



Q-NEX SOLUTION

Make Digital
Campus Organized

Address

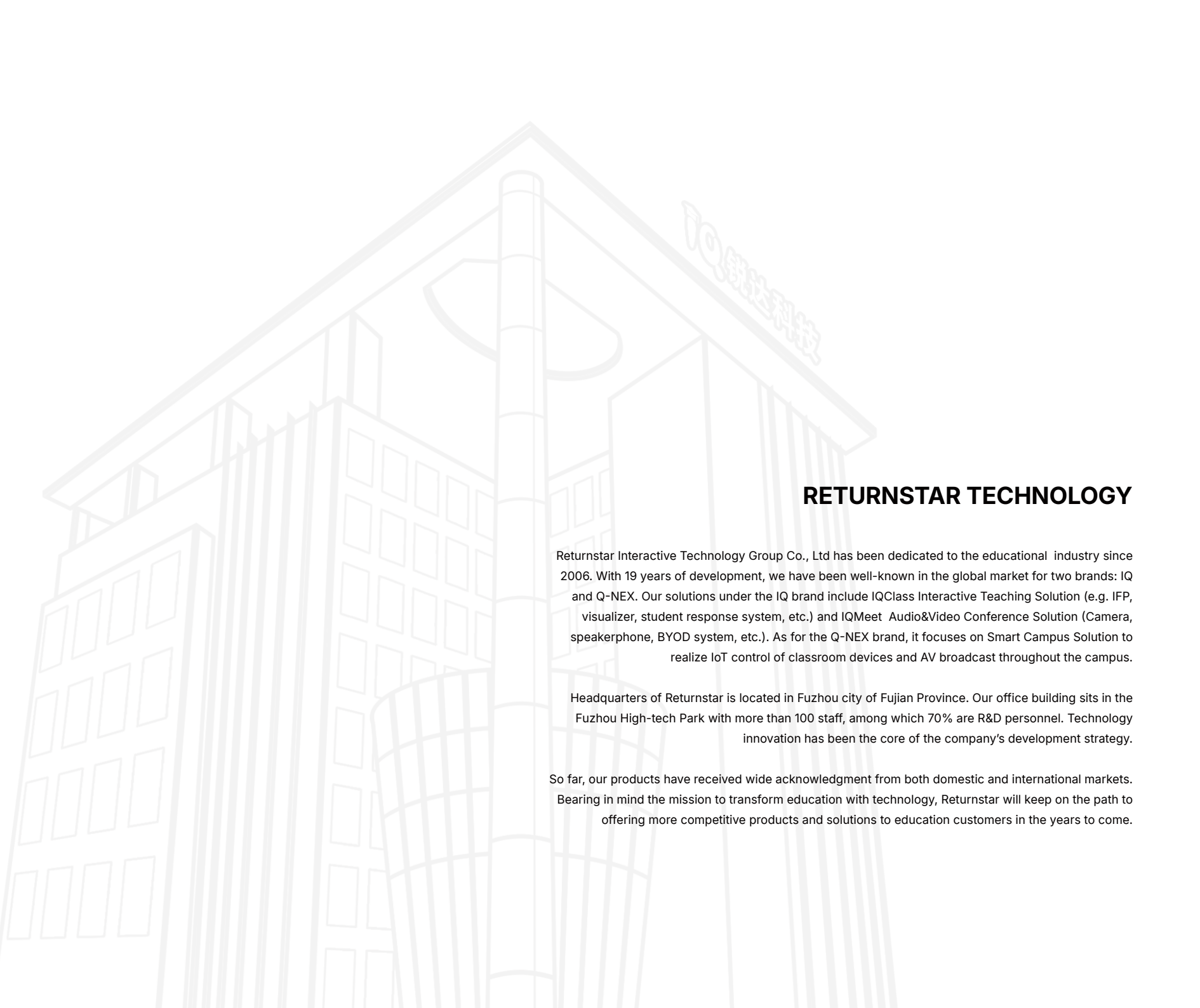
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RETURNSTAR TECHNOLOGY

Returnstar Interactive Technology Group Co., Ltd has been dedicated to the educational industry since 2006. With 19 years of development, we have been well-known in the global market for two brands: IQ and Q-NEX. Our solutions under the IQ brand include IQClass Interactive Teaching Solution (e.g. IFP, visualizer, student response system, etc.) and IQMeet Audio&Video Conference Solution (Camera, speakerphone, BYOD system, etc.). As for the Q-NEX brand, it focuses on Smart Campus Solution to realize IoT control of classroom devices and AV broadcast throughout the campus.

Headquarters of Returnstar is located in Fuzhou city of Fujian Province. Our office building sits in the Fuzhou High-tech Park with more than 100 staff, among which 70% are R&D personnel. Technology innovation has been the core of the company's development strategy.

So far, our products have received wide acknowledgment from both domestic and international markets. Bearing in mind the mission to transform education with technology, Returnstar will keep on the path to offering more competitive products and solutions to education customers in the years to come.

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01 SOLUTION OVERVIEW



Solution Background

In today's world, information and communication infrastructure in various countries is developing rapidly, and technological change has become a major strategic measure for developing education and conferences. With the popularization of information technology, people have begun to pursue the use of technology to maximize the convenience of learning and work.

But at the same time, with the development of science and technology, some new problems have also arisen:

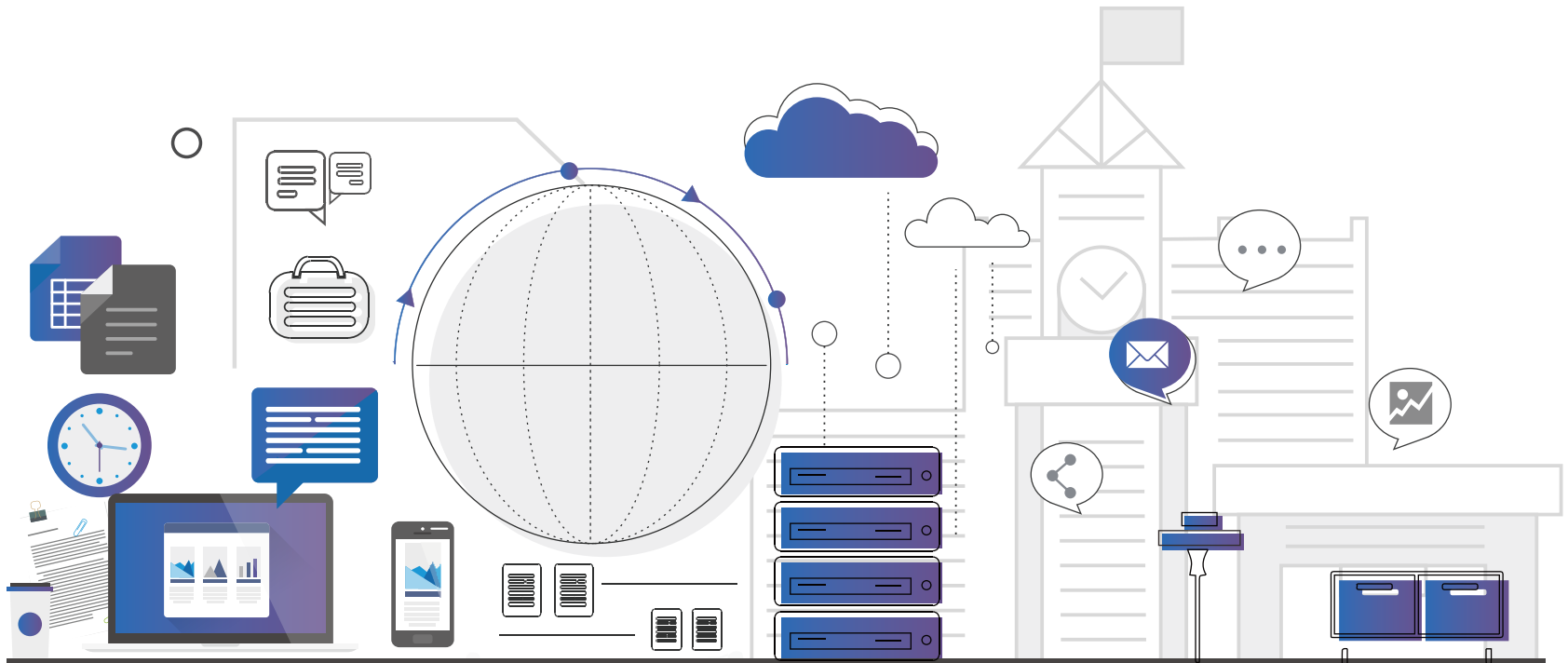
- High learning costs
- Adaptability across multiple devices
- Implementation budget concern



What is Q-NEX

Based on the TCP/IP protocol, Q-NEX smart campus solution involves connecting all the Q-NEX terminal units to a media server and a cloud management platform to realize the following:

- Remote and unified control for whole school/organization.
- Campus-wide audio and video broadcast / live streaming.
- Effective and orderly execution of scheduled tasks automatically.
- Serves multiple classroom types, including smart classrooms, hybrid classrooms, auditoriums, etc.
- BYOD & BYOM for online and offline meetings.



Advantages of Q-NEX Solution



Highly-Integrated Device

Q-NEX terminal unit is an all-in-one device integrated with versatile functional modules specially designed to meet all kinds of application scenarios in the education and conferencing environment while reducing the budget for ICT infrastructure.

Powerful Functions

Q-NEX solution can realize device centralized control through the Internet, audio and video matrix switch, scheduled task management, campus-wide live streaming, audio and video broadcasting, campus information distribution, BYOM and other functions.

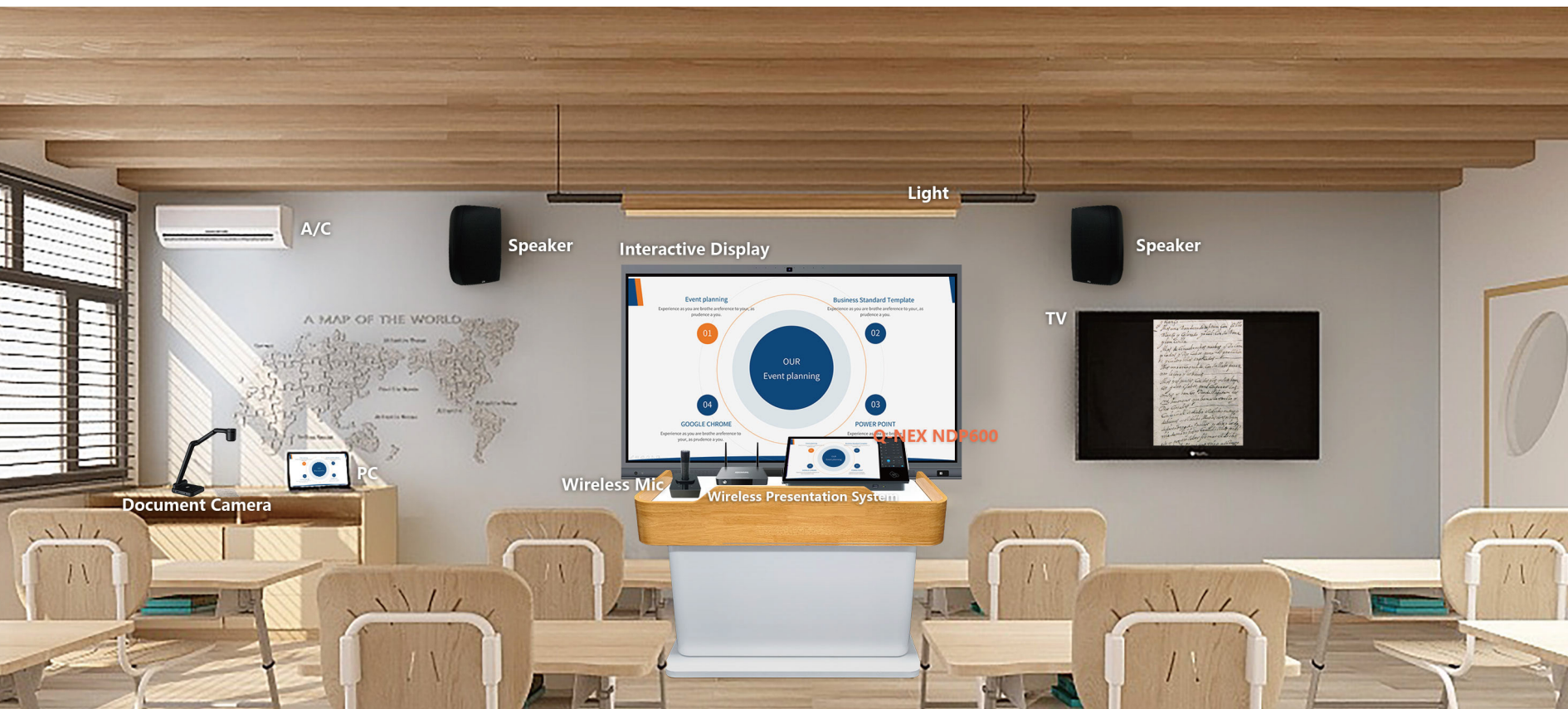
Networked Remote Control

The Q-NEX terminal unit can be operated flexibly by local classroom/-conference room Touch Panel, web-based Console or mobile APP, which makes it possible for remote and unified control by different users anytime and anywhere.

Simplified Deployment

Q-NEX smart solution can be implemented under existing network infrastructure. The Q-NEX terminal unit is easy to install, and can be configured without programming. The visual user interface makes it intuitive for end users to get started.

02 SOLUTION APPLICATION



Smart Classroom

By using the Q-NEX Smart Classroom Solution, you can connect multiple multimedia devices in the classroom with one NDP600 to achieve centralized control and video distribution. It is convenient for teachers, principals, and information administrators to remotely control the classroom through the Internet and mobile devices. This plan applies to both the renovation of the original classroom and the construction of the new classroom.

Key Features



Device
Control



Audio&Video
Matrix



Timing
Task



Remote
Control

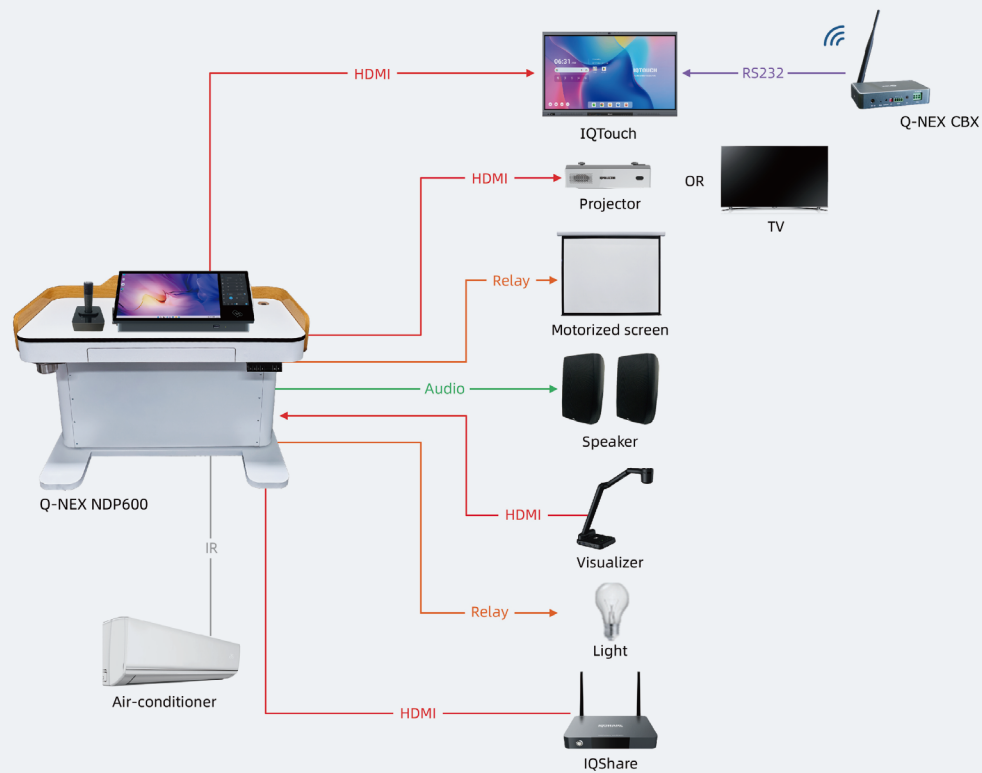


AV
Broadcasting



Live
Streaming

Layout of Connected Devices



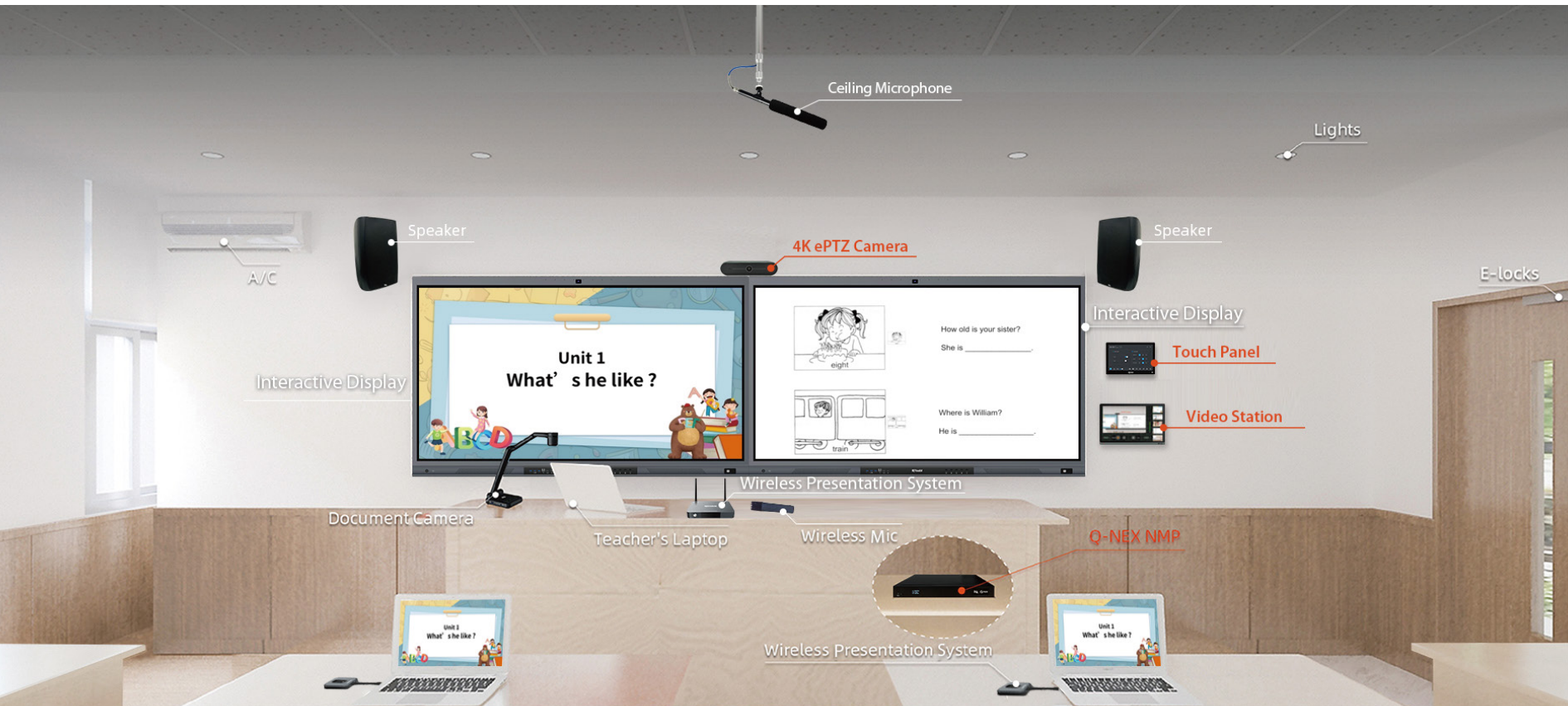
Features

- One key to turn on/off projector and projection screen.
- One key to turn on/off the IFP.
- Audio and video matrix switch.
- Real-time campus audio, video and text broadcast.
- Turn classroom facilities such as lamps, air-conditioners, e-curtain, TV, etc., to Internet-connected devices.
- Remote control of classroom equipment by mobile devices at any time and place.
- Reduce repetitive work for IT administrators.
- Get classroom devices under control by schedule or play designated audio and video content by schedule.

Recommended Products

Function	Recommended Model	Item Description	Quantity
Desktop Digital Podium	Q-NEX NDP600	Desktop Annotation, Device Central Control & Networked AV Decoder	1
Video Output	IQBoard IR	Infrared Interactive Whiteboard working with Projector	1
	IQTouch Series	Interactive Flat Panel	1
	-	TV	1
Video Input	IQShare	Wireless Presentation System	1
	IQView	Document Camera	1
Audio Output	IQSound	Passive Speaker	1 (pair)
Audio Input	-	Wireless Mic (enclosed in NDP600 set)	1

Other peripherals -- Lights, air conditioner, electronic door lock *1, projection screen*1



Lecture Capture Classroom

By connecting the Lecture Capture System to NMP, we can build a Lecture Capture Classroom with live streaming, so that the class can be broadcast not only to websites like YouTube for students studying at home, but also to other classrooms for students in the school. Meanwhile, the NMP can realize multiple device control of the classroom.

Using the video conferencing software in hybrid learning environment, the Video Station enables a mixed video (combination of teacher and students captured by cameras in the classroom and teacher's courseware) to be presented as the participant for those students who connected remotely at home.

Key Features



Lecture
Recording



Automatic
Director



AV Matrix
Switching



Remote
Management

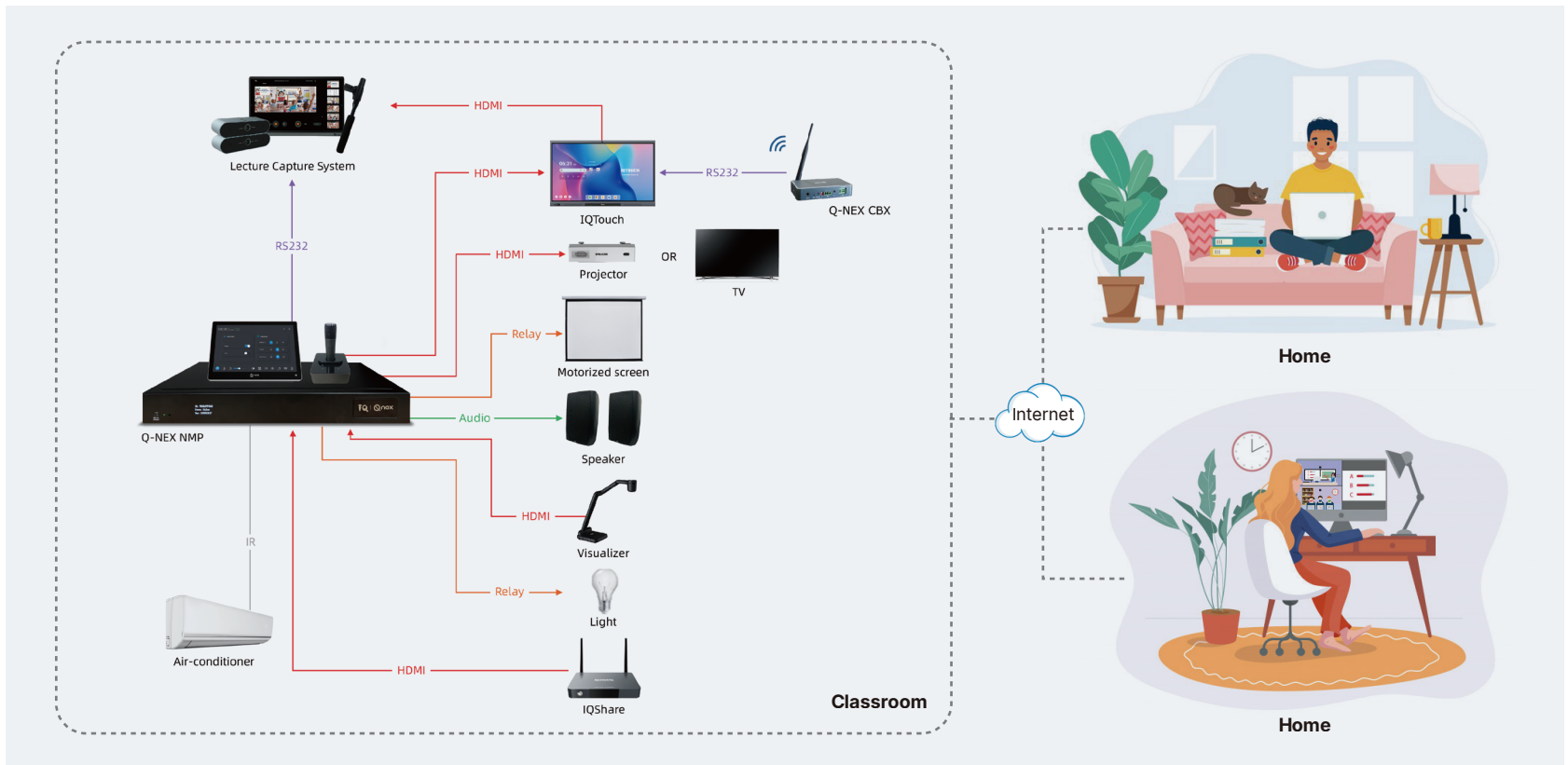


AV
Broadcasting



Live
Streaming

Layout of Connected Devices



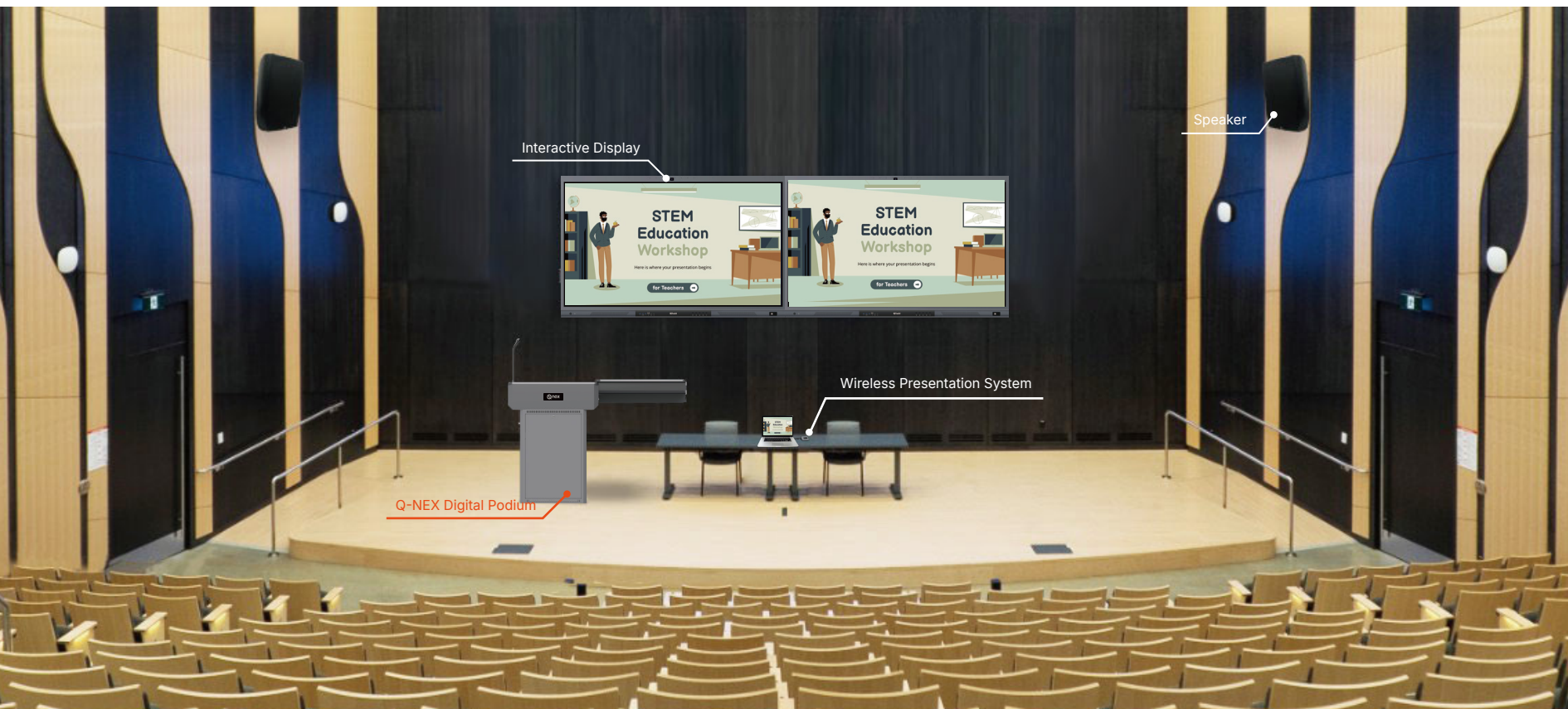
Features

- Through the Internet, teachers can stream live classes to remote learning platforms like YouTube for students to watch.
- One click to start recording the classes, and the system will automatically conduct close-up, switch and jump of lens.
- After recording, teachers can also upload the video to the school FTP server for students to download and study offline.
- With the help of Q-NEX live streaming, the school's popular teachers can deliver public lectures to all classrooms in school LAN in real time, so as to solve the problem of limited classroom space. Meanwhile, the lecture can also be recorded for playback.
- During lecture capture process, the AV switching function of NMP will output the multi-source courseware screen to the Video Station, so as to ensure the richness and diversity of the teaching content.

Recommended Products

Function	Recommended Model	Item Description	Quantity
Networked Media Processor	Q-NEX NMP311	Device Central Control & Networked AV Decoder	1
Video Output	IQTouch Series	Interactive Flat Panel	1
Video Input	-	Teacher's Laptop or Classroom PC	1
	IQView	Document Camera	1
	IQShare	Wireless Presentation System	1
Audio Output	IQSound	Passive Speaker	1 (pair)
Audio Input	Ceiling Mic(IQVideo)	Ceiling Mic	1
	-	Wireless Mic (enclosed in NMP set)	1
Lecture Capture System	IQVideo	Video Station	1
		Teacher's Camera	1
		Student's Camera	1

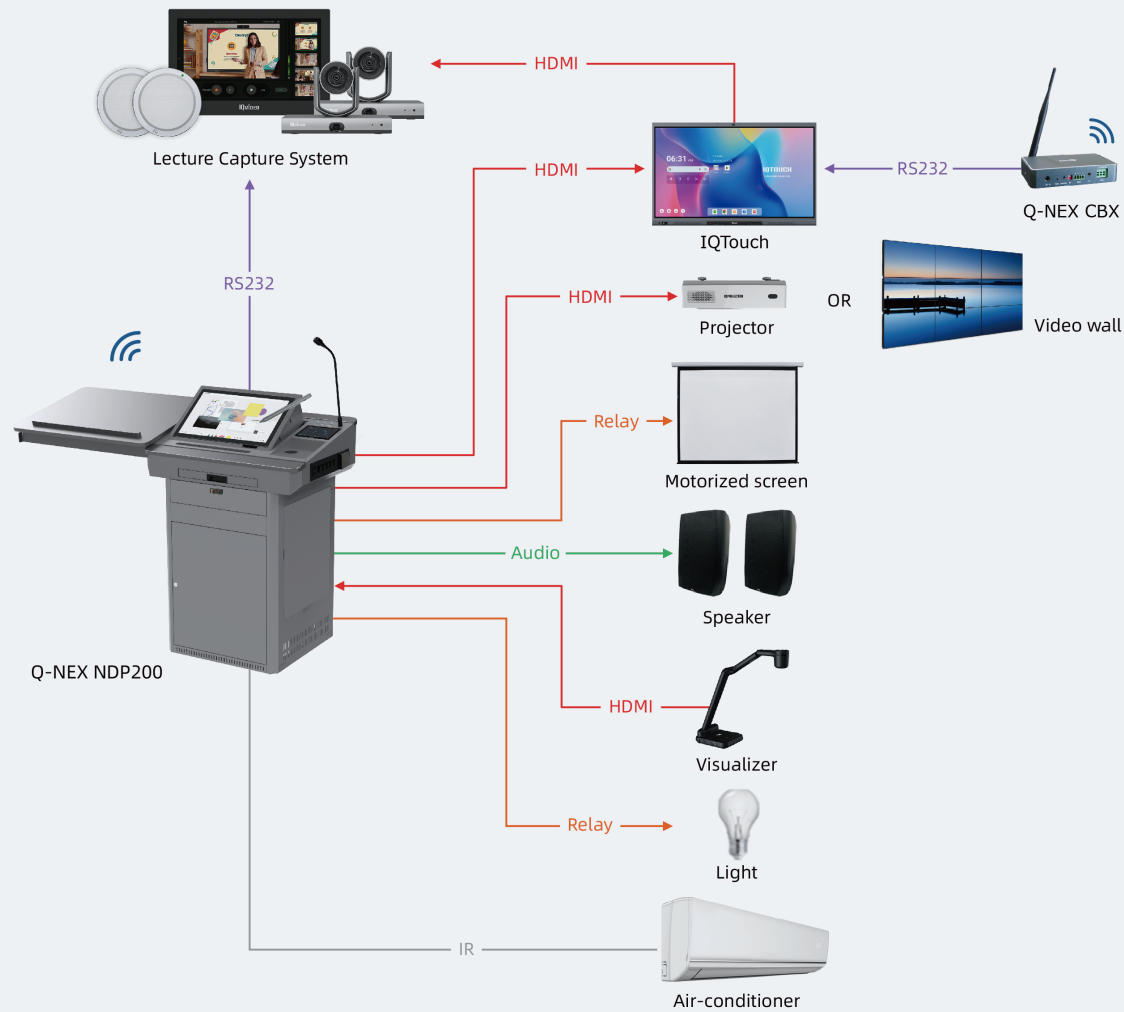
Other peripherals -- Lights, air conditioner, electronic door lock *1, projection screen*1



Lecture Hall

This is an integrated solution for auditoriums, lecture halls, seminar rooms and other large classrooms. With the Q-NEX NDP200, the traditional auditorium can be transformed into a multifunctional one with centralized control under minimum cost. By simply standing in front of the lectern, the lecturer can have one-button control over the electric screen and projector, easily switch input sources, power on/off lights and air conditioner. For school IT admins, they can have remote control over all the lecture halls through NDP200.

Layout of Connected Devices



Features

- Device connected to Q-NEX NDP200 can be controlled remotely. School IT administrators can control devices on campus through the Internet, either Q-NEX Console by Web browser on PC or Q-NEX APP from mobile devices.
- When receiving the campus AV broadcast or the principal's live broadcast, Q-NEX NDP200 can automatically roll down the projection screen and turn on the projector, to ensure campus-wide AV distribution will not be missed in the classrooms on campus.
- Teachers can control multimedia devices in the classroom through the Touch Panel of Q-NEX NDP200, such as power on/off devices like projectors /lights, control projection screen up and down, adjust air conditioners, initiate lecture recording, microphone volume adjustment, etc.
- Q-NEX NDP200 has the function of executing scheduled tasks. By setting the scheduled power on/off task of classroom equipment and the scheduled task of AV broadcasting on the Q-NEX Console, NDP200 can automatically turn on/off connected devices or play the distributed AV content in the classroom at the scheduled time.
- Q-NEX NDP200 provides versatile interfaces, accommodating user's laptops with HDMI or Type-C ports, as well as USB drives, ensuring hassle-free connectivity of coursewares for educators.
- Transforming traditional auditoriums into digital spaces requires seamless audiovisual integration. This conversion facilitates remote device control and audiovisual reception, creating a smart, connected auditorium.

Recommended Products

Q-NEX Digital Podium



IQTouch

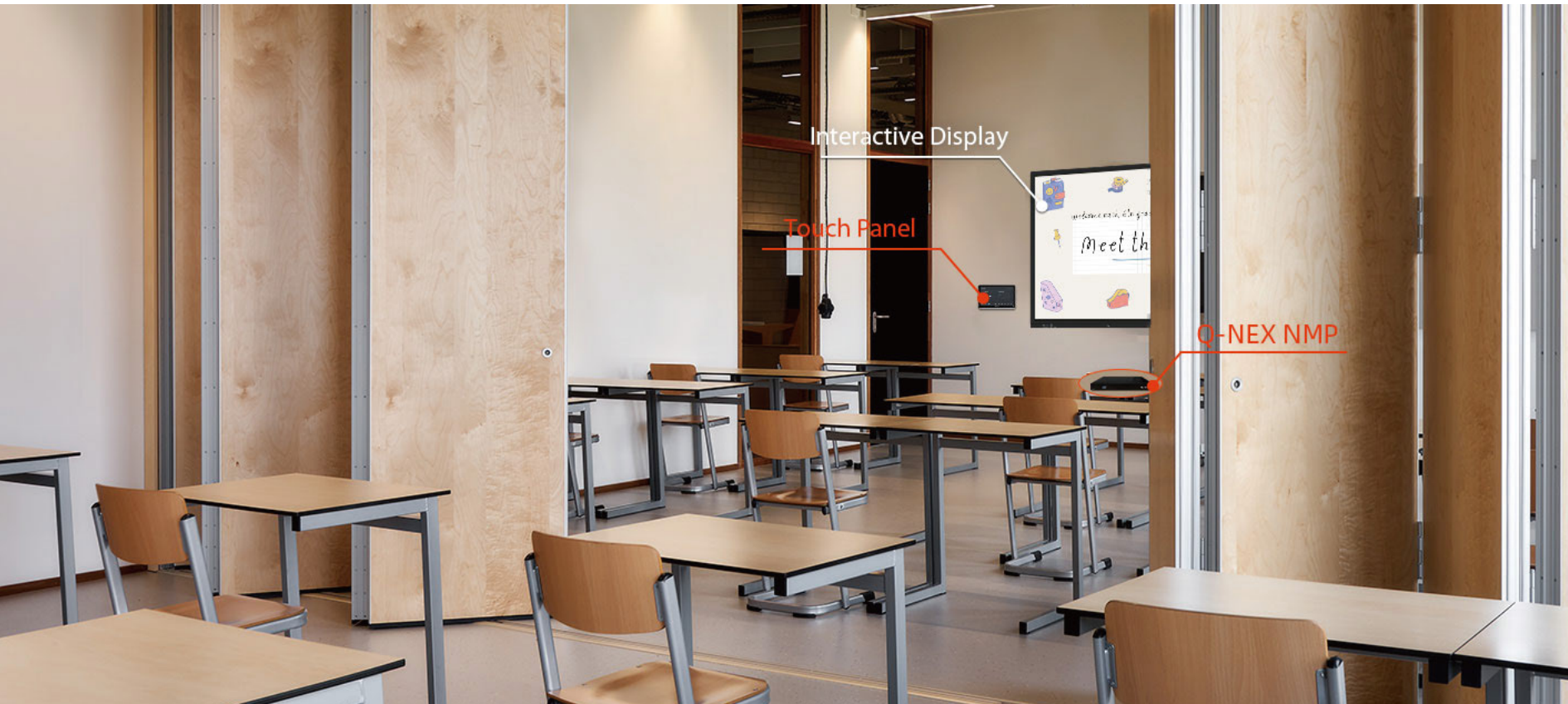


IQShare



IQSound

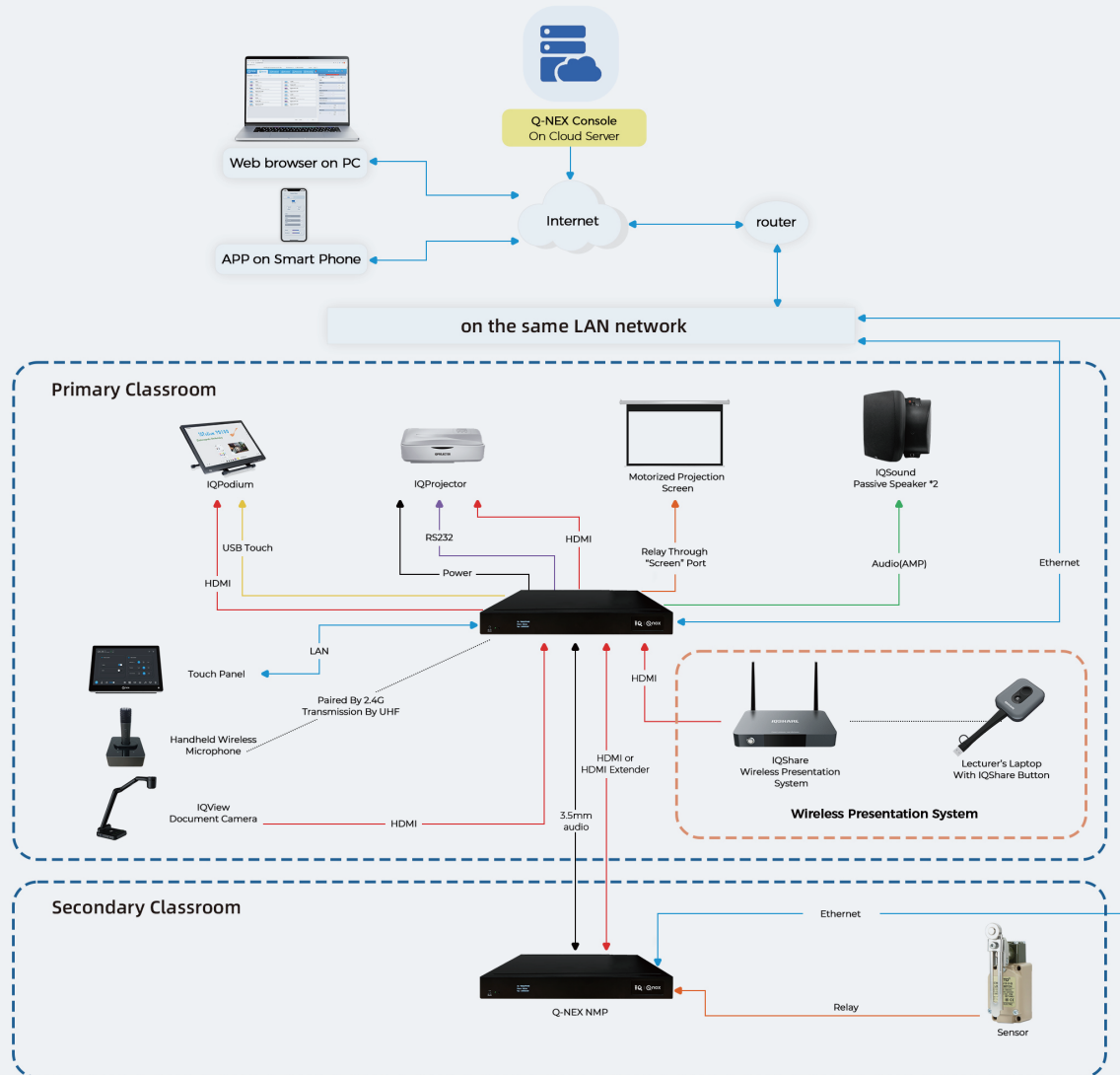




Divisible Classroom

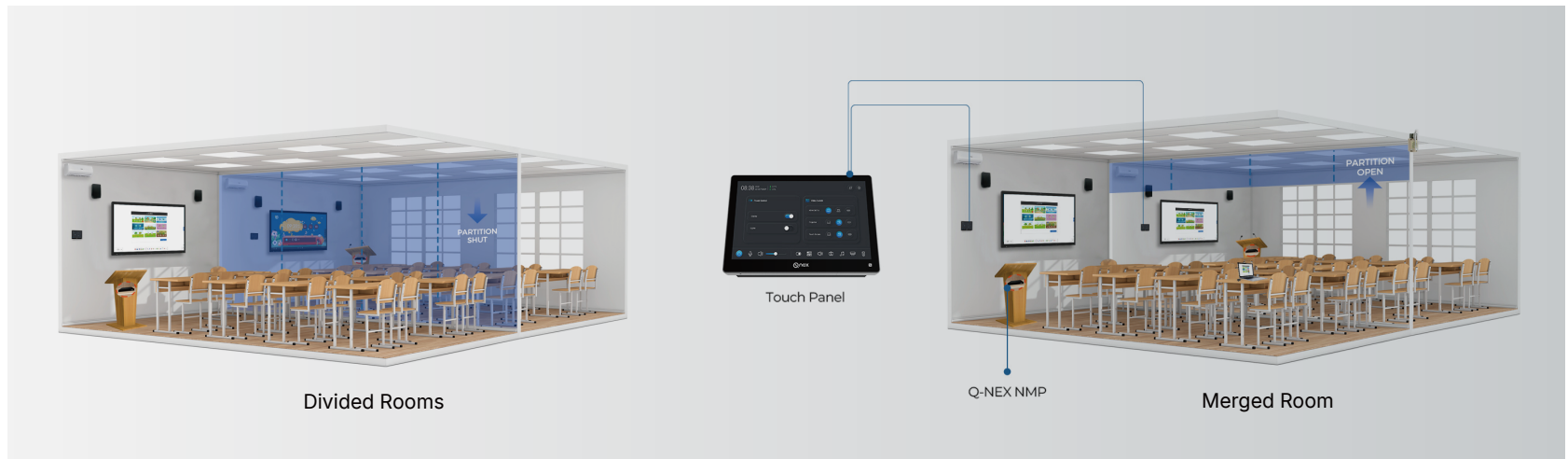
Along with Q-NEX NMP as a highly integrated media control processor, not only takes over centralized device control for classrooms, but also sets up divisible classroom enabled sharing AV content from primary classrooms to secondary classrooms.

Layout of Connected Devices



Independent Rooms Control

For classroom/meeting rooms with partition used, when the partition is set to divide one room into two, each divided room can achieve independent multimedia device control and work with no interruption in daily use. When needed, the rooms can merge into one again with partition removed.



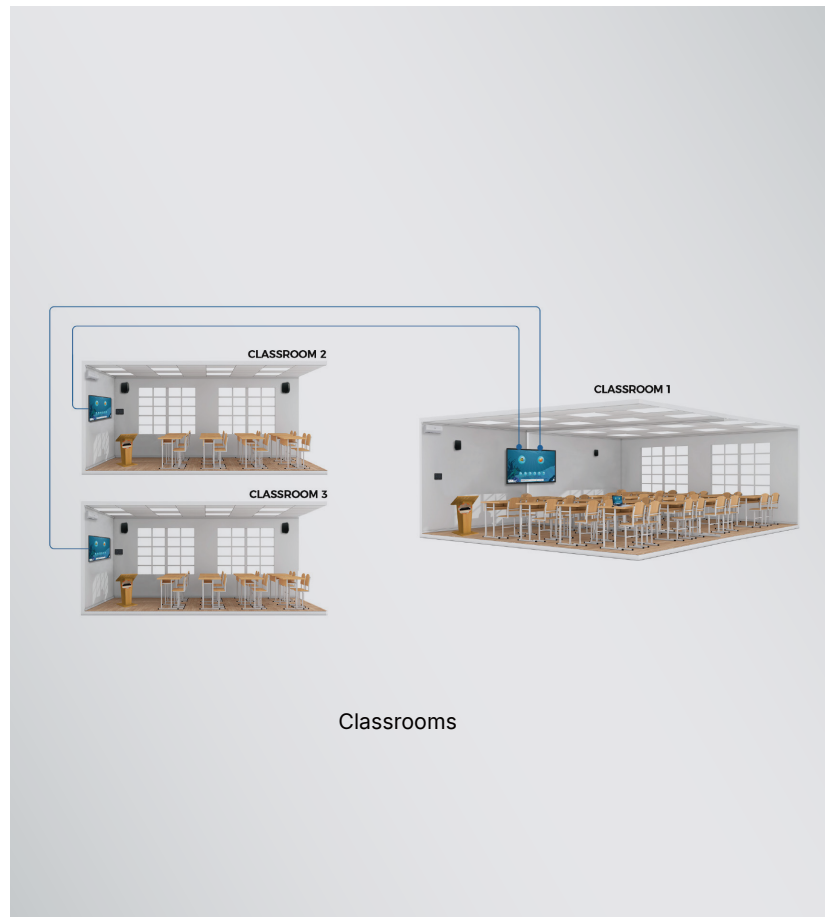
Flexible Space Utilization

Transforming two independent classrooms/meeting rooms into one bigger multipurpose classroom /meeting room. The partition sensor allows a variety of different scenes and configurations in a room with independent control, which promotes the flexible utilization of the space.



Divisible Classroom Control

Build the connection of two classrooms/meeting rooms through NMPs, one tap on Touch Panel to switch to Primary-Secondary Mode, which enables AV distribution from the primary classroom to the displays and audio devices in secondary classrooms. Switch off divisible mode and back to independent states.





One Touch to Handle All

A compact Touch Panel delivers an intuitive user interface with versatile functions, simple click to centrally control classroom devices such as AV matrix switch, volume adjustment, and IoT device control for display, light, A/C, e-curtain, etc.



AV Centralized Control

There is a complete set of AV devices and an AV controller equipped in each room. Both rooms can be independent in use or conducted completely under one control that all displays and speakers in the rooms play the same media content at the same time.



Scheduled Task Management

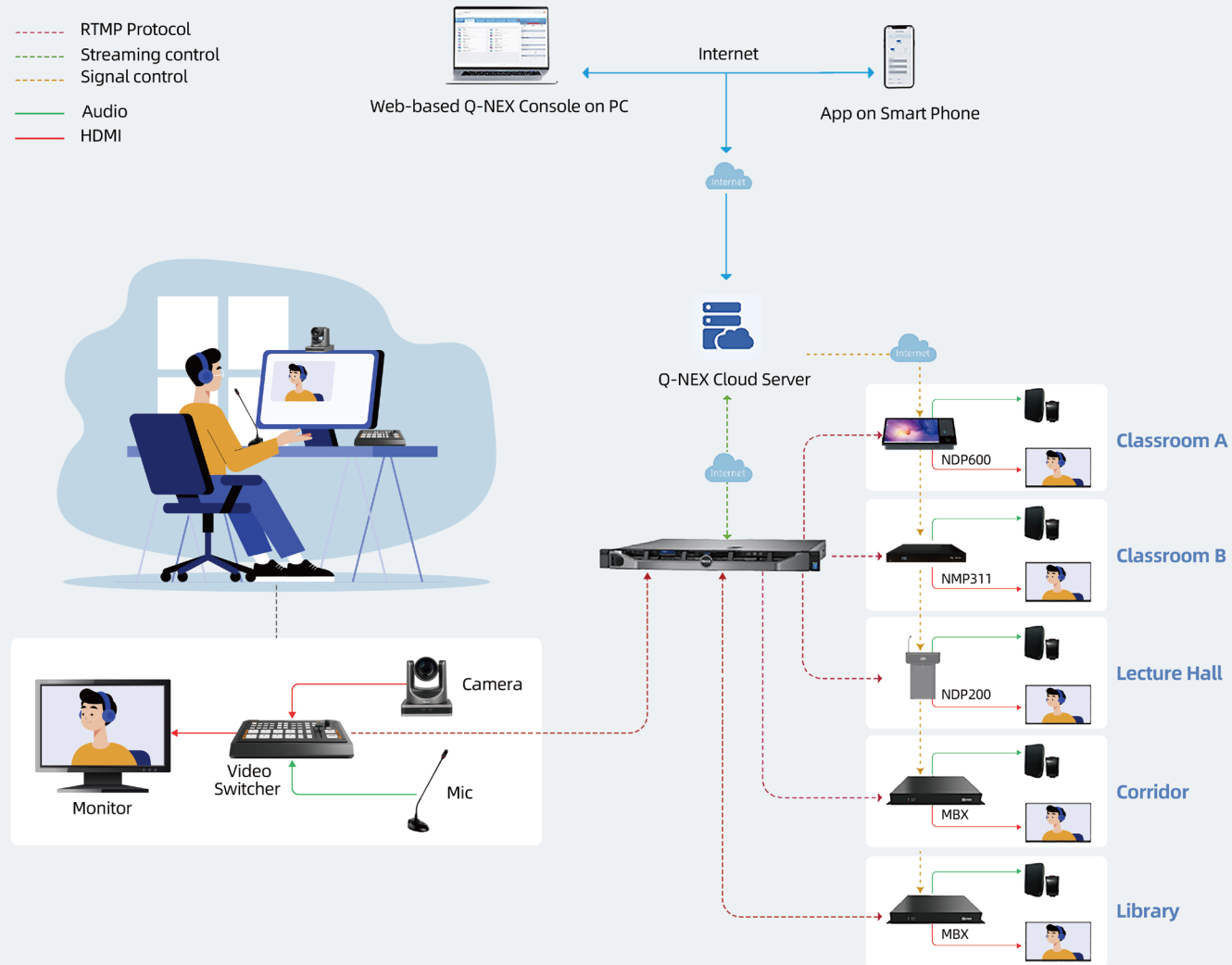
Set scheduled tasks including broadcasting the message, powering on/off the devices (such as lights, displays, A/C, etc.), and automatically executing tasks to each oriented classroom. Greatly reduce the time cost and free IT admin from repeated daily management.



Campus-Wide AV Distribution

Q-NEX solution for campus-wide AV distribution is based on the AV-over-IP technology to realize not only audio and video broadcast, but also live streaming to all of the classrooms as well as spaces outside classrooms such as cafeteria, library, teacher's offices, corridor and reception hall.

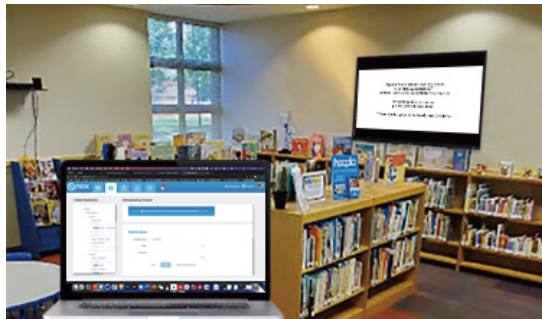
Layout of Connected Devices



Application Scenarios



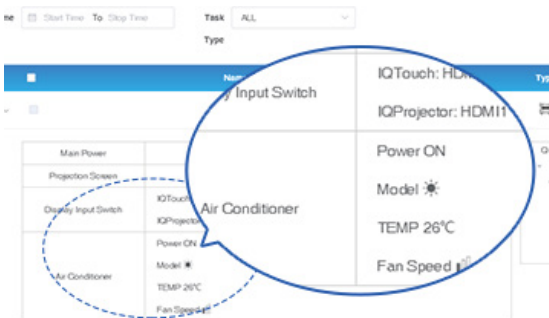
Audio and Video Broadcast on Campus



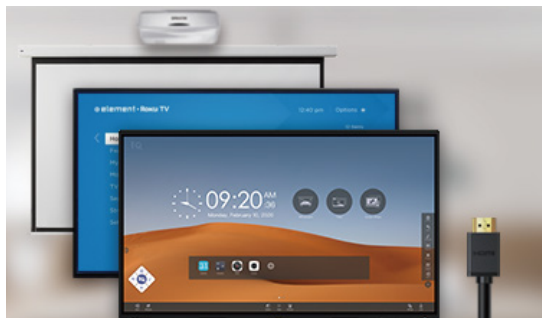
Notification Push on Campus



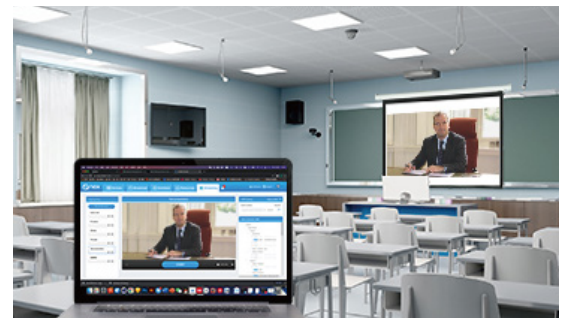
Live Streaming on Campus



Broadcast on Schedule



Compatible with Any HDMI Displays



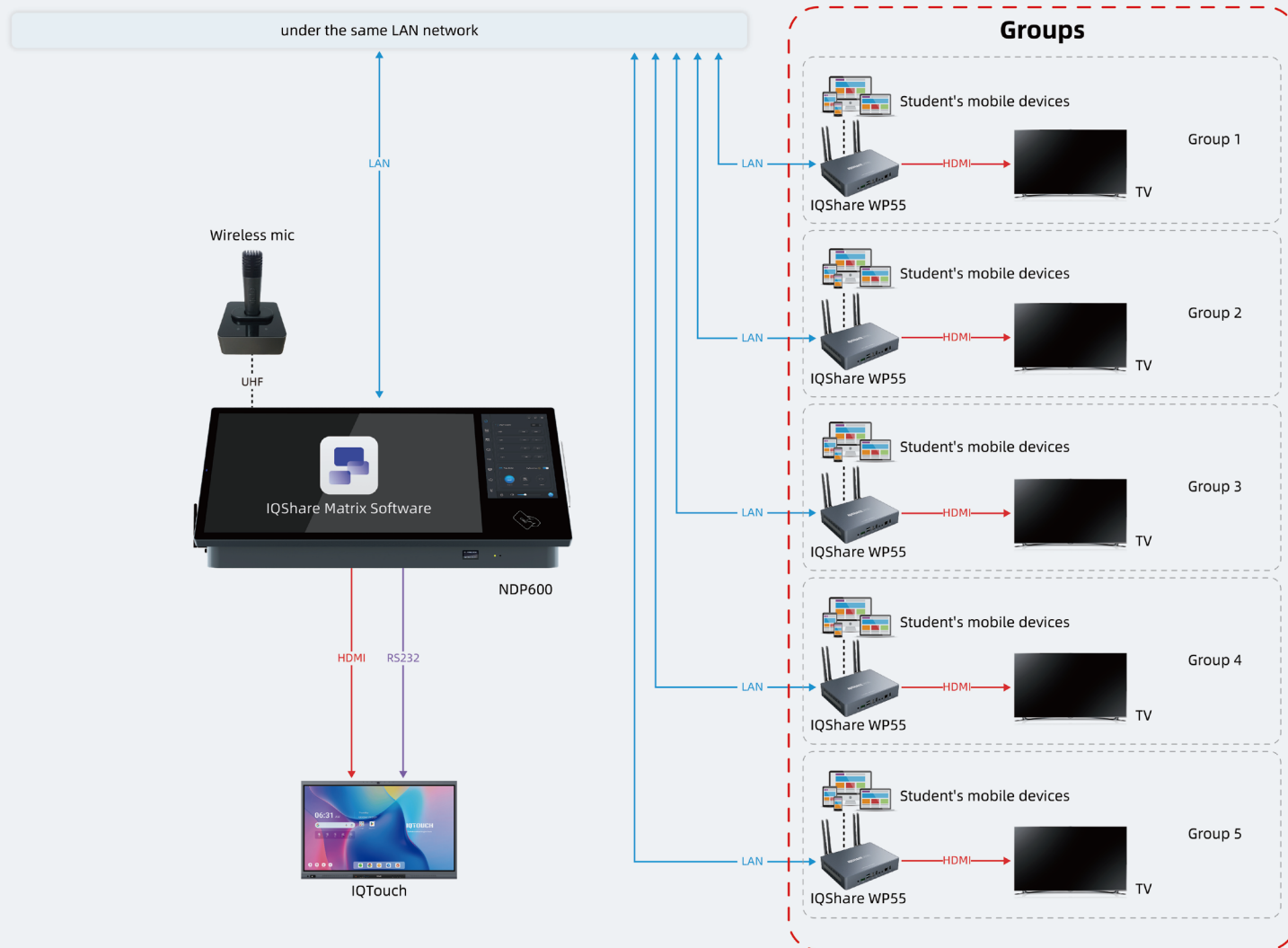
Displays Auto Power on When Broadcasting



Collaborative Learning Solution

Q-NEX collaborative learning solution endeavors to bridge these gaps by enabling seamless two-way screen-sharing control between teachers and students. This innovative solution not only empowers teachers to deliver vibrant classes that greatly enhance students' interaction, but it also encourages students to actively participate in classroom discussions and yield fruitful outcomes.

Layout of Connected Devices



Application Scenarios



Centralized iPad Control

Teachers use an iPad as a central command hub to wirelessly broadcast lesson content in 4K ultra HD to up to 10 group displays. With ultra-low latency and intuitive control, instructors can manage screens, content flow and class pacing effortlessly—keeping every group aligned from the very beginning.



Seamless Group Discussion

Students instantly contribute ideas by casting content from their own devices to group displays. Each display supports up to four simultaneous screen shares, allowing side-by-side comparisons that spark discussion, encourage multiple perspectives, and promote active participation within every group.



Cross-Group Collaboration

With intuitive iPad drag-and-drop controls, teachers can instantly share standout group work across the classroom. Content can be exchanged between groups for comparison, peer review and inspiration—creating a flexible, wireless collaboration environment that connects ideas beyond individual teams.



Monitor & Facilitate Discussions

Teachers preview any group's screen directly from the iPad to monitor progress in real time. By annotating shared content and providing timely guidance, instructors can steer discussions, address misconceptions and ensure every group stays engaged and on track.

Recommended Products

Q-NEX Digital Podium



IQTouch



IQShare Matrix Software



IQShare Matrix



IQSound

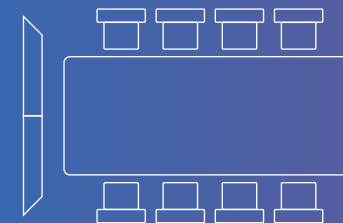


IQView



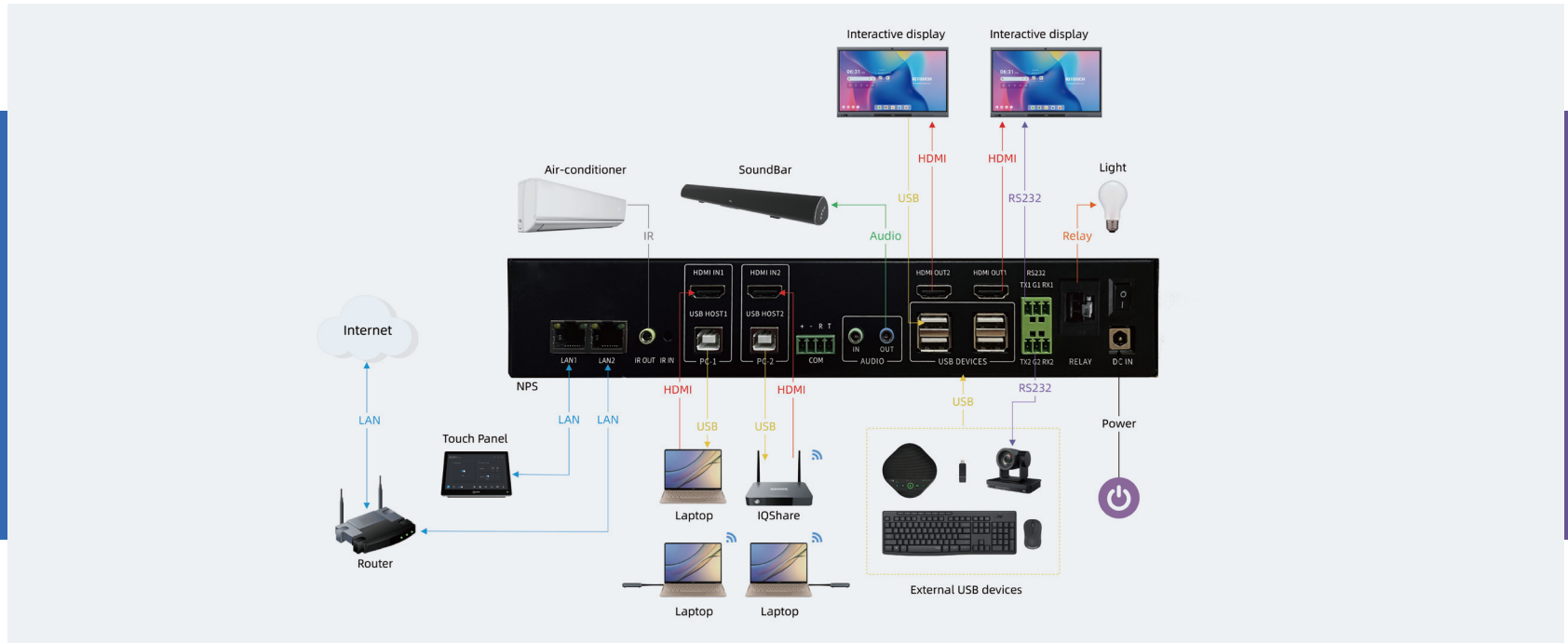
Small Video Conference System

Q-NEX small meeting room solution caters to the quick, small-group meeting needs, whether for brief work updates or brainstorming sessions. In such meeting room scenarios, the emphasis is on the ability to swiftly initiate meetings, intuitively share screen content, freely express ideas for brainstorming, and facilitate seamless collaboration.



Size
20-40 m²
Capacity
4-20 people

Layout of Connected Devices



Recommended Products

Q-NEX NPS



IQShare



IQSpeakerphone



IQMeet Camera



IQSoundbar



IQTouch



Functions



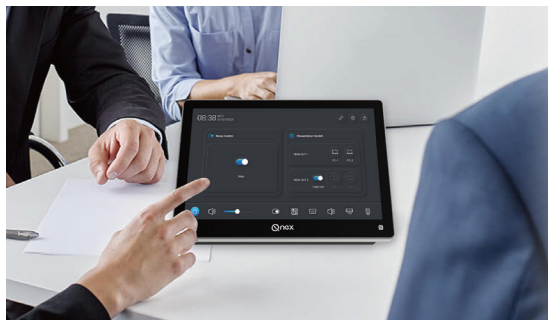
Matrix Switching



BYOD Screen Sharing



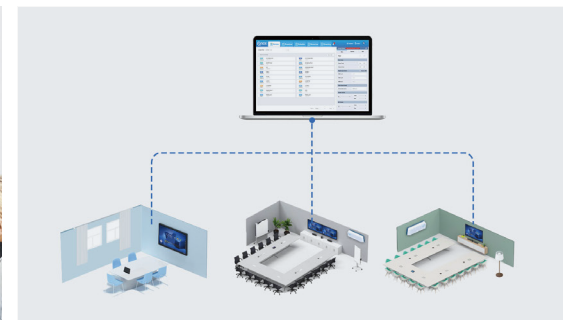
BYOM Integration



Touch Panel Control



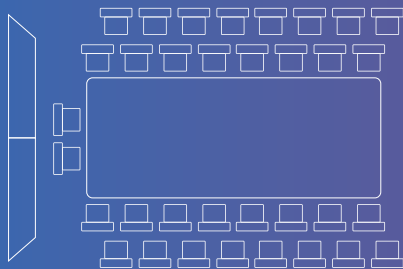
Seamless Collaboration



Remote Control of Meeting Room Devices

Medium Meeting Room Solution

Q-NEX Medium Room Solution is designed to deliver a clear audio and visual experience for meetings rooms. The innovative technology ensures clear audio and visual communication, creating a focused and efficient meeting environment for 20-50 participants. Experience intelligent wireless mic systems, camera tracking, and central control for seamless meetings.

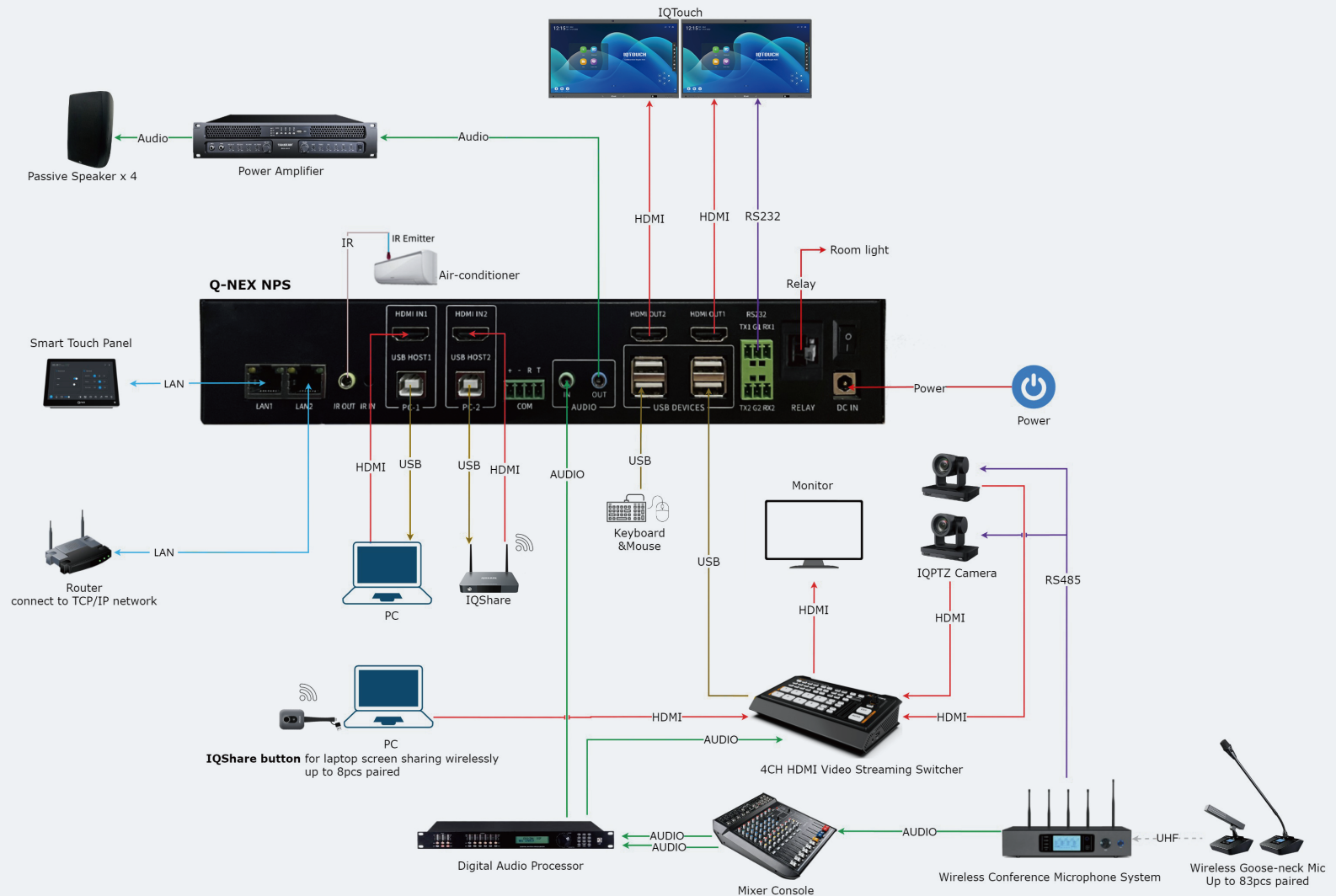


Size
40-100 m²

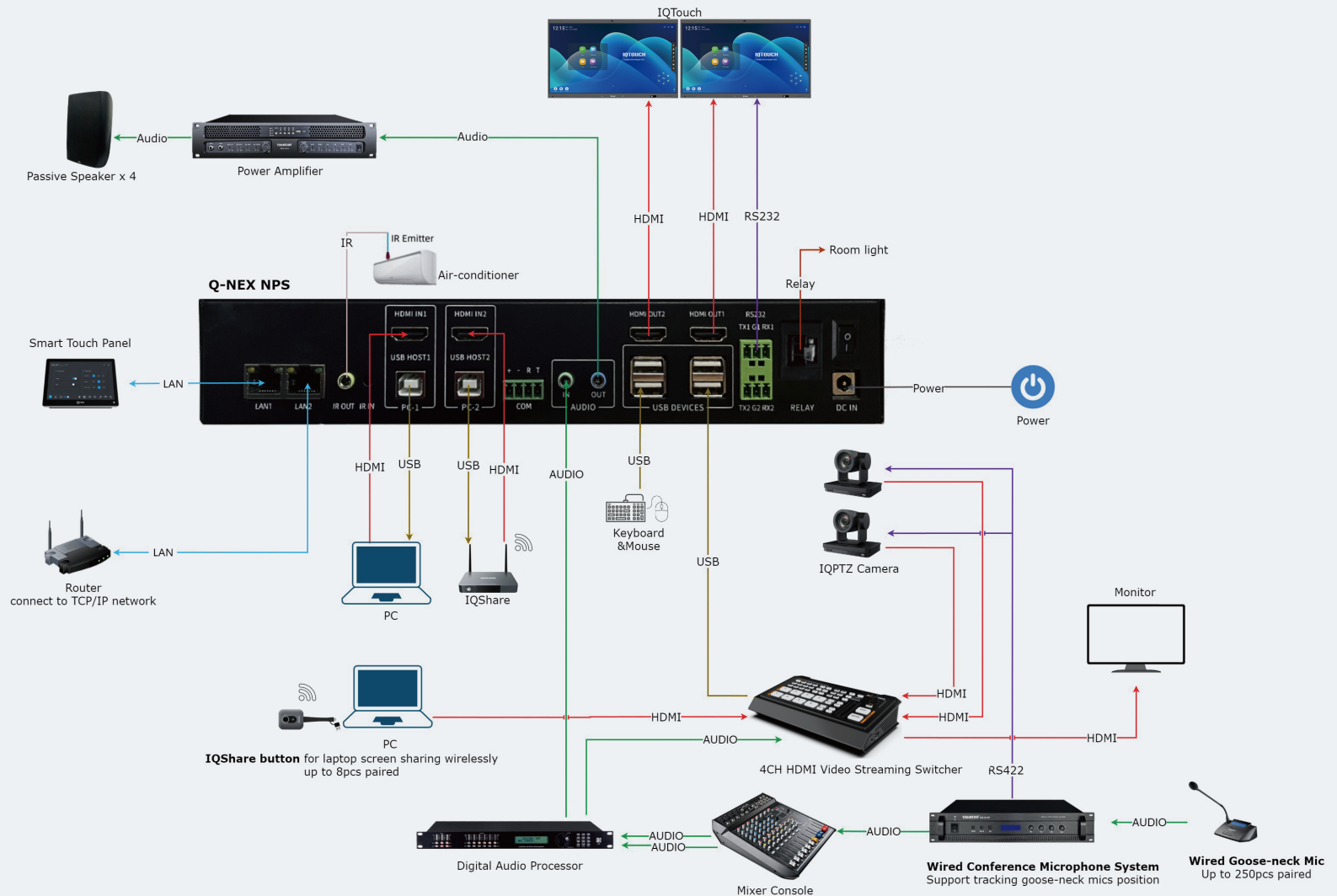
Capacity
20-50 people



Solution Topology(Wireless Microphone System)



Solution Topology(Wired Microphone System)



Functions



Intelligent Wireless Mic System



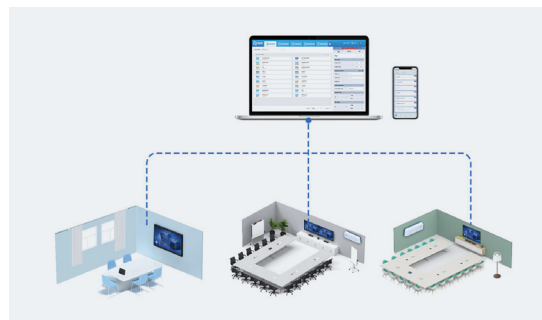
Camera Tracking the Active Speaker



Central Control by Touch Panel



Online Meeting Support



Remote Control of Meeting Room Device



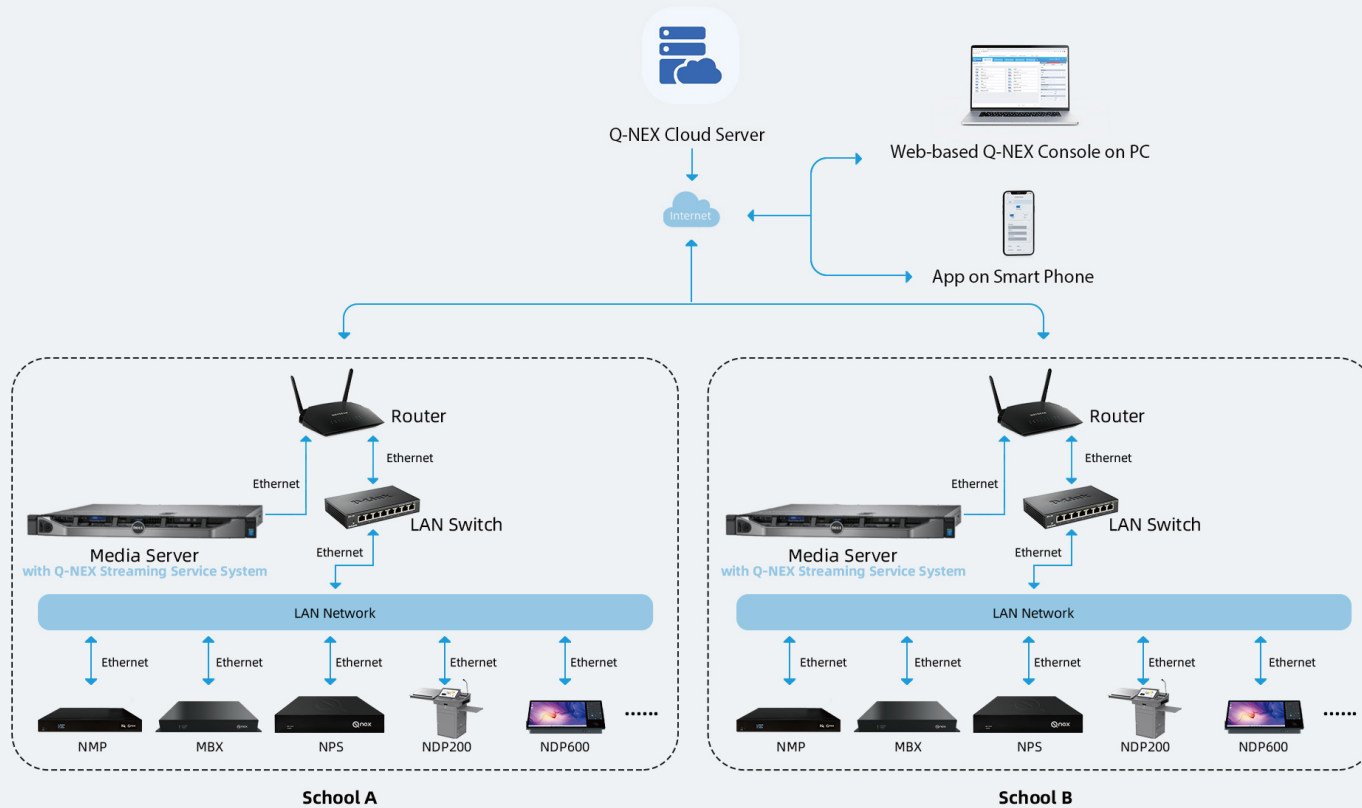
Local Audio Amplification

Recommended Products

Q-NEX NPS 	IQTouch 	IQShare Button 	IQShare 	IQMeet Camera 	IQSound 
Mixer Console 	Wired Conference Microphone System 	Wireless Conference Microphone System 	Power Amplifier 	Digital Audio Processor 	HDMI Video Streaming Switcher 

03 KEY PRODUCTS

The Main Elements in Q-NEX Solution



- **Q-NEX Platform** - system management on Cloud Servers
- **Media Server** - AV broadcasting/ live streaming on LAN
- **Q-NEX Terminal Units** – NMP(Networked Media Processor)/ MBX(Media Box)/NPS(Networked Presentation Switcher)/ NDP(Networked Digital Podium & Desktop Digital Podium)

Q-NEX Platform

Q-NEX Platform is the core player in the whole Q-NEX solution, it is a management platform for all Q-NEX terminal units. Since it is deployed on Cloud servers, users can access to it by Internet to manage their own Q-NEX terminals through Web browser on PC or APP (Android or iOS) on smart phone.

Q-NEX Platform consists of **Dashboard** and **Console**.

Q-NEX Dashboard

Q-NEX Dashboard is mainly for administrator to manage the organization structure, user privilege, Q-NEX terminal units, IC card permission, media server configuration, user storage distribution etc. And they can regulate the whole system through the Internet.



Device Data
Analysis



User
Management



Card
Management



Device
Management



Media Server/
Cloud Storage Management



Devices Data Analysis

The screenshot shows the Q-NEX Console 'Device Management' page. It contains a table with columns: Device Name, Status, Groups, Video Switch, Audio Control, Power Control, RS232, and IR. The table lists various devices like 'H-Class 1 Group 2.5', 'H-Class 2 Group 3.10', etc., with their respective status and control options.

Devices Management

The screenshot shows the Q-NEX Console 'Users Management' page. It contains a table with columns: Q-NEX ID, Name, Employee ID, Role, Phone, Email, Status, and Group. The table lists users like 'Jing', 'Kaitian', 'Tao', 'Yan', 'Bao', 'Chen', 'Daming', 'Kuang', and 'Tao' with their respective details.

Users Management

Q-NEX Console

Q-NEX Console can be accessed through browser or mobile App, so that users can operate anytime and anywhere over all connected devices.

• Web-based Console

Users can log in at <https://mg.qnextech.com/console/login> on their personal computer with an authorized account to get access to the web-based console.



Remote Device Control

IT administrators can manage campus devices through laptops or mobile phones when they're on business trips or leave.



Campus Broadcast

Admins can play music during after-class time, listening comprehension tests and campus notifications/announcements, etc.



Schedule List Setting

All devices on campus/organization can be set to turn on before school/meeting and turn off afterward, and ring school bell, play music or video for class automatically from Monday to Friday during a semester.



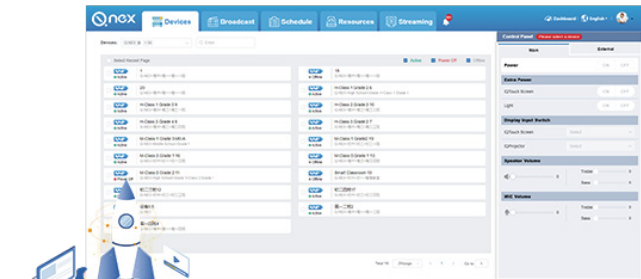
Cloud Storage

IT admins have the authority to allocate public and individual storage, which will make it easier for teachers to share curriculum resources and coursewares in the school.

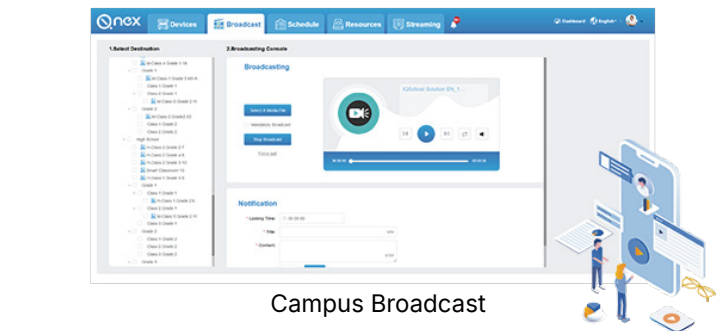


Live Streaming

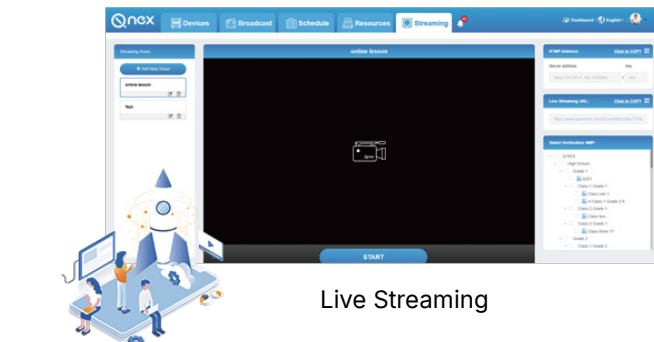
Create a live public address of a principal, broadcast campus events to TVs in classrooms or school auditoriums, and emergency notifications by broadcasting.



Remote Device Control



Campus Broadcast



Live Streaming

• App Console



Device Control

The Q-NEX App turns your mobile device into the ultimate mobile control panel, enabling control of classroom multimedia devices, lighting, A/C, access control, and other systems from virtually anywhere.



Report A Repair To The IT Admin

Report to IT admin by mobile when devices can't work. It's convenient for teacher to report rapidly and for IT admin to follow up the process of repair.



Display Input Switch

Flexibly switch the input sources of multiple display devices in the classroom and adapt to different teaching scenarios, which is easy to use.



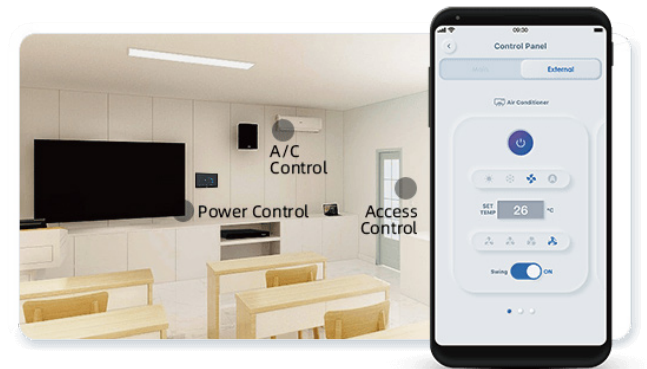
Campus Broadcast

IT admins can realize audio and video broadcasts on the APP as well as on web-based Console.

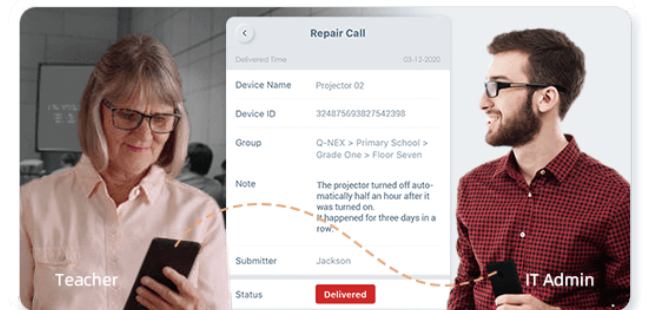


Schedule Tasks

All scheduled device control and broadcast tasks can be seen on the APP for a quick check.



Device Control



Report A Repair To The IT Admin



Display Input Switch

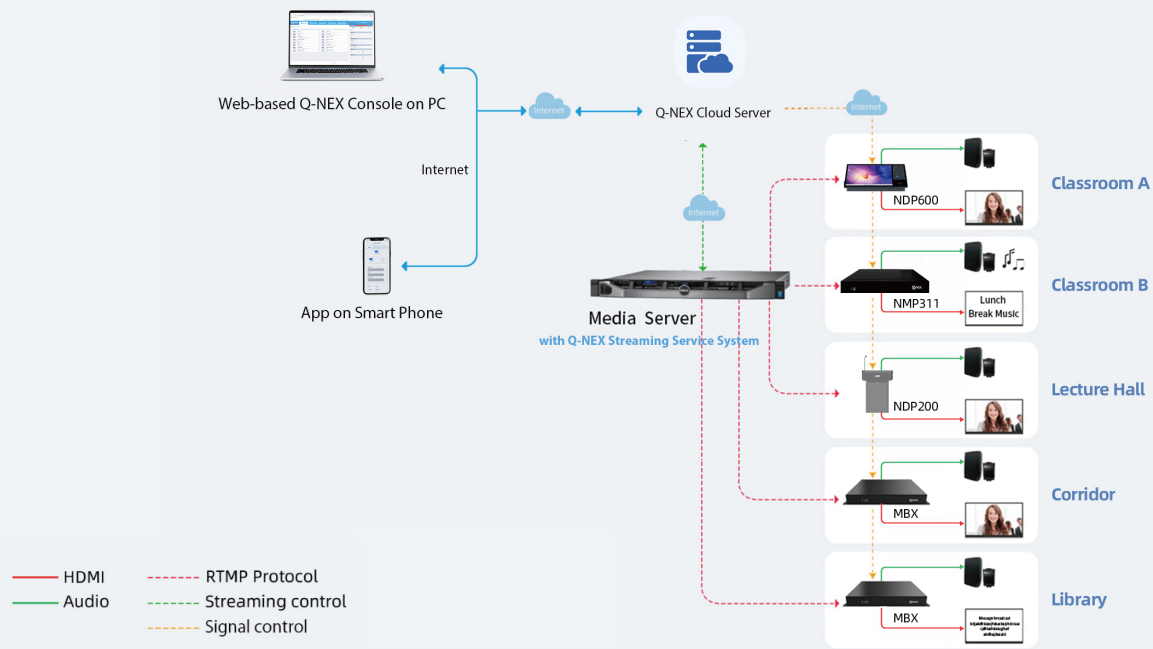
Media Server (Optional)

A media server is required primarily for the storage and distribution of audio-visual (AV) content within a campus LAN(Local Area Network).



Outline of the Working Principle: A media server with Q-NEX streaming service software installed, can receive instructors from Q-NEX Platform by Internet, to distribute AV contents on the media server to the designated Q-NEX terminal units NMP-G/MBX/NDP.

Based on a scalable network framework, Q-NEX solution allows the Media Server to be deployed over private network or public network for AV distribution.



Q-NEX Terminal Units

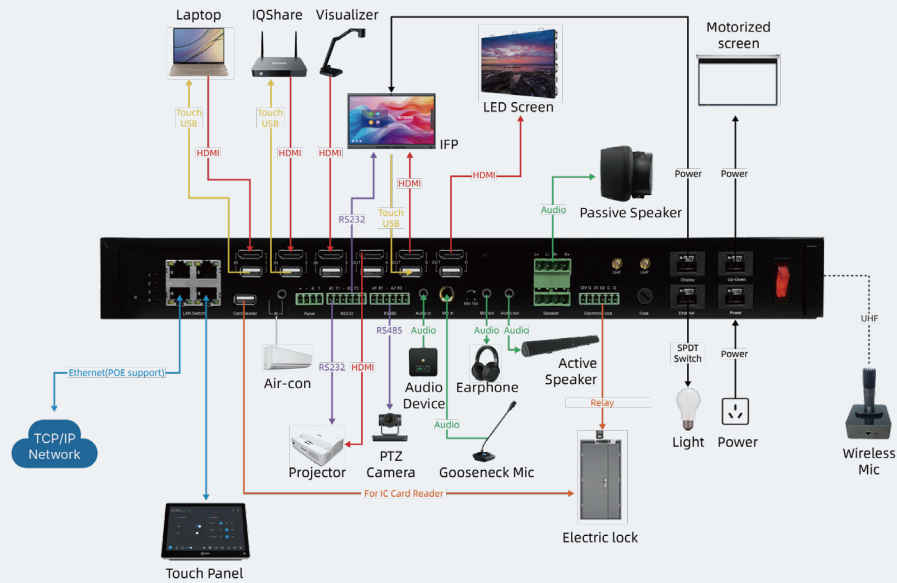
Q-NEX Terminal Units consist of Q-NEX Networked Media Processor, Q-NEX Networked Digital Podium, Q-NEX Media Box, Q-NEX Networked Presentation Switcher, and Q-NEX Desktop Digital Podium at present. They can be controlled by Touch Panel installed in the room, laptop or smart phone through Internet anywhere and anytime.

Networked Media Processor

Q-NEX Networked Media Processor connects independent AV equipment and other devices to build a networked system, empowering campus all-round centralized device control of IoT ecosystem, in the meanwhile, it can also work as a networked AV decoder to process pre-recorded or live AV signals distributed from the Q-NEX Platform.



NMP311



Connected Devices for NMP



Functional Modules Integrated in the NMP



Integrate multiple devices and functions into one single system.



Centralized control of AV and commonly used devices in classrooms.



Networked device deployment that enables remote control and management of all the devices through the Internet or Intranet.



Networked AV decoder to process AV signals distributed from Q-NEX Platform, including instant and scheduled AV distribution tasks.

Networked Digital Podium



Device Control at One Stop

Converges multiple multimedia devices for simplified and seamless control at one stop. Making all the device control near at hand.



Unified Connectivity

The Q-NEX Networked Digital Podium NDP100 offers abundant interfaces, including AV and control ports. Ensuring effortless connectivity for presenters, and allowing seamless integration regardless of the type of computer they bring.



NDP200



Effortless AV Contents Switch

4X4 AV matrix switch and seamless touch-following to the big screen. Better engage and ignite students learning enthusiasm with continuous flow of enriched audiovisual resources with timely annotation.



Stay Connected with Whole Campus

Reliable and automatic playing of campus-wide AV broadcasting and live streaming for school announcements, important notifications, lectures, special events and so on. Always stay connected with the whole campus. (Media server required)



Easy Device Integration and Upgrade

Easy integration with various types of multimedia devices, allowing continuous classroom hardware upgrade or expansions.



Hybrid Learning Across Campus and Beyond

Convenient live streaming of lectures across the classrooms throughout the campus and to those online remote learning students. Maximize the teaching resources, teaching efficiency, and education equality.



Maximized Efficiency

Support automation schedule for the device to power on or off at a predefined time. Saving energy and reducing workload.

● Inside the Q-NEX Networked Digital Podium

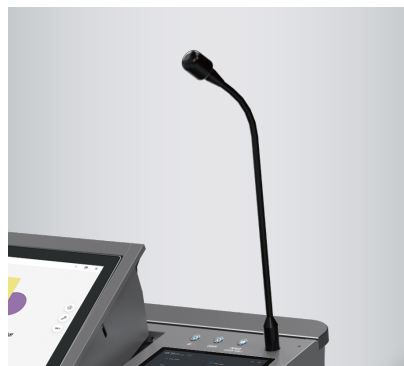
Q-NEX Networked Digital Podium NDP200 incorporates Network Media Processor (NMP), Touch Panel for control, wireless mics, interactive pen display for annotation, built-in PC, document camera, wireless charging area, gooseneck microphone and abundant AV and control interfaces in a stylish lectern. It is capable of integrating with in-room multimedia devices with its universal AV ports, LAN switch, AV matrix switch, wireless mic system, AV decoder, power relay, serial control module, digital amplifier and so on for centralized and remote-control management.



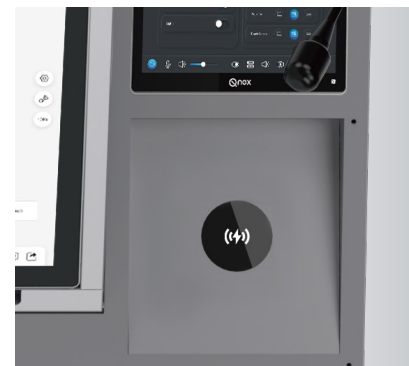
Interactive Pen Display



Touch Panel



Gooseneck Microphone



Wireless Charging



Abundant Interfaces



Networked Media Processor



Document Camera(optional)



Built-in PC

*A (Lite) Media Server is required for pushing AV broadcast and live streaming to the networked digital podium.

Desktop Digital Podium



Capacitive Pen &
Finger Touch



Remotely Control
from Anywhere



Dual Screens with
Optical Bonding



AV Broadcasting and
Live Streaming



30°-50° Screen
Adjustment



Wireless Microphone &
Sound Amplification System



4x4 Seamless
Switching



Unified Device Control from
Local and Network



Handy Use on the
Built-in Computer



Maintenance-Friendly
LED Status Display

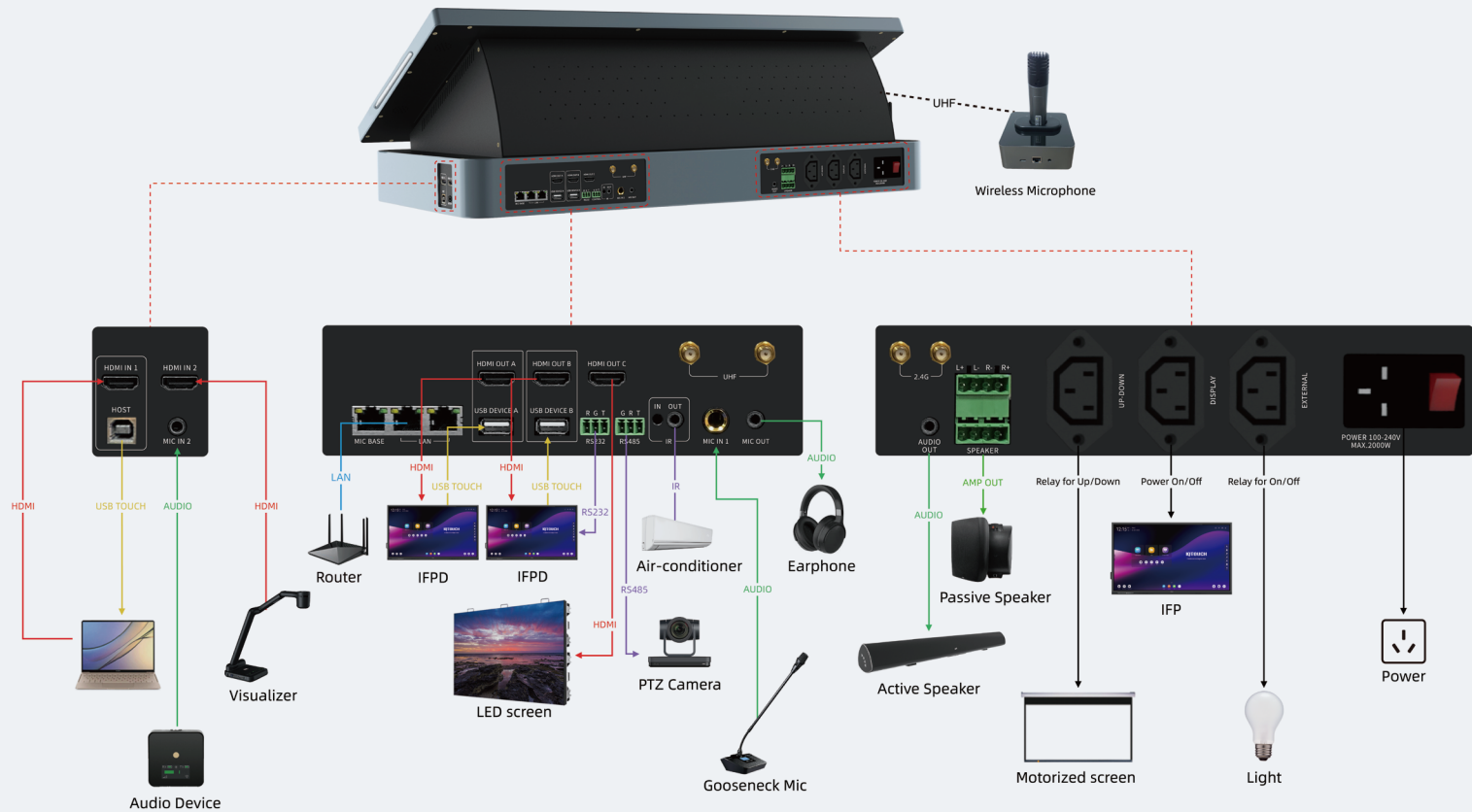


NDP600



*A (Lite) Media Server is required for pushing AV broadcast and live streaming to the desktop digital podium.

• Device Application Connection



Networked Presentation Switcher



BYOD&BYOM for Enhanced Collaboration

Enabling plug-and-play screen sharing for local conferences and utilizing cameras and microphones for online conferences.



4K AV Matrix Switcher with KVM Functionality

Featuring a 2×2 matrix switcher with high-resolution capabilities up to 4K@60Hz 4:4:4 in HDMI format with KVM functionality.



Intuitive Smart Control with Touch Panel

Integrate in-room devices such as lights, air conditioners, electric curtains, interactive flat panels, PTZ cameras ,etc. easily, all controlled through a user-friendly Touch Panel.



Remote Control Anywhere, Anytime

Remote control is accessible through Web-based Console or APP, enabling pre-meeting setup of conference room devices and efficient post-meeting power management.



Centralized Conference Room Control & Management

Through Q-NEX platform, enterprise IT administrators achieve centralized control of multiple meeting rooms, allowing for unified management across the organization.

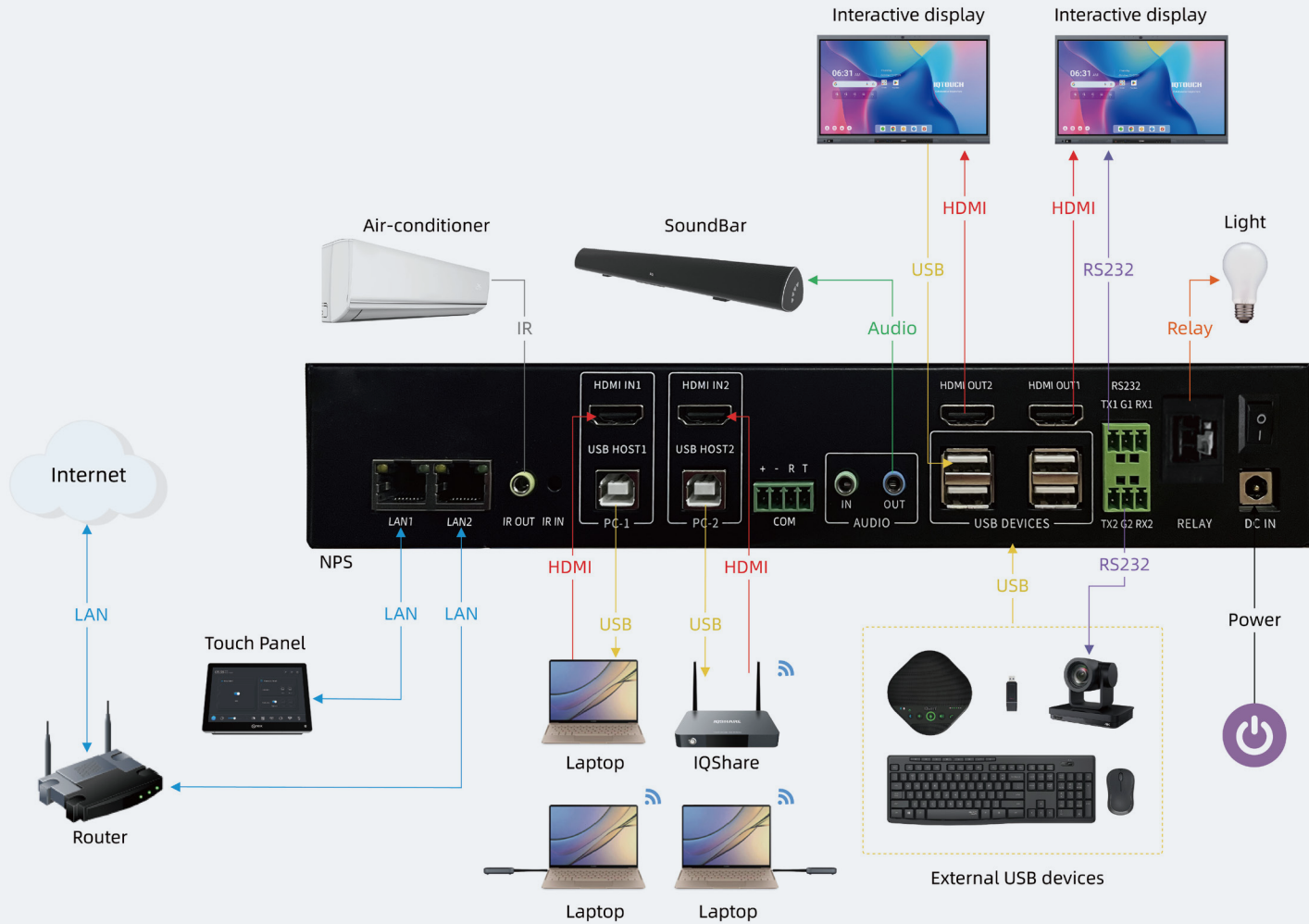


Elegant Size for Easy Installation

With its compact and elegant dimensions, Q-NEX presentation switcher NPS100 ensures easy installation into racks, making it ideal for under-table installations.



• Device Application Connection



Room Scheduler

Designed for a seamless scheduling experience, Room Scheduler CPL50 features a large 10-inch touchscreen, making it easy to view meeting details and book rooms for impromptu or future meetings. With built-in check-in functionality, users can quickly confirm attendance via a QR code. Additionally, Room Scheduler CPL50 supports information display, ensuring meeting schedules are always visible. Its sleek, lightweight design complements a variety of spaces, enhancing both functionality and aesthetics.

• Features



Seamless Microsoft 365 integration with real-time synchronization of Outlook and Teams meetings.



Effortless meeting room booking with real-time availability at a glance.



A high-visibility LED bar shows room status for seamless room scheduling.



Quick check-in with a QR code scan, making access to meetings easier.



Stay updated with key details for smarter conference scheduling.



CPL50

Media Box

Q-NEX Media Box (MBX) is made for creating the network broadcasting of smart campus, which applies to audio and video distribution outside classrooms: corridors, canteens, libraries, etc. MBX can receive not only scheduled broadcast tasks for audio, video and message broadcasts but also live streaming audio or video content in every corner of the campus.

• Features



Cooperate with Media Server to form a converged system with broadcast function and low cost in implementation.



Support up to 1920*1080 HD audio and video broadcast signals as well as text broadcast with low latency.



Support receiving audio live announcement and video live streaming smoothly without stuttering.



Support scheduled tasks for audio and video broadcast; Support broadcasting different audio and video content to selected zones.



Support automatically turning on the display device when broadcasting; support power control of the display device through App/Web.



Support unified remote management and control on the Q-NEX Console through the Internet without restrictions of time and place.



MBX100



Control Box

As the wireless control module of Q-NEX terminal device (NMP/NDP100/NDP500), Q-NEX Control Box (CBX) easily realizes the remote control of campus electric devices (e.g. air conditioners, lights, electric curtains, projectors and monitors) through 2.4GHz wireless transmission.



Wireless Connection

Connect to Q-NEX terminal device(NMP/NDP100/NDP500) through 2.4G wireless transmission. Convenient installation without wiring or change of existing electric lines.



Unified Control

Remote control anytime and anywhere on unified Q-NEX Console through the Internet.



Multiple Control Interfaces

Wireless control of various devices with RS232, IR, and Relay interfaces.

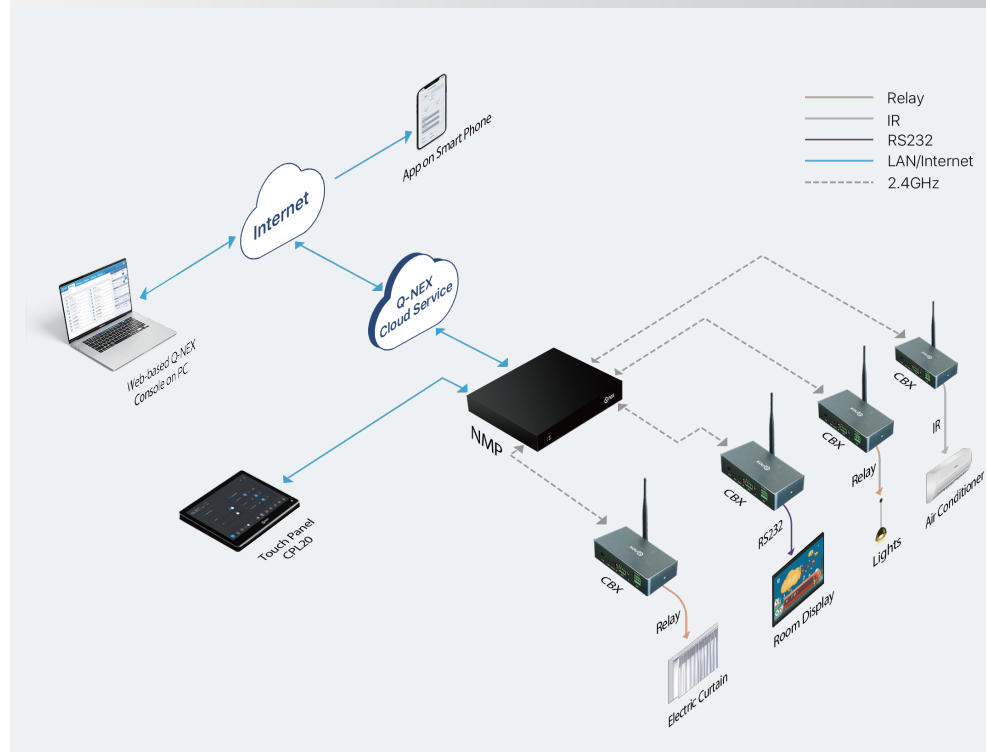


Device Control Extension for Q-NEX Terminal Devices

CBX is an extension of control interfaces of Q-NEX terminal device(NMP/NDP100/NDP500), and each Q-NEX terminal device can be connected to 4 additional CBXs.



CBX200



*Q-NEX CBX is recommended to be used as wireless extension control for Q-NEX NMP and Q-NEX NDP.

04 CASE STUDIES

Global Adoption of Q-NEX's Smart Solutions in Education and Conference

As Q-NEX products and solutions are known widely in the global markets, more and more schools and educational institutions have started to adopt Q-NEX's complete solutions in their smart campus projects. Shared below are some successful cases related to education and conference scenarios that Q-NEX has done around the world.





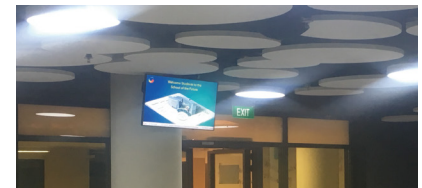
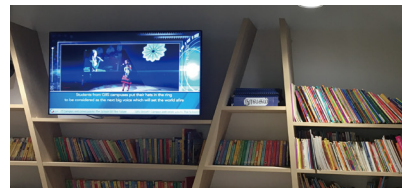
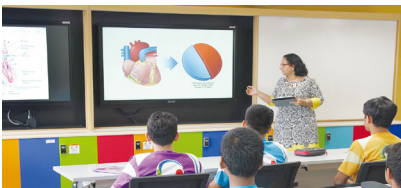
Global Indian International School (Singapore SMART Campus)

Global Indian International School (GIIS) is an international network of award-winning schools with 64 campuses across 11 countries.

GIIS Singapore new campus has started construction work of two main buildings since 2016. With the aim of building a school with state-of-the-art technology, the school IT team came to us. We offered them a proposal for the smart classroom and smart campus development.

Customized System for GIIS New Campus

- IQTouch Interactive Flat Panel & IQ Interactive Education Platform Software for interactive teaching environment.
- Q-NEX Networked Media Processor & Q-NEX Console for centralized and remote control of classroom devices.
- Easy management of classroom devices.
- IT admin can set scheduled task to power on / off classroom devices for auto management.
- To broadcast different video content to different areas like libraries or corridors.
- The school IT admin can also customize the school bell tone and schedule the ringing time, or even make a playlist of school music to be broadcasted to different groups of classrooms during lunch break.



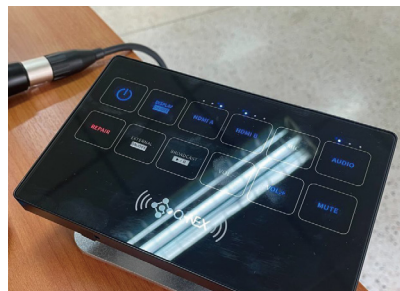
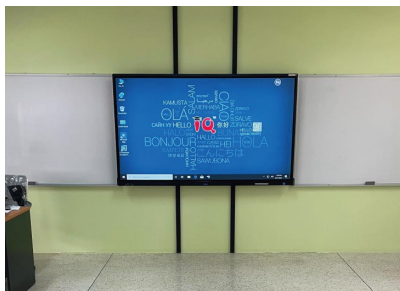


Uttaradit Rajabhat University of Thailand

Uttaradit Rajabhat University (URU) is one of the prestigious universities under the Rajabhat system, which is located in north of Bangkok, Thailand. With the continuous development of the university, URU has built a new 5-story teaching building in 2021 with over 50 classrooms, seminar rooms and computer labs for expanding teaching and learning spaces.

Start for transforming URU into a smart campus with digital integration and system automation.

Realize central device control in classroom as well as AV broadcasting and real-time live streaming throughout the campus.





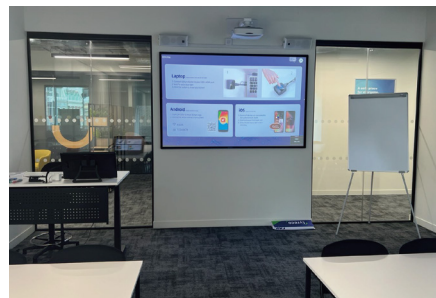
BPP University

With the increasing number of enrolments, BPP University has grown at a rapid pace. Meanwhile, it has greatly stimulated the demand for campus expansion, space construction, public infrastructure, and classroom ICT facilities.

For a large amount of complex school equipment, an IoT-based campus with digital transformation and cloud centralized device control is extremely required.

Q-NEX Solution to Build A Smart School

- Faculty-Friendly AudioVisual Sharing Environment
- IoT-Based School Device Management
- New Concept of "Divisible Classroom"
 - (1) One Classroom with Partition for Multipurpose Application.
 - (2) Multiple Classrooms with Device Independent Control / Full Control.
 - (3) AV Broadcast and Central Control in Divisible Classrooms.



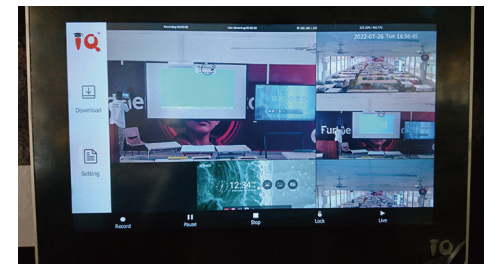


Kwame Nkrumah University of Science and Technology

KNUST is a public university in Ghana that focuses on science and technology. As an academic center spearheading West Africa's pursuit of technological advancement, KNUST makes an effort to improve its learning environment with state-of-the-art education technology, starting from the lecture hall to most of the classrooms.

Within the university, there's a special lecture hall sponsored by Vodafone. It has only one projector and a projection screen for presentations. However, this room can accommodate over 50 students, making it challenging for those in the back to see the teacher's content on the screen. Additionally, the KNUST administration aims to enhance teaching resources by recording excellent lectures and exploring hybrid learning. The Q-NEX solution offers the following features

- Multiple displays
- Interactive teaching
- AV matrix switch
- Comprehensive classroom audio
- Lecture recording and online teaching capabilities





Mekdela Amba University

Mekdela Amba University was established as a result of the Ethiopian government's endeavor towards realizing the country's renaissance through educating the generation. It is one of the eleventh newly established public higher learning institutes in the country. Aspired to be the best university in Ethiopia by 2025, MAU has been under an ongoing construction of different building complexes and infrastructural development since its establishment. With the trend of education technology spreading to the Horn of Africa, MAU has decided to take its first step towards smart campus.

MAU implemented an all-in-one solution to enhance teaching with Q-NEX tech. They've equipped each classroom with essential tools like interactive displays, teacher laptops, document cameras, and a lecture capture system. Moreover, to simplify user operation and centralize control, they've installed a Q-NEX Networked Media Processor (NMP) in each classroom, which offers these functions:

- AV Matrix Switching
- Integrated Audio System
- Centralized Power Control and Device Control
- Lecture Recording and Live Streaming
- AV Distribution over IP on Campus

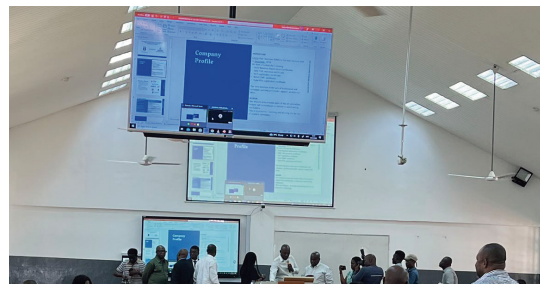




University of Ghana

As Ghana's largest and oldest university, the management aims to enhance its hybrid learning offerings during the university's 75th anniversary. They plan to provide engaging and interactive hybrid classes, reaching both on-campus and online students, extending the benefits of hybrid learning across the campus and beyond.

- Centralized Device Control over the Internet
- Seamless Display of Diverse AV Contents
- Convenient and Immersive Hybrid Learning
- Control Room Devices by Schedule and Execute Automatically
- Campus-Wide AV Distribution and Notification Push

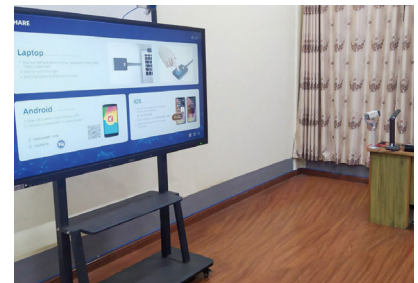
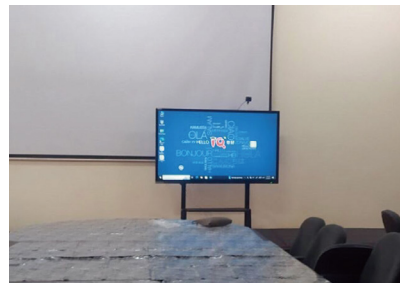
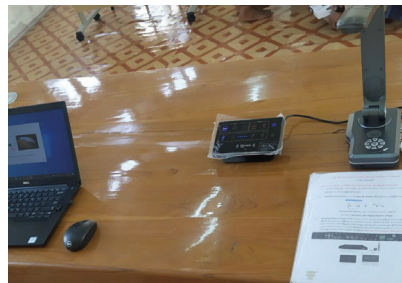
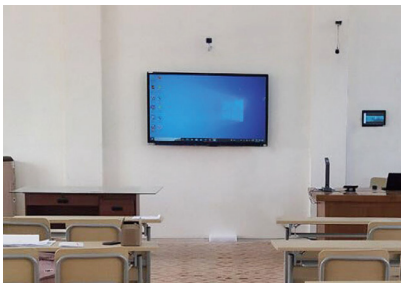




Myanmar MOE

Myanmar's Ministry of Education (MOE) is modernizing sixty top technical universities to enhance education quality. They aim to create highly automated campuses with improved interactions, teaching materials, and methods, working with Q-NEX to benefit students, educators, and staff, ultimately boosting the country's development with a highly educated workforce.

The Ministry of Education in Myanmar faces the challenge of modernizing its traditional teaching methods, which lack modern tools. The solution involves equipping universities with multimedia devices, centralized control, and automation to create a more engaging and fair learning environment. Q-NEX assists with smart classrooms, interactive learning, hybrid education, AV broadcasting, and automation, making Myanmar's education more inclusive and technologically advanced.



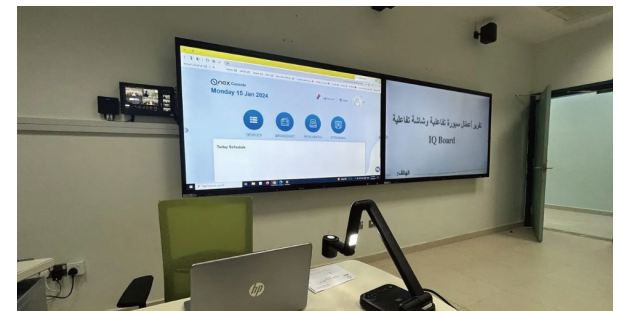


Jazan University

Jazan University is committed to providing quality education and fostering a thriving research environment. Jazan University, with its dispersed buildings, faced challenges in managing equipment and facilitating seamless teaching across different locations. The university turns to the Q-NEX team for a unified management solution to bridge geographical distances and enable the efficient sharing of educational resources.

For individual classrooms, each is equipped with a Q-NEX NMP, IQVideo LCS710 Pro, IQView E4521, and IQTouch interactive displays, creating a classroom environment with multimedia, smart control, lecture recording functions enabled, and a user-friendly interface.

For inter-classroom situations, Q-NEX's ability to seamlessly connect classrooms stands out. Live streaming capabilities enabled real-time sharing of lectures across the two pilot classrooms, regardless of their physical distance. This feature addressed the university's concerns about resource sharing and reduced the transportation burden on students.





Makerere University

As East Africa's top-ranked institution, Makerere University aimed to enhance its learning experience through a major facility upgrade. The focus was on modernizing the Davies Lecture Theatre, a 200-square-meter hall with a 150-student capacity, by integrating advanced audio-visual technology.

The university implemented the Q-NEX system, enabling campus-wide broadcasting, centralized control of lecture hall devices, automated lecture recording and streaming, and interactive teaching tools. The solution improved hybrid learning capabilities, operational efficiency, and student engagement, laying the foundation for a smart campus expansion.





GBS TechSpace

GBS TechSpace, a modern business hub developed by Penang Development Corporation, serves multiple tenants with collaborative workspaces and technology-ready infrastructure for Malaysia's growing Global Business Services sector. With high demand for shared meeting rooms, the facility faced frequent booking conflicts, limited visibility of real-time room status, and operational inefficiencies, including ghost bookings and underutilized spaces.

To address these challenges, GBS TechSpace deployed Q-NEX CPL50 Room Scheduler across key meeting areas. This Q-NEX Solution provides the following features:

- Real-time Availability Display
- Integrated Calendar Sync
- Centralized Management
- Modern Aesthetic

