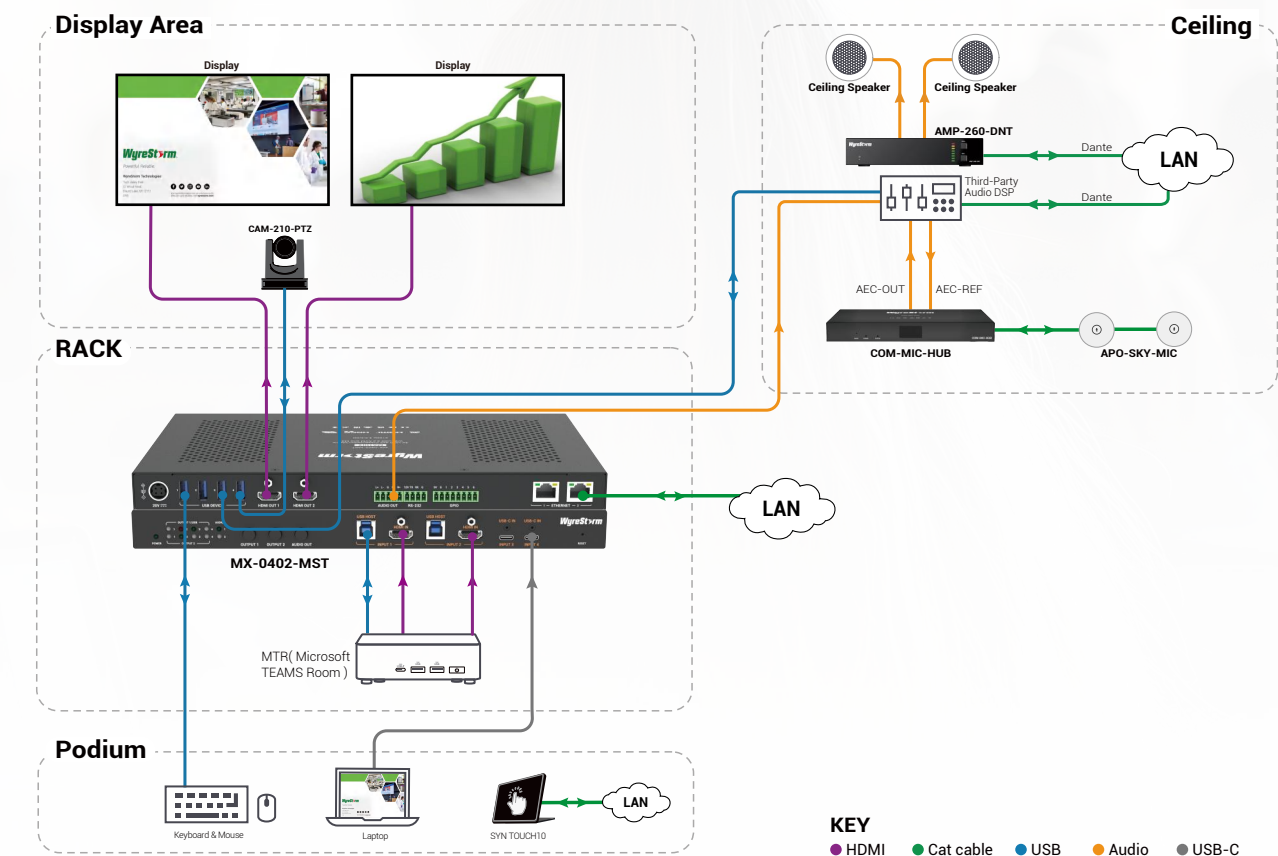
What's included in the solution?

Product Model No.	Quantity
<i>You can click the product model name to visit the corresponding page.</i>	
MX-0402-MST	1
MTR (Microsoft TEAMS Room)	1
SYN-TOUCH10	1
AMP-260-DNT	1
COM-MIC-HUB	1
APO-SKY-MIC	2
CAM-210-PTZ	1

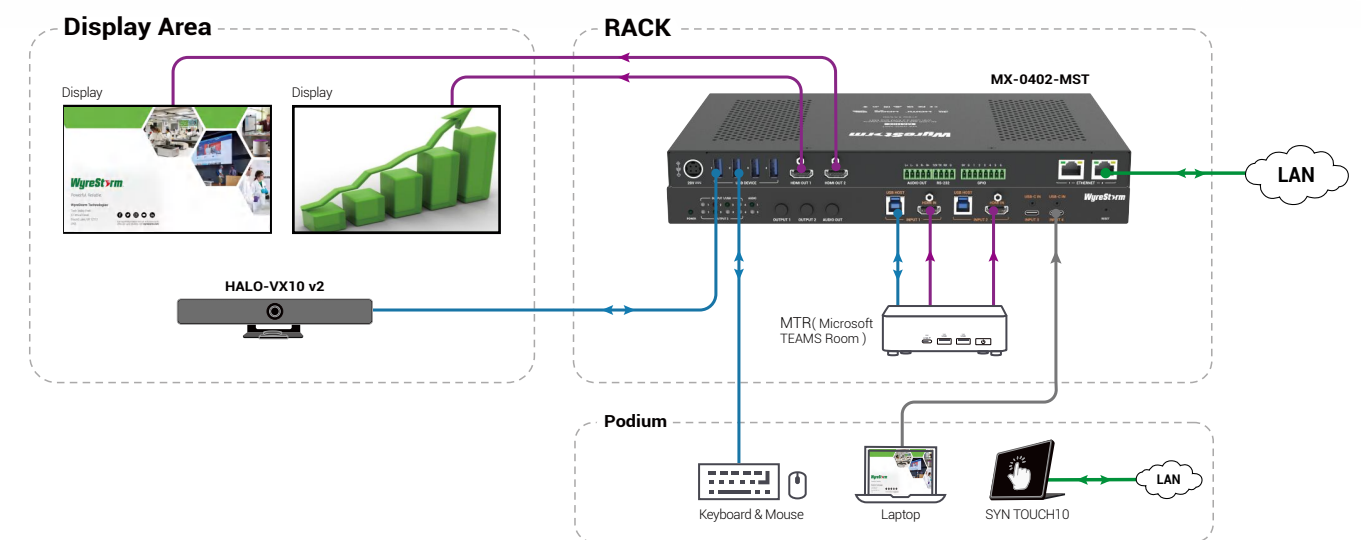
Note: The products listed above are designed for medium classrooms. For small classrooms, you can just use MX-0402-MST, MTR, SYN-TOUCH10, and HALO-VX10-V2 video bar.

Typical Connection Diagram

Medium & Multi-Functional Classroom Solution
MX-0402-MST (With MTR)



Small Multi-Functional Classroom Solution
MX-0402-MST (With MTR)



Budget Solution for Small/Medium Classroom Space

Streamline teaching with the SW-130-TX transmitter and RX-500 receiver, enabling flexible source switching and content delivery to a classroom display or projector, perfect for in-room and hybrid learning.

With our budget-friendly solution, teachers can switch sources effortlessly via the wallplate transmitter, supporting up to 4K resolution and ensuring smooth integration with a classroom display/projector. Integrated USB 2.0 ports for webcams and speakerphones make interactive lessons simple. Students enjoy clear visuals and seamless collaboration. The hybrid solution enhances remote teaching with a camera and a speakerphone, ideal for connecting with remote students. Meanwhile, the standard solution offers a simpler setup for in-room teaching, ensuring ease of use and reliability.

Key Features

Support a wide range of inputs, including 1x USB-C and 2x HDMI, enabling compatibility with devices commonly used in educational environments. Switch easily between different input interfaces.

Transmit 2160P (4:2:0) 60Hz HDR content from a source to a display or projector via HDBaseT, reaching up to 35m/115ft. Adapt to various spatial layouts with ease.

4K Deliver 4K resolution for sharp and clear video, perfect for presentations. Support multiple audio formats to create an immersive experience.

Equip 4x USB 2.0 (Device) ports for connecting cameras, speakerphones, and keyboards, making it ideal for hybrid meetings and educational setups.

Offer versatile control options, including automatic switching, manual switching, CEC trigger, and RS232 control, ensuring seamless integration and flexible operation across diverse applications.

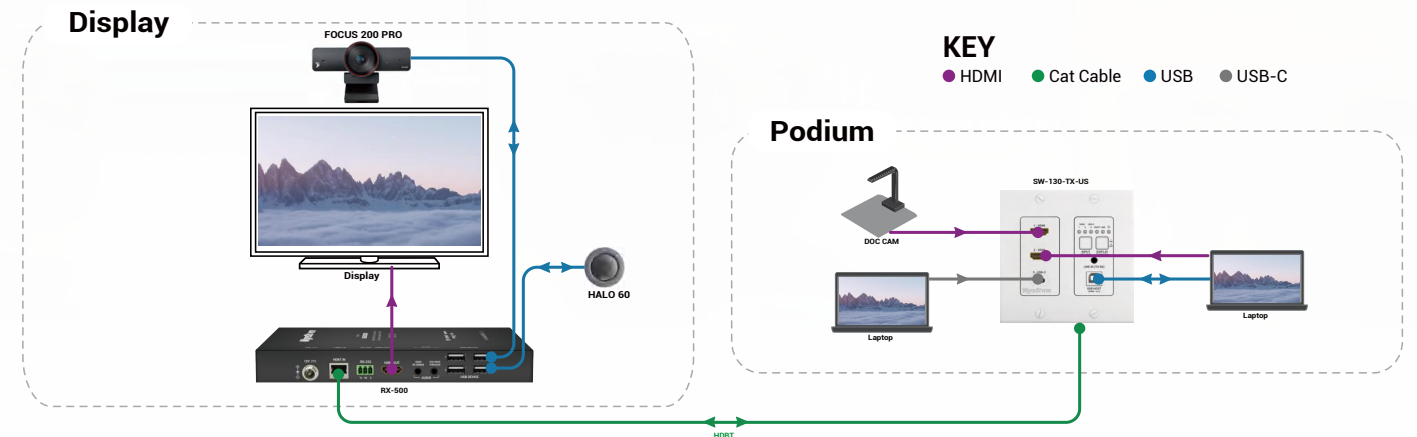
What's included in the solution?

Product Model No.		Quantity
<i>You can click the product model name to visit the corresponding page.</i>		
SW-130-TX-US		1
RX-500		1
FOCUS 200 PRO*		1
HALO-60*		1

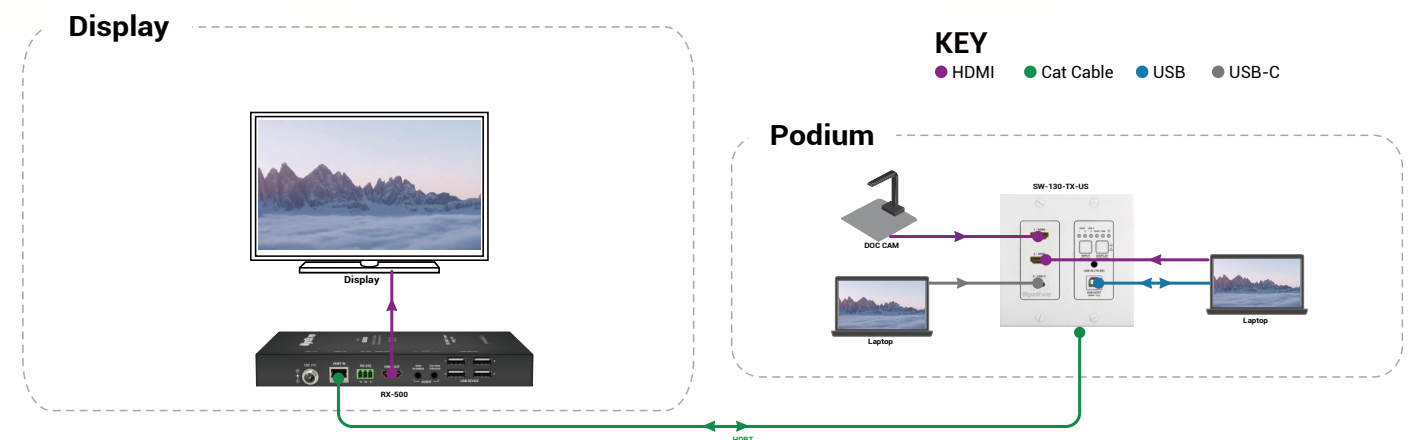
*The standard solution comprises the SW-130-TX-US transmitter and the RX-500 receiver, while the hybrid solution additionally comprises the FOCUS 200 PRO webcam and the HALO 60 speakerphone.

Typical Connection Diagram

Plug-and-play, Small & Medium Classroom
SW-130-TX & RX-500 (Budget:Hybrid)



Plug-and-play, Small & Medium Classroom
SW-130-TX & RX-500 (Budget:Standard)



Distributed AV over IP Solution for Divisible Classroom

Configure your classroom's AV setup effortlessly with intelligent network control system for flexible teaching environments.

This intelligent distributed AV over IP solution allows quick switching between large and small classroom configurations without adjusting network setups. Key components include ceiling-mounted projectors, cameras, and podium devices. Classrooms can be flexibly divided or combined using NHD-Touch, enhancing teaching flexibility and convenience. The user-friendly system streamlines scenario switching, enabling teachers to manage devices easily and improve classroom interactivity and effectiveness. Both in-room and remote students can clearly see the teaching content.

Key Features

4K 60Hz Distribute 4K@60Hz content on any display with NetworkHD encoders/decoders.

Experience automatic source switching between HDMI and USB-C inputs on NHD-510-TX.

Utilize the full-featured USB-C port on NHD-510-TX for seamless transmission of video, audio, USB, Ethernet, and power delivery.

Experience fast and seamless switching between various sources like laptops, room PCs and document cameras, etc.

Easily configure and manage all the NetworkHD devices with the NHD-CTL-PRO IP controller via the user-friendly web UI.

Easily configure the system by downloading the NetworkHD Touch App on a tablet and pairing it with the NHD-CTL-PRO.

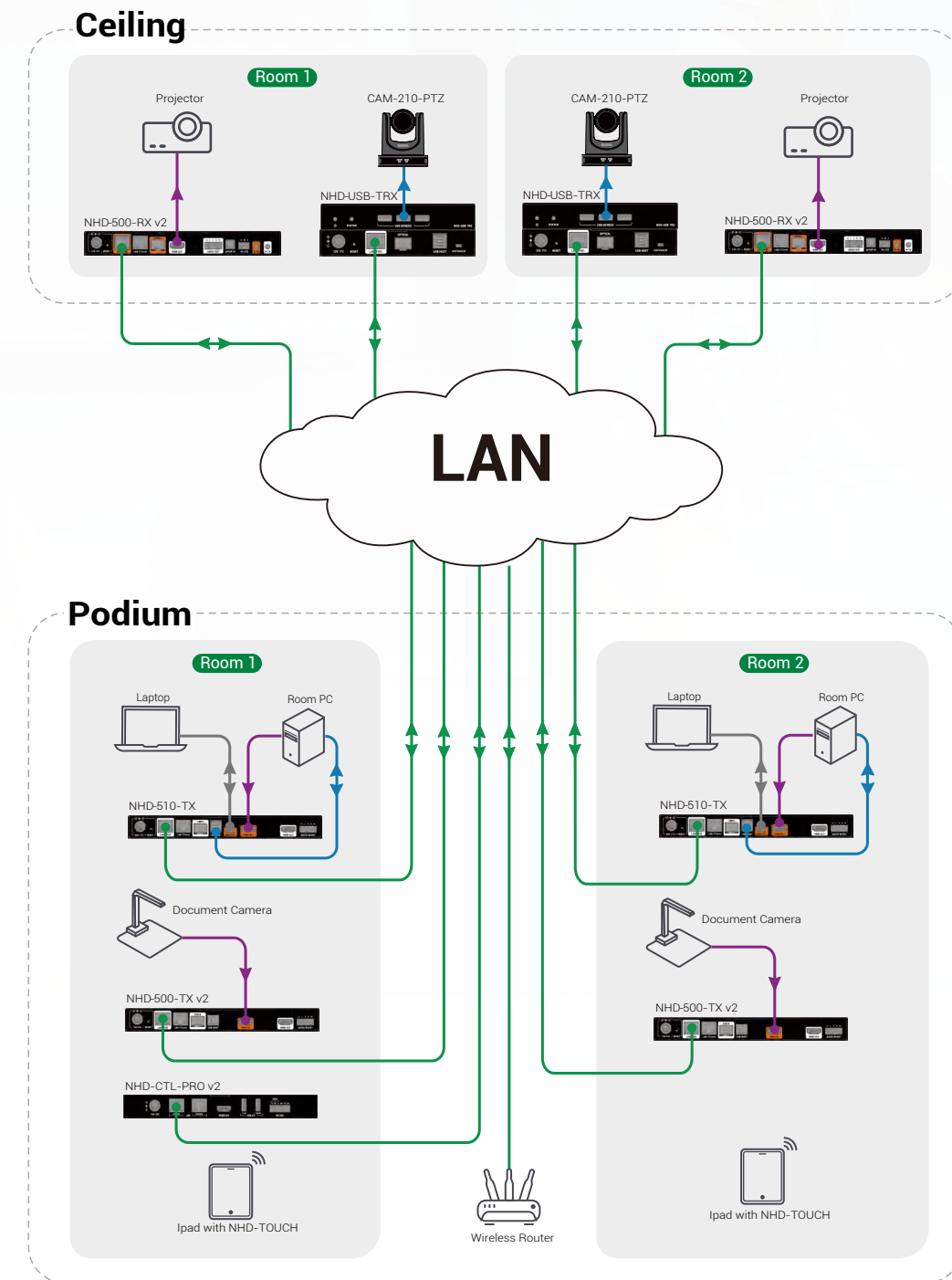
Connect laptops, document cameras, and room PCs for versatile content sharing.

Control different small classrooms or the merged large classroom without changing the device network setup.

What's included in the solution?

Product Model No.	Quantity
<i>You can click the product model name to visit the corresponding page.</i>	
NHD-510-TX	2
NHD-500-TX v2	2
NHD-500-RX v2	2
NHD-USB-TRX	2
CAM-210-PTZ	2
NHD-CTL-PRO v2	1
NHD-TOUCH	2

Typical Connection Diagram



KEY

● HDMI ● Ethernet ● USB ● USB-C

Typical Solution for Auditorium & Lecture Hall

Enhance the learning experience with an engaging environment in a large teaching space or performance area for 50-200 students.

With our typical auditorium & lecture hall solution, large teaching spaces are transformed into dynamic learning environments. The MX-0812-SCL 8x12 matrix links different video sources to a video wall or displays, giving in-room students clear, engaging visuals. Combined with Dante audio systems and speakers, it ensures high-quality sound and visuals to keep students focused. The simple touch panel lets teachers easily manage presentations, videos, and audio, making the classroom more interactive and enjoyable for students.

Key Features

- Achieve high-quality video resolution up to 4K@60Hz 4:4:4 8-bit with the MX-0812-SCL matrix, delivering clear and detailed visuals.
- Support video wall functionality to display detailed information on large screens, ensuring clear visibility for all.
- Integrate Dante technology for smooth compatibility with other Dante audio devices.
- Enable a perfect hybrid experience with USB host functionality by supporting local USB hosts.
- Control the system easily with an intuitive touch panel, allowing teachers and students to manage all functions.
- Experience fast, seamless switching between various sources like laptops, PCs, and document cameras.
- Support multiple video wall capabilities:
 - a) Support creating multiple windows in a video wall, and each window can select different video inputs independently;
 - b) Support video wall layout switching;
 - c) Each HDMI output label OSD for easy installation.
- Connect USB devices like cameras, speakerphones, keyboards, and mice, while enabling mutual conversion between USB and DSP audio.
- Monitor and operate the system remotely with integrated SYGMA cloud management for integrators and IT managers.

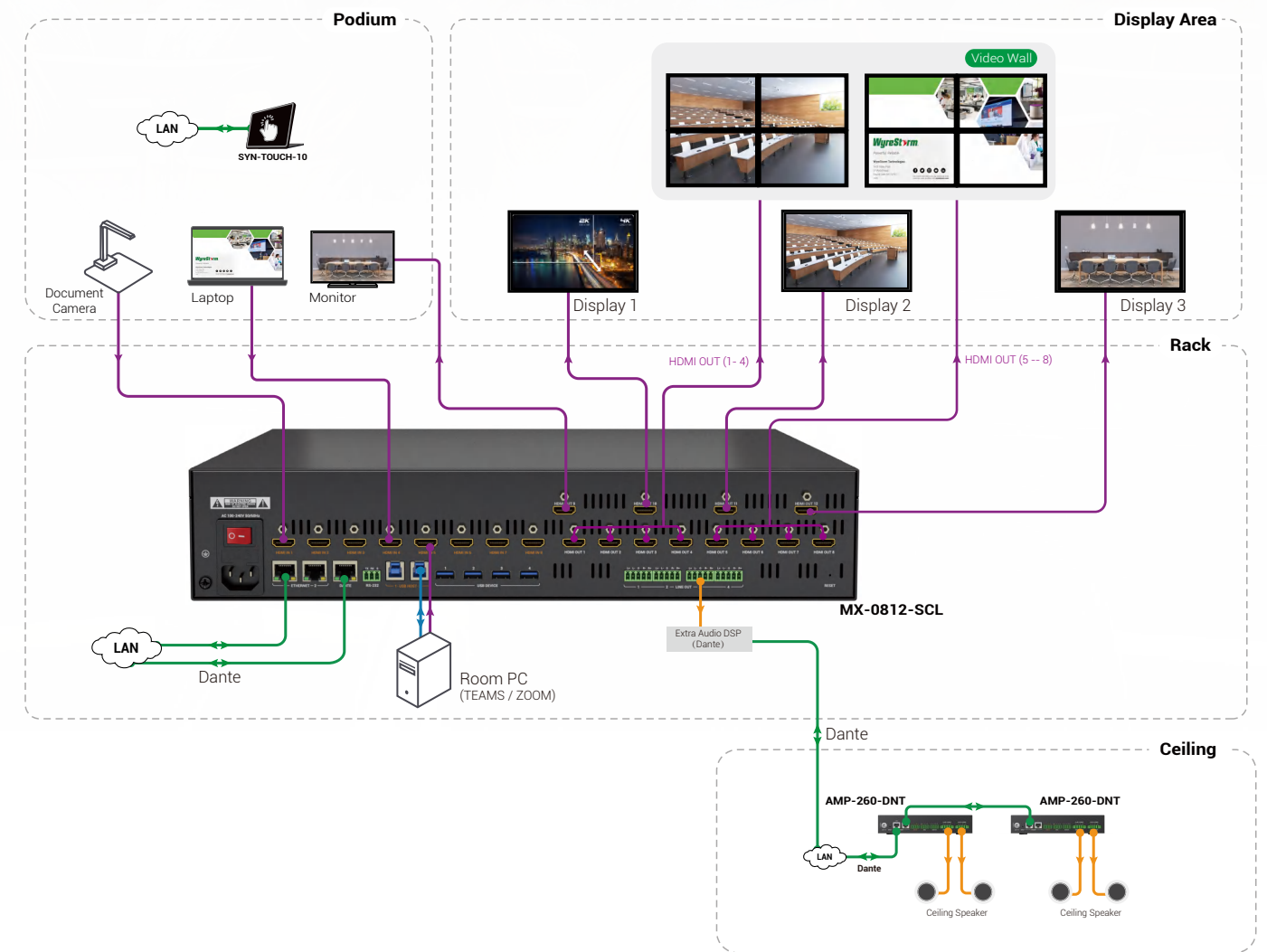
What's included in the solution?

Product Model No.	Quantity
<i>You can click the product model name to visit the corresponding page.</i>	
MX-0812-SCL	1
AMP-260-DNT	2
SYN-TOUCH10	1

Typical Connection Diagram

Auditorium & Lecture Hall solution — MX-0812-SCL

- * High-quality video up to 4K@60Hz 4:4:4 8bit
- * VideoWall supporting for a better viewing
- * Audio transmission by Dante



Hybrid Solution for Auditorium & Lecture Hall

Enhance the learning experience with a seamless hybrid environment in a large teaching space or performance area for 50–200 students.

With our hybrid auditorium & lecture hall solution, both in-room and remote students can easily follow the teaching content with clear visuals and audio. The MX-1007-HYB matrix switch connects multiple video sources (e.g. laptops, document cameras, and in-room PCs) to displays or projectors, providing in-room students with clear, vibrant 4K visuals. Integrated USB support enables connection of devices such as USB cameras and speakerphones, ensuring remote students can also see and hear the teaching content clearly. Paired with Dante audio systems and ceiling speakers, it ensures high-quality sound across the room, keeping students attentive and engaged. The intuitive touch control panel allows teachers to effortlessly switch sources, control audio, and manage presentations, creating a more interactive and enjoyable classroom experience.

Key Features

- 4K
60Hz
Deliver high-quality video resolution up to 4K@60Hz 4:4:4 8bit with the MX-1007-HYB presentation matrix.
- 100M
Support full-featured USB-C input for video, audio, USB signal transmission, Ethernet delivery, and charging, all via a single cable.
- Dante
Provide professional audio performance by integrating with external audio DSPs, amplifiers, microphone systems, and ceiling speakers.
- Dante
Integrate effortlessly with Dante technology to ensure seamless compatibility with other Dante-enabled devices.
- USB-C
Enable a perfect hybrid experience with USB Host functionality, supporting both local and remote USB hosts via HDBaseT transmitter and NHD-500-TX encoder.
- USB
Connect USB devices like cameras, speakerphones, keyboards, and mice while supporting mutual conversion between USB and DSP audio.
- Cloud
Simplify system control with touch panel collaboration, making it intuitive for professors and students to operate.
- Cloud
Monitor and manage the system remotely with SYGMA cloud management, streamlining tasks for integrators and IT managers.

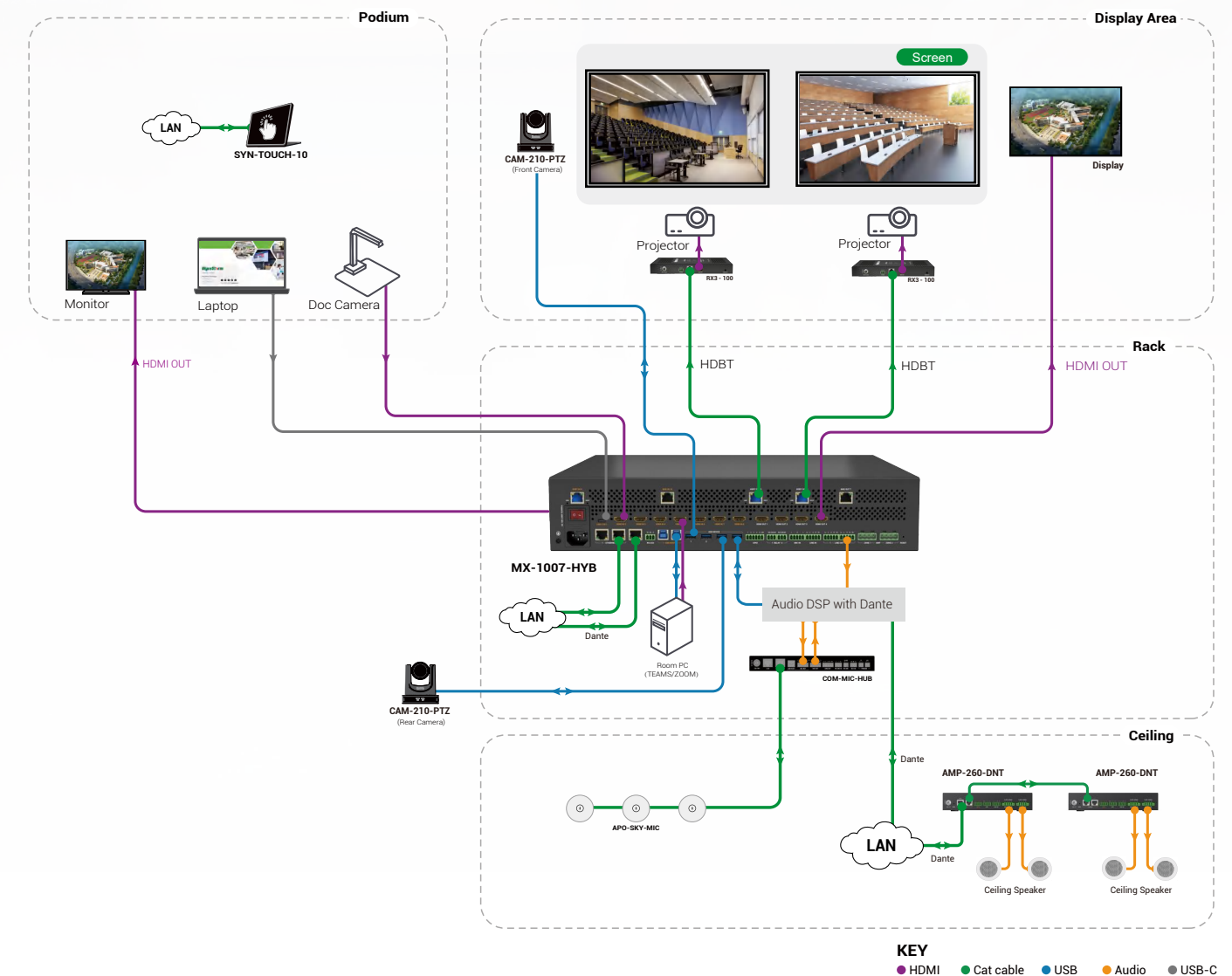
What's included in the solution?

Product Model No.	Quantity
MX-1007-HYB <small><i>You can click the product model name to visit the corresponding page.</i></small>	1
RX3-100	2
CAM-210-PTZ	2
COM-MIC-HUB	1
APO-SKY-MIC	3
AMP-260-DNT	2
SYN-TOUCH10	1

Typical Connection Diagram

Auditorium & Lecture Hall solution – MX-1007-HYB

- * High-quality video up to 4K@60Hz 4:4:4 8bit;
- * Fast seamless switching with no black screen;
- * Full functional USB-C inputs;
- * Long-distance transmission up to 100m (4K@60Hz);
- * Professional audio performance;
- * Audio transmission by Dante;
- * Perfect Hybrid teaching & meeting;
- * Flexible control by Touch panel or 3rd controller;



KEY
● HDMI ● Cat cable ● USB ● Audio ● USB-C

Distributed IP Matrix Solution for Auditorium & Lecture Hall

Enhance the learning experience with an engaging environment in a large teaching space or performance area for 50-200 students.

With the distributed IP matrix solution for auditorium & lecture hall, large teaching spaces become dynamic learning environments. The NetworkHD encoders and decoders send various video sources to a video wall or displays, providing clear, engaging visuals for in-room students. Integration of local and remote audio systems with our MICBOX, amplifier, and third-party audio devices ensures high-quality sound to keep students engaged. The simple touch panel allows teachers to easily control presentations, videos, and audio, creating a more interactive and enjoyable classroom experience.

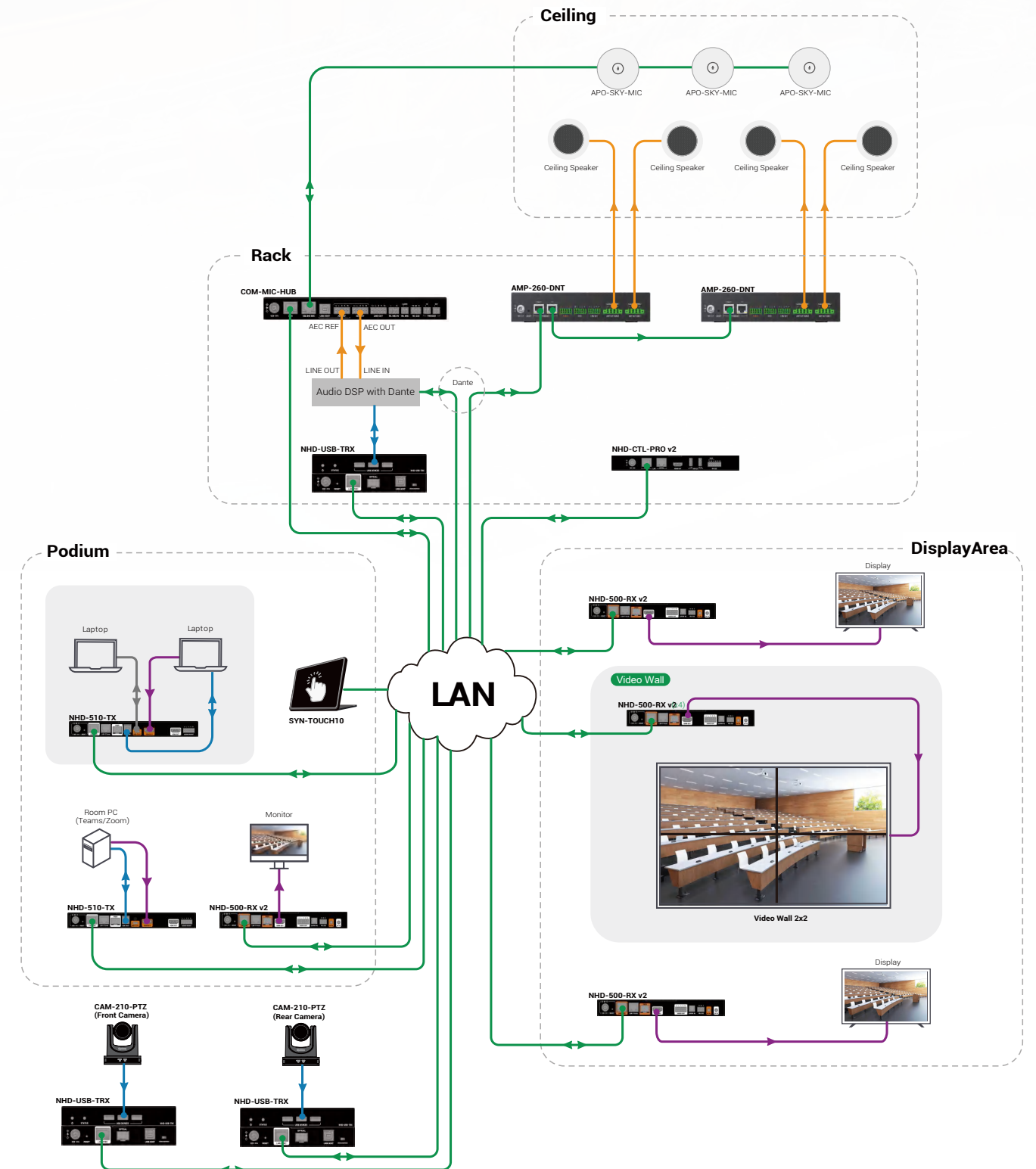
Key Features

- 4K 60Hz** Distribute 4K60 content to any display with NetworkHD encoders/decoders, delivering an ultra-low latency of just 4ms for a smooth and seamless experience.
- Support video wall functionality** to display detailed information on large screens, ensuring clear visibility for all.
- Dante** Integrate Dante technology for smooth compatibility with other Dante audio devices.
- Support hybrid teaching with USB 2.0 function** for connecting cameras, speakerphones, keyboards, and mice.
- Control the system easily with an intuitive touch panel**, allowing teachers and students to manage all functions.
- Experience fast and seamless switching** between various sources like laptops, Room PCs and document cameras, etc.
- Utilize the full-featured USB-C port on NHD-510-TX** for seamless transmission of video, audio, USB, Ethernet, and power delivery.
- Provide a professional audio experience with the COM-MIC-HUB** when paired with external audio systems (Audio DSP, speakers).
- Easily configure and manage all the NetworkHD devices with the NHD-CTL-PRO IP controller** via the user-friendly web UI.

What's included in the solution?

Product Model No.	Quantity
<i>You can click the product model name to visit the corresponding page.</i>	
NHD-510-TX	2
NHD-500-RX v2	7
NHD-USB-TRX	3
AMP-260-DNT	2
COM-MIC-HUB	1
APO-SKY-MIC	3
CAM-210-PTZ	2
NHD-CTL-PRO v2	1
SYN-TOUCH10	1

Typical Connection Diagram



KEY
 ● HDMI ● Cat Cable ● USB ● Audio ● USB-C

Distributed AV over IP Solution for Campus

Enhancing campus interactions and information sharing with our comprehensive and versatile audiovisual solution.

With this distributed AV over IP solution, multimedia devices like computers, DVD players, and cameras are centrally managed from the equipment room, allowing direct control from the control room. This setup supports multiple input source switching, catering to various event needs. TVs in open spaces offer a flexible platform for communication and presentations. The user-friendly control system ensures easy management and quick content switching, providing an optimal user experience for both students and staff. This system efficiently supports events of all sizes, meeting diverse campus requirements.

Key Features

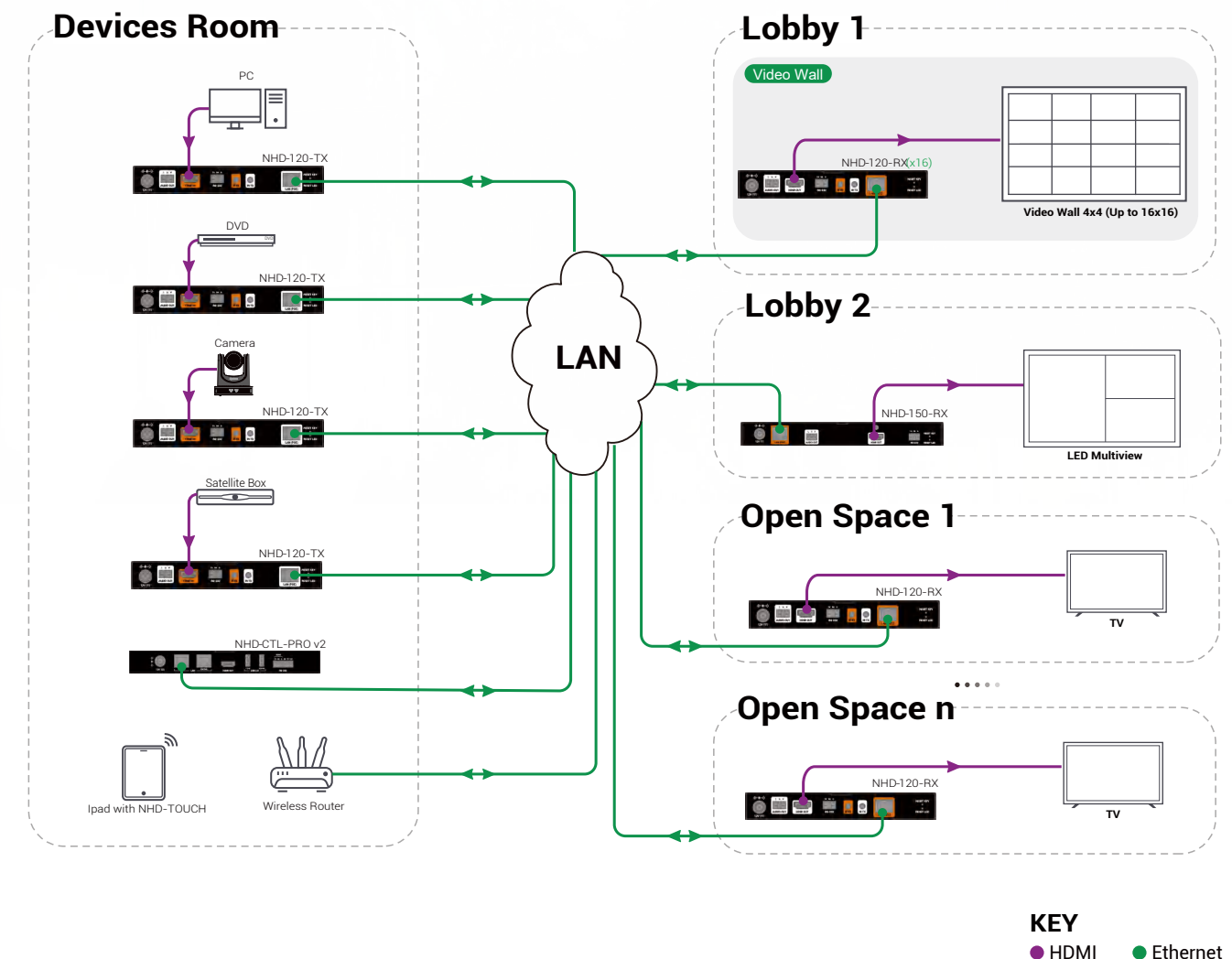
- Paired with the NHD-150-RX, it supports multiview output and connected to LED large screens to display more information.
- Easily configure the system by downloading the NetworkHD Touch App on a tablet and pairing it with the NHD-CTL-PRO.
- Easily configure and manage all NetworkHD devices with the NHD-CTL-PRO IP controller via a user-friendly web UI.
- Supports video wall functionality to display detailed information on large screens, ensuring clear visibility for everyone. It supports up to a 16x16 video wall.
- Distribute 4K@30Hz content on any display using NetworkHD encoders/decoders.
- Connect computers, DVD players, cameras, and set-top boxes for versatile content sharing.

What's included in the solution?

Product Model No.	Quantity
<i>You can click the product model name to visit the corresponding page.</i>	
NHD-120-TX	4
NHD-120-RX	18*
NHD-150-RX	1
NHD-CTL-PRO v2	1
NHD-TOUCH	1

*Note: More NHD-120-RX units can be added based on the actual needs of the open space.

Typical Connection Diagram



Distributed AV over IP Solution for eSports Lab

Enhancing eSports experiences with a zero-latency, lossless video transmission system.

This solution provides a lossless, zero-latency video transmission system designed for esports. It simplifies network setup, reducing complexity and enhancing the gaming experience for players and viewers. The system supports real-time video signal transmission between player stations and the shoutcaster station. Each player has an independent monitor and necessary input devices, while the shoutcaster station features high-definition cameras and multi-media devices. With minimal networking equipment, the system is easy for event organizers to set up and maintain, boosting the professionalism and engagement of esports competitions.

Key Features

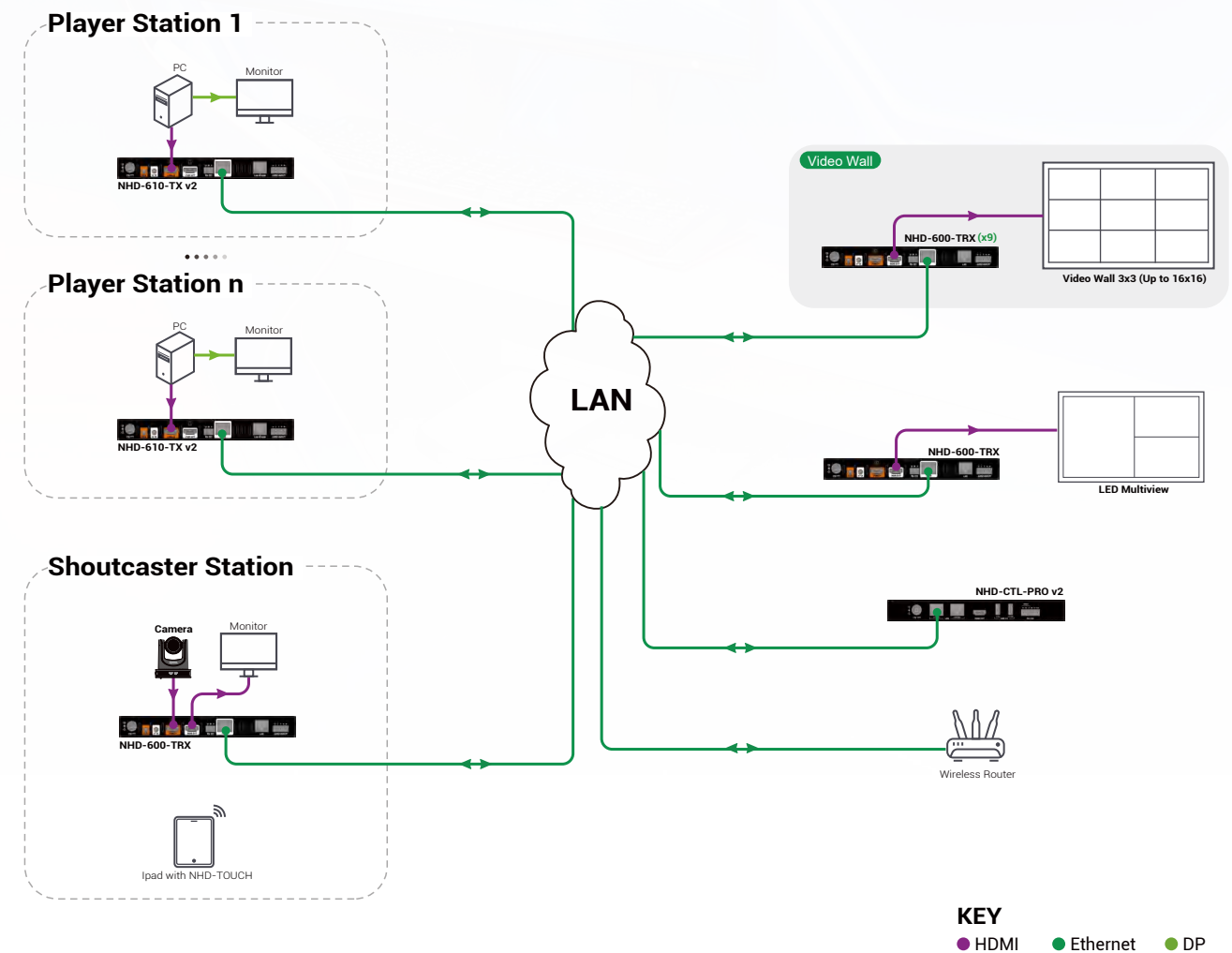
- 4K 60Hz** Distribute 4K@60Hz 4:4:4 8bit content on any display using NetworkHD encoders/decoders.
- Support high dynamic range formats such as Dolby Vision, HDR10, and HLG.
- Configure and manage all NetworkHD devices with the NHD-CTL-PRO IP controller via a user-friendly web UI.
- Easily configure the system by downloading the NetworkHD Touch App on a tablet and pairing it with the NHD-CTL-PRO.
- Use the NHD-600-TRX as both an encoder and decoder, reducing the number of devices required.
- Transmit 4K video losslessly and with end-to-end zero-frame latency in genlock mode under a 10GbE network.
- Support seamless AV source switching via "Fast Switch" mode.
- Integrate powerful video wall and multiview processing via the NHD-600-TRX, all in one device.

What's included in the solution?

Product Model No.	Quantity
<i>You can click the product model name to visit the corresponding page.</i>	
NHD-610-TX v2	2*
NHD-600-TRX	11
NHD-CTL-PRO v2	1
NHD-TOUCH	1

*Note: More NHD-610-TX v2 units can be added based on the actual needs of the player station.

Typical Connection Diagram



Distributed AV over IP Solution for Lab

Enhancing student engagement and learning experience with an intelligent audiovisual solution in laboratory classrooms

This solution enhances student engagement and learning through an intelligent audiovisual system in laboratory classrooms. Students can view real-time experiment demonstrations on monitors at their desks and switch between different multimedia devices. The system integrates devices at the teacher's table with student monitors, promoting interaction and participation. With an intuitive control interface, teachers can easily manage settings, ensuring smooth instruction and improving teaching effectiveness. This setup fosters interactive learning and helps students understand experiment processes better.

Key Features

4K 60Hz Distribute 4K@60Hz content on any display using NetworkHD encoders/decoders.

Easily configure the system by downloading the NetworkHD Touch App on a tablet and pairing it with the NHD-CTL-PRO.

Support real-time viewing and sharing of student experiment status with USB 2.0 function for USB camera signal return to laptops.

Experience fast and seamless switching between various sources like laptops, room PCs and document cameras, etc.

Connect laptops, document cameras, and room PCs for versatile content sharing.

Easily configure and manage all NetworkHD devices with the NHD-CTL-PRO IP controller via a user-friendly web UI.

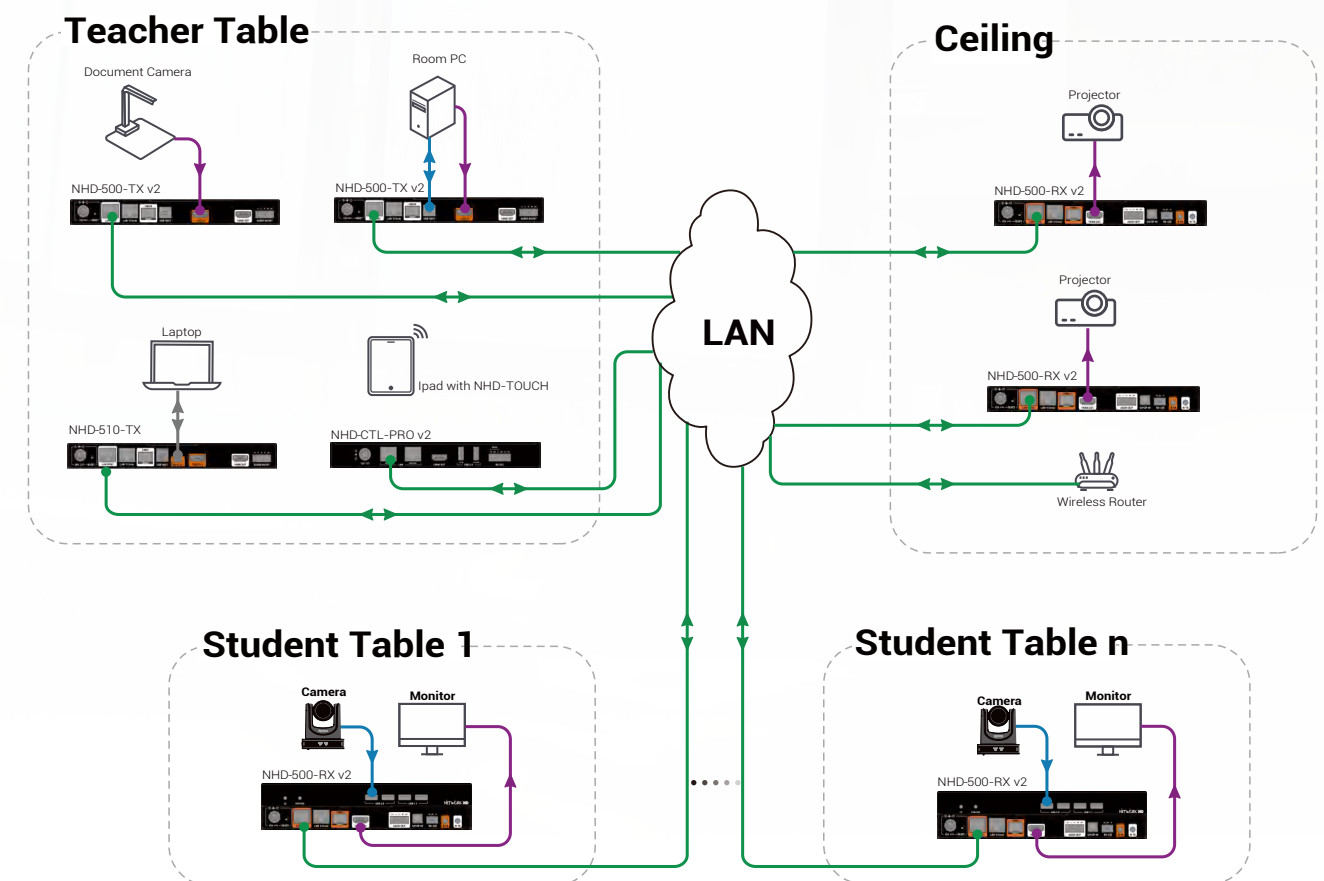
Utilize the full-featured USB-C port on NHD-510-TX for seamless transmission of video, audio, USB, Ethernet, and power delivery.

What's included in the solution?

Product Model No.	Quantity
<i>You can click the product model name to visit the corresponding page.</i>	
NHD-500-TX v2	2
NHD-510-TX	1
NHD-500-RX v2	4*
NHD-CTL-PRO v2	1
NHD-TOUCH	1

Note: More NHD-500-RX v2 units can be added based on the actual needs of the student table.

Typical Connection Diagram



Solution for Active Learning Space

Empower interactive learning experiences with seamless collaboration and dynamic content sharing in educational settings.

With our active learning space solution, you can transform classrooms into dynamic hubs where each student group can easily share and interact. Teachers can seamlessly share content and engage with every group, fostering an interactive and efficient teaching environment. This setup promotes high-quality learning and student engagement.

Key Features

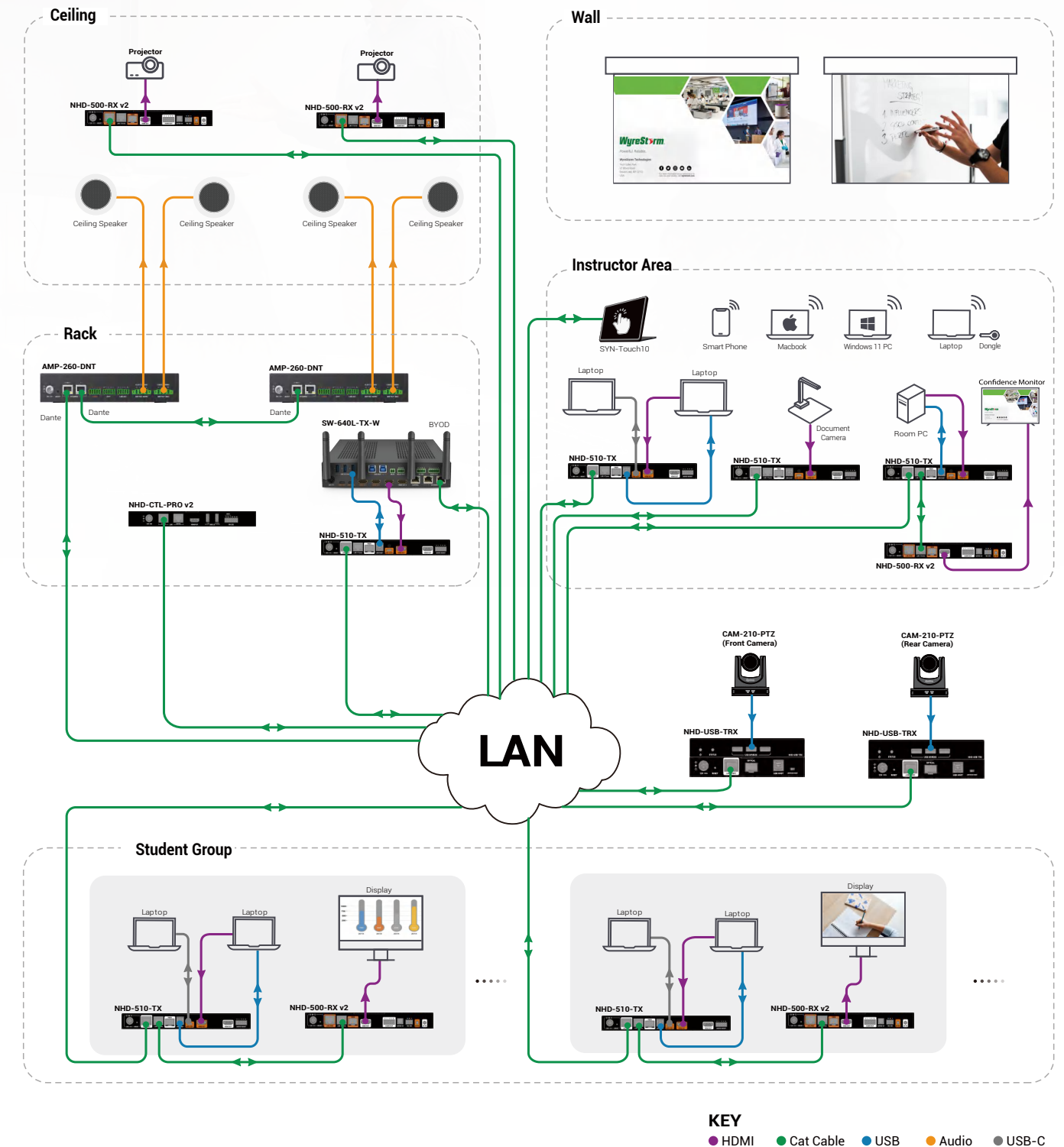
- 4K 60Hz** Distribute 4K@60Hz content to any display with NetworkHD encoders/decoders, delivering an ultra-low latency of just 4ms for a smooth and seamless experience.
- Enable wireless screen sharing with the SW-640L-TX-W presentation system.
- Experience automatic source switching between HDMI and USB-C inputs on NHD-510-TX.
- Enhance audio distribution using Dante AV-A support for sound routed through Dante to AMP-260-DNT amplifiers then ceiling speakers.
- Perform source switching, adjust volume, and turn on/off the screens effortlessly with the SYN-TOUCH10 touch panel controller.
- Utilize the full-featured USB-C port on NHD-510-TX for seamless transmission of video, audio, USB, Ethernet, and power delivery.
- Connect laptops, document cameras, and room PCs for versatile content sharing.
- Streamline networking with dual Ethernet ports on NHD-510-TX, saving switch ports for each group.
- Support hybrid teaching with USB 2.0 function for USB camera signal return to laptops.
- Easily configure and manage all NetworkHD devices with the NHD-CTL-PRO IP controller via intuitive web UI.

What's included in the solution?

Product Model No.	Quantity
<i>You can click the product model name to visit the corresponding page.</i>	
NHD-510-TX	6*
NHD-500-RX v2	5*
NHD-USB-TRX	2
SW-640L-TX-W	1
AMP-260-DNT	2
CAM-210-PTZ	2
NHD-CTL-PRO v2	1
SYN-TOUCH10	1

Note: The 6 units of NHD-510-TX are for 2 student groups; you can add more according to your needs. And the 5 units of NHD-500-RX v2 are for 2 student groups; you can add more according to your needs.

Typical Connection Diagram



A photograph of five business professionals in a modern office setting. A man in a grey suit stands and speaks to a group of four seated colleagues (two women and two men) who are listening attentively. The scene is brightly lit by large windows in the background.

Thank you for your time.

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