

Q-NEX NDP600 Desktop Digital Podium

The Future of Smart Lecturing Starts Here



Product Overview

The Q-NEX NDP600 is an all-in-one desktop digital podium designed to redefine classroom and lecture hall engagement. Seamlessly integrating AV switching, local and remote device control, interactive pen display, audio processing, and campus network broadcasting, the NDP600 brings powerful functionality into a single, elegant workstation. It is purpose-built for educators, presenters, and administrators who demand efficiency, interactivity, and control.

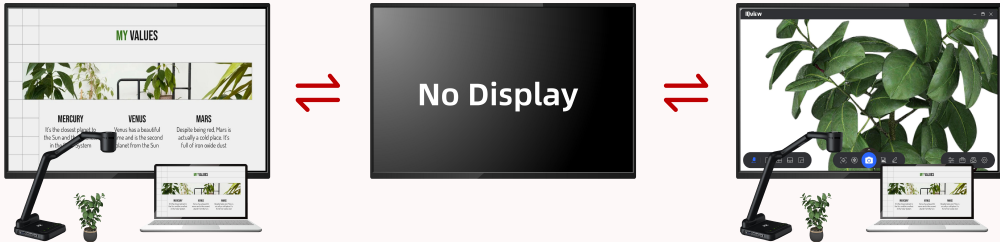


Lightning-Fast Switching, Uninterrupted Display

The NDP600 redefines seamless AV performance with its advanced 3x3HDMI matrix switch (with 2 External Inputs & 1 Built-in PC Input), enabling input transitions as fast as a blink. Say goodbye to blackouts and delays—experience smooth, real-time switching for flawless presentations. Whether in meetings, lectures, or live events, ensure a professional, uninterrupted viewing experience every time.



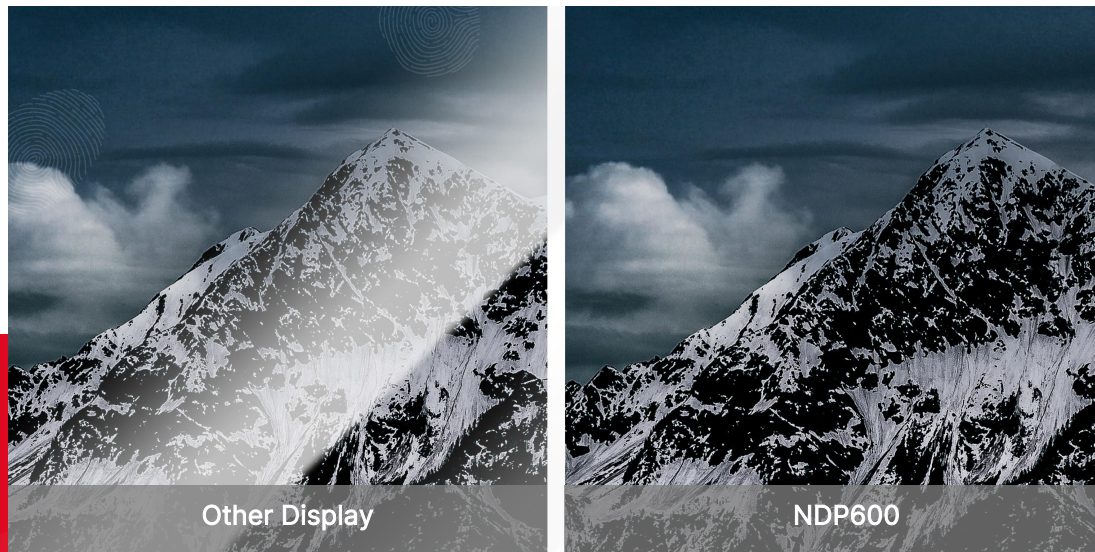
Seamless Switching



Normal Switching

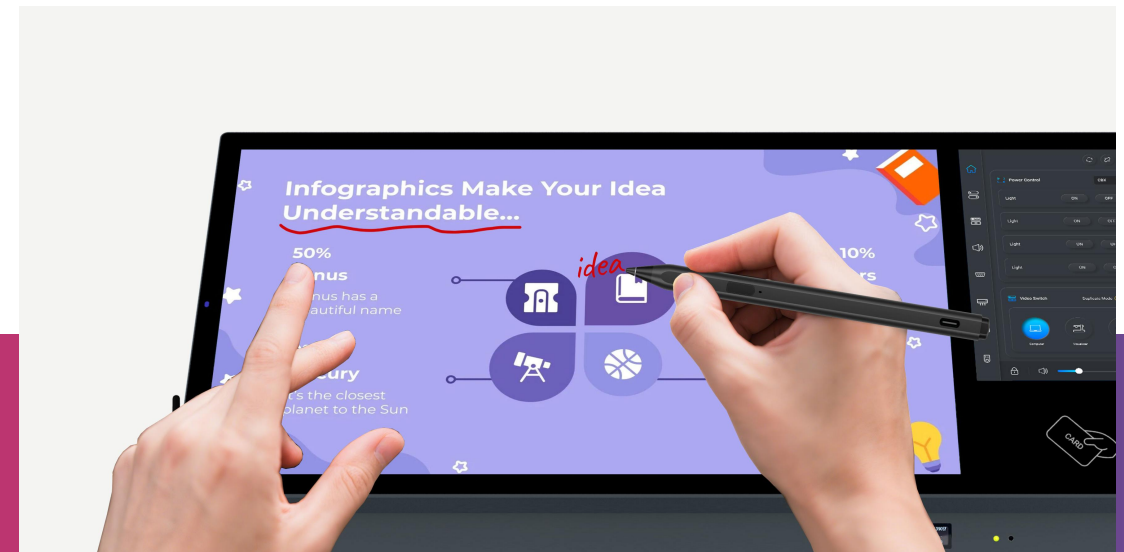
Interactive Pen & Touch Display

The NDP600's integrated pen display supports both finger gestures and active stylus writing. Teachers can write, click, zoom, and navigate directly on the screen—just like using a tablet. This intuitive interface keeps focus where it matters: on teaching and engagement.



- **Optical Bonded Display Surface**

The display features Optical Bonding for sharper visuals, reduced condensation, and enhanced durability. An Anti-Glare (AG) coating minimizes reflections, while an Anti-Fingerprint (AF) layer helps keep the surface clean and smudge-free—ideal for prolonged classroom use.



- **Simultaneous Touch & Pen Input**

Powered by active capacitive technology, the NDP600 allows users to write with the pen while using touch gestures like zooming or navigating with the other hand—without interference. This smooth, dual-input interaction supports fluid teaching and efficient multitasking at the podium.

● Smart Stylus for Seamless Writing

The NDP600 includes a Microsoft Pen Protocol (MPP) stylus designed for high-precision interaction and writing on Windows platforms:



Natural Handwriting Experience: 4096 pressure levels allow smooth strokes for drawing, annotating, and highlighting.



True Palm Rejection: Teachers can rest their hands on the display without input errors.



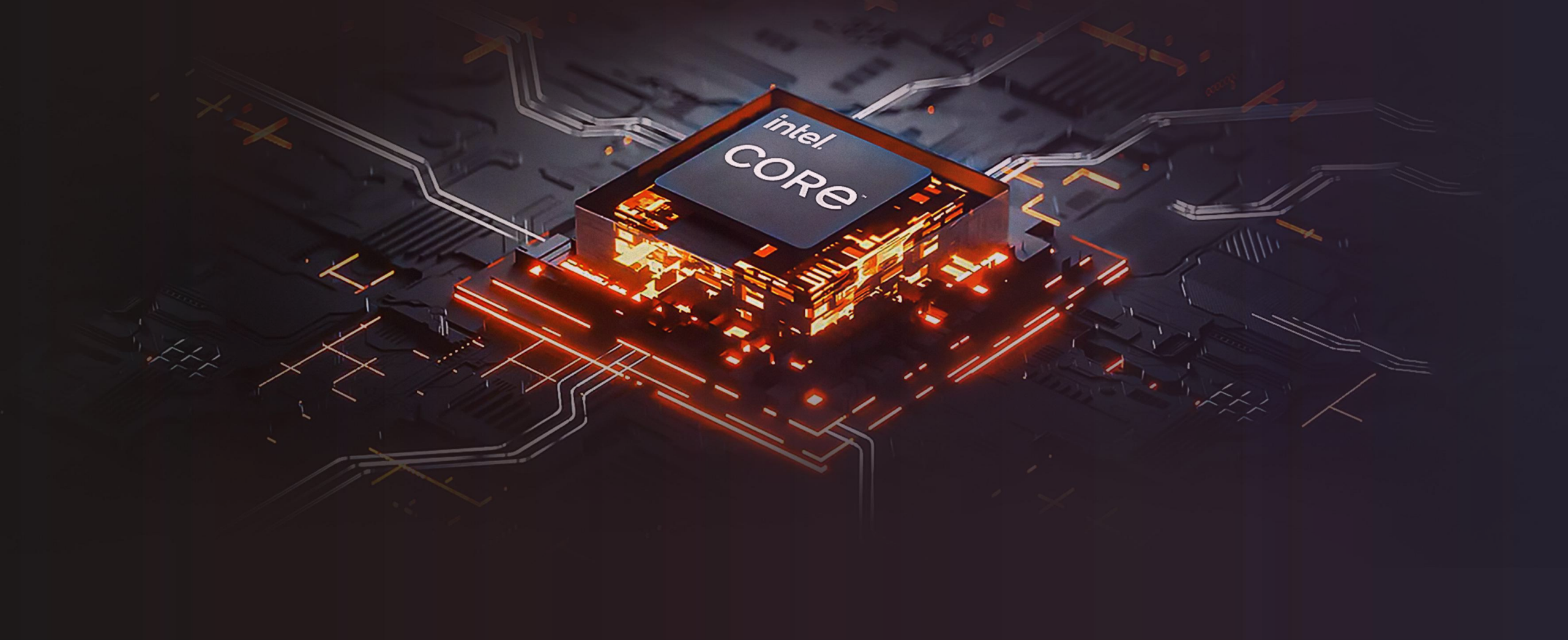
Dual-Handed Operation: Perform gesture controls with one hand while writing with the other—boosting speed and engagement.



Instant Use: No receiver, driver, or Bluetooth pairing required—simply pick up the pen and start writing.



Seamless Integration with Windows Ink: Ideal for OneNote, Whiteboard, PowerPoint, and other teaching tools.



Built-In PC

Intel® Core™ i5 | 8GB RAM | 512GB SSD

No more connecting external laptops or cluttering the desk with extra equipment. The NDP600 features a high-performance built-in PC that powers the interactive pen display. It simplifies classroom setup, saves space, and ensures a seamless, ready-to-use experience for every session.

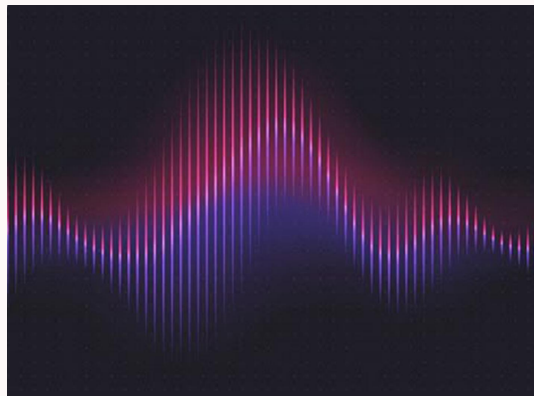


Maintenance-Friendly LED Status Display

To support easier after-sales service, the NDP600 includes a built-in 1.3-inch (2:1) LED screen that displays firmware version information. This compact screen allows technicians to quickly verify system status and firmware during maintenance checks.

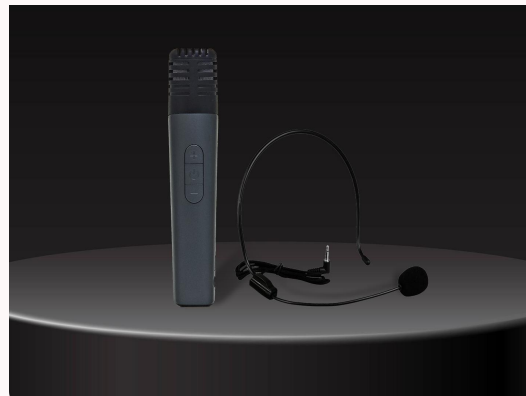
Wireless Mic & Built-In Amplification System

The NDP600 brings everything together for powerful in-room sound. A handheld microphone with charging base connects smoothly through the built-in wireless receiver with dual exposed UHF antennas. An integrated amplifier powers rich, clear audio through the speaker system, delivering effortless voice amplification in any classroom or lecture space.



● Clear, Crisp Audio

The integrated audio system delivers high-quality sound with minimal distortion and low latency for uninterrupted audio.



● Compact & Hands-Free

A small, lightweight microphone with a head-worn accessory for free movement and comfort.



● Easy IR Pairing

Quick and simple connection with infrared pairing technology.



● Rechargeable

Up to 6 hours of battery life with convenient base charging.

Smart IoT Control & Automation

Centralized Classroom Device Control

The NDP600 acts as a central controller for all AV and environmental equipment in the classroom. Through its touch panel, teachers can easily operate interactive displays, projectors, screens, document cameras, speakers, microphones, lights, air conditioners, and electric curtains—all from a single interface.





Smart IoT Control & Automation

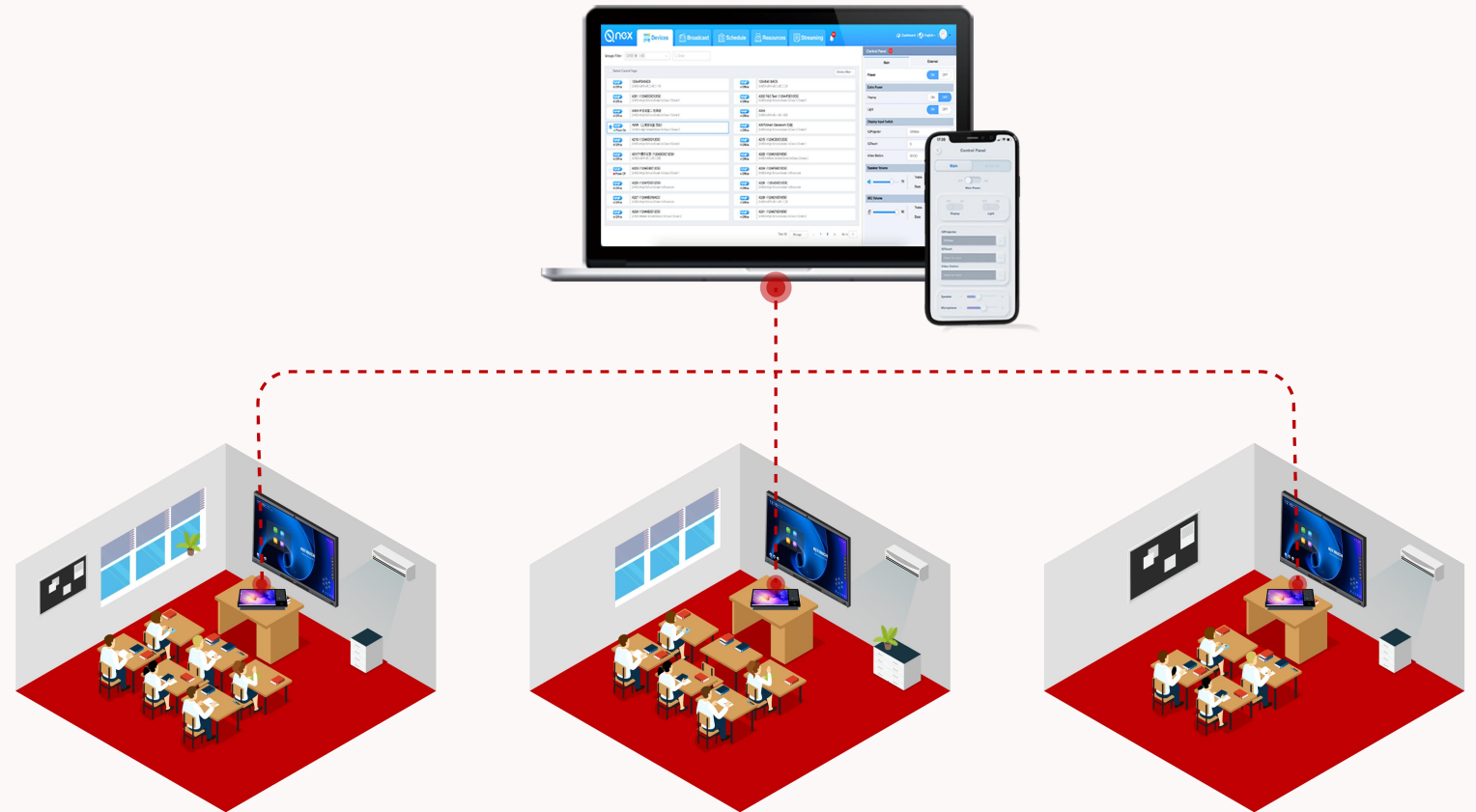
One-Touch Power Control

With a single tap, educators can power on or off classroom displays and lighting systems. The ability to activate multiple devices simultaneously simplifies lesson preparation and supports efficient class transitions.

Smart IoT Control & Automation

Remote Scheduling for IT Admins

IT staff can remotely manage device power settings across multiple rooms using the Q-NEX Console. Scheduled automation ensures classrooms are prepared before lessons begin—lighting, air conditioning, and displays can all be preset according to school timetables.





Smart IoT Control & Automation

Audio Control at Your Fingertips

Teachers can conveniently mute microphones or adjust speaker volume without leaving the podium. The touch panel serves as a central hub for in-room audio adjustments, reducing the need for separate control tools.

Smart IoT Control & Automation

Smart Projector & Screen Control

For classrooms using projectors, the NDP600 allows teachers to control both the projector and motorized screen from the touch panel. Even without interactive displays, teachers can write annotations on the digital podium display and project them for the entire class.



Smart IoT Control & Automation

Intuitive Air Conditioner Management

Manage temperature, fan speed, and operation modes with precision—right from the podium. The air conditioning interface mirrors the familiar experience of using a remote control while consolidating functions into the centralized system.





Smart IoT Control & Automation

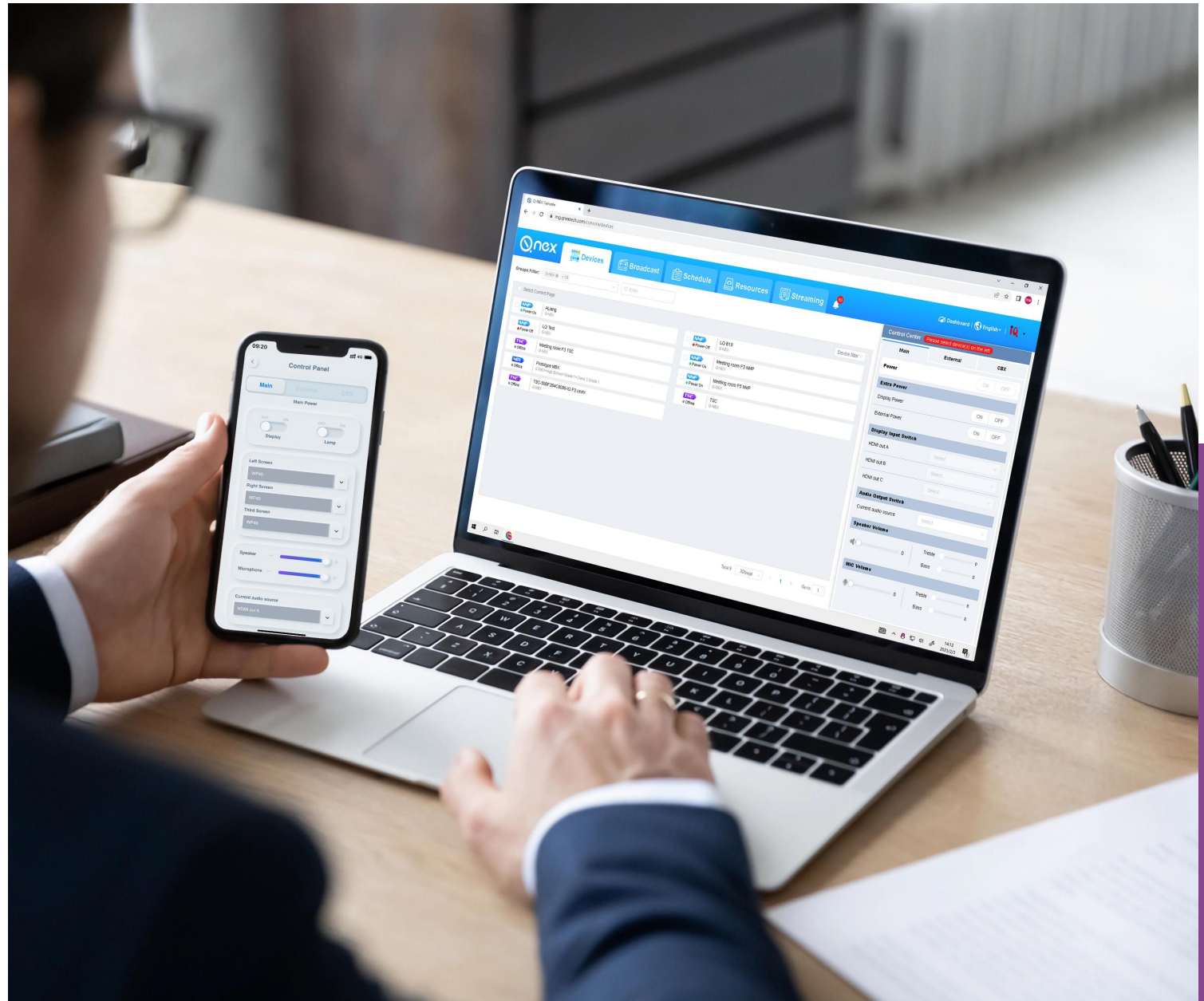
Touch Panel Lock & Access

After class, the touch panel can be locked to prevent unauthorized use. Faculty members can easily unlock it using an IC card, ensuring both convenience and classroom security.

Smart IoT Control & Automation

Web & App-Based Remote Control

All control features are mirrored on the Q-NEX Console, accessible via web browser or mobile app. From a single dashboard, IT administrators can monitor device status, execute scheduled tasks, and maintain control across campus—anytime, anywhere.



15:00 pm All classrooms	Fire Drill Video	●
15:00-16:00 pm All classrooms	English Listening Test	...
10:00-11:00 am Grade 1 classrooms	Fire Drill Video	...
12:00-12:30 am Grade 2 classrooms	Lunch Break Music	...



Scheduled AV Broadcast Capability

The NDP600 serves as an AV endpoint capable of receiving scheduled or ad hoc multimedia broadcasts directly from the Q-NEX Console. Whether distributing training videos, announcements, or campus-wide communications, administrators can push content to selected classrooms in real time or schedule it for automatic playback—ensuring timely and uniform message delivery.

Real-Time Event Streaming

Functioning as a real-time AV decoder, the NDP600 enables classrooms to receive live streamed content directly from the Q-NEX Console. From principal addresses to ceremonial events, streamed content is displayed instantly on classroom screens, ensuring every room remains engaged and synchronized during important campus-wide moments.





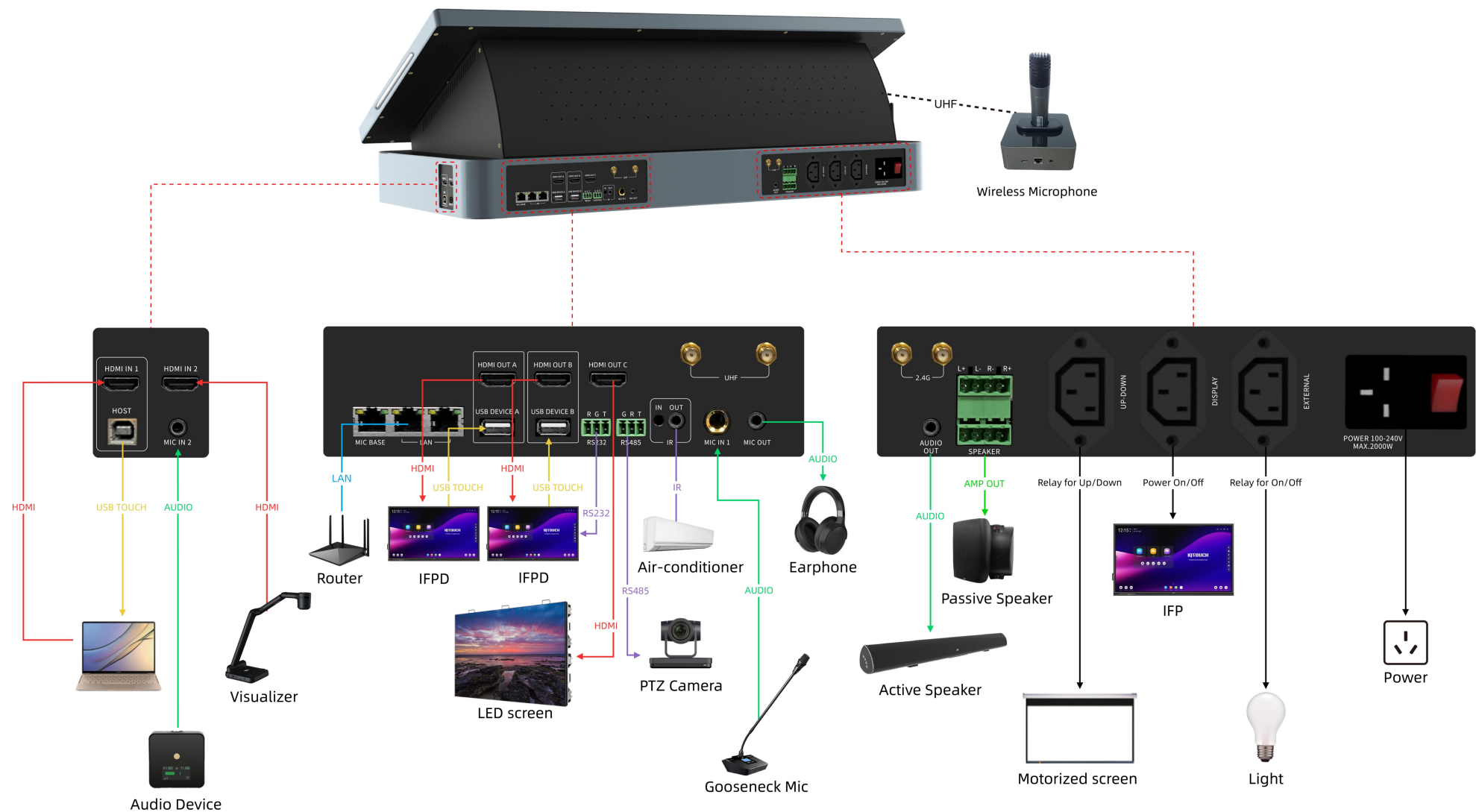
Adjustable Screen Angle for Comfort

The NDP600 can be placed on a traditional lectern and features an adjustable screen angle from 30° to 50°, allowing instructors to comfortably switch between sitting and standing positions. This thoughtful design enhances teaching posture and reduces fatigue during long sessions.

Inside NDP600



Application diagram



Soulmates of Q-NEX NDP600

Q-NEX Desktop Digital Podium NDP600 is the core component of educational digitalization. Using the following components, the classroom can be easily upgraded to an intelligent modernization classroom, greatly improving the teaching experience for teachers and students.



Interactive Flat Panel



Document Camera



Wireless Presentation System



PTZ Camera



Lecture Capture System

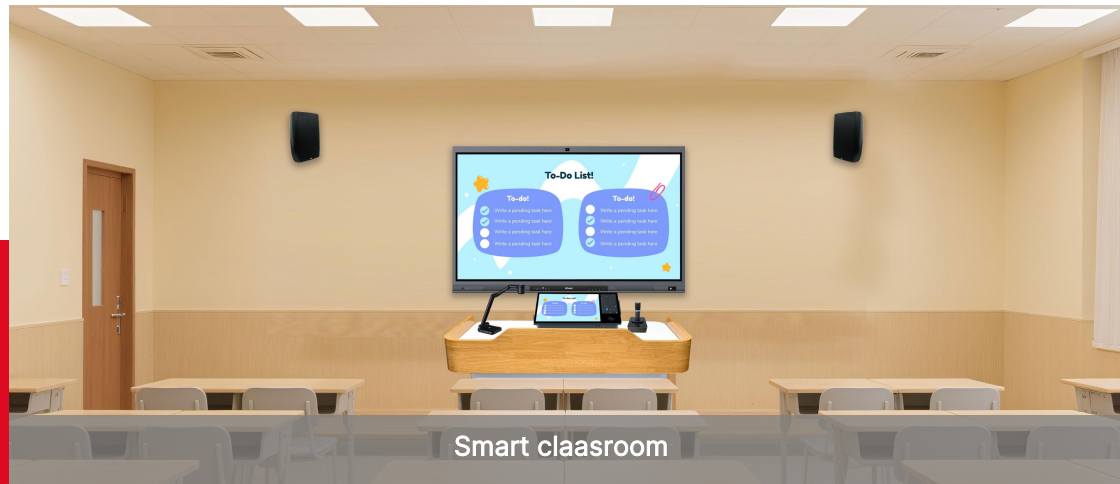


Passive Speaker

Height-adjustable Stand (Optional)



Application scenarios



Smart classroom



Lecture hall/ Auditorium



Online teaching classroom



Meeting room

Specifications Desktop Digital Podium



NDP600		
Interactive Pen Display	Panel type	IPS(TFT-LCD)
	Effective screen size	23.8 inch (16:9)
	Resolution	1920*1080
	Brightness	300cd/m2
	Contrast ratio	1000:1
	Viewing angles	178 ° (H), 178 ° (V)
	Surface	3mm Hardened Anti-Reflection Safety Glass (7H); AG+AF; Optical Bonding technology
	Touch	Active Capacitive: 10 points, 4096 levels; Operating System Support: Windows 7/8/10/11, Android, Mac;
	Pen	Capacitive MPP pen(windows INK support); Pen Pressure: 4096 levels; Reading Accuracy: ±0.25 mm; Writing Height: 0-5mm; Voltage: 5V
Control Panel	Panel type	IPS(TFT-LCD)
	Effective screen size	10.1 inch(9:16)
	Resolution	1200*1920
	Brightness	250cd/m2
	Contrast ratio	800:1
	Viewing angles	178 ° (H), 178 ° (V)
	Surface	3mm Hardened Anti-Reflection Safety Glass (7H); AG+AF; Optical Bonding technology

NDP600		
LED Screen	Panel type	OLED
	Effective screen size	1.3 inch(2:1)
	Resolution	128*64
	Display area	29.42*14.7(mm)
Built-in PC	CPU	Intel ® Core™ i5
	RAM	8GB
	Storage	512 SSD
	Graphics card	Intel® Iris® Xe Graphics eligible
	Network	10/100/1000M self adaptive Ethernet LAN port
	WIFI	802.11ac/a/b/g/n
	BT	5.0
I/O	LAN switch	10M/100M/1000M RJ45(Lan share support)*2; RJ45(MIC BASE)*1
	Audio	3.5mm audio in*1; 3.5mm audio out*1
	Mic	6.35mm wired MIC in*1; 3.5mm MIC mixed out*1
	HDMI(Input * Output)	3*3MATRIX HDMI 1.4(4K@30Hz,HDCP1.4); Input(1*Built-in PC+2*External HDMI IN); Output(1*NDP600 Display+3*External HDMI OUT); Supports near-zero latency switching, enables instantaneous or near-instantaneous switching between video sources;
	USB(KVM)	USB 2.0 (device) *2; USB 2.0 (touch) *1

NDP600		
I/O	Communication interface	RS232 *1; RS485 *1; IR-In *1; IR-Out*1
	Amplifier Power Output	2-channel, 40W+40W per channel
	Wireless microphone receiver(bulit-in)	2*UHF antenna(Exposed); Frequency bandwidth: 300KHz; Frequency range: 30Hz~16KHz; Receiving sensitivity: <=-96dBm; SNR: >= 94dB; Range: <=20m
	RF transceiver	/
	Power control	1* Power(AC IN, C14 Type) : 100~240V 50/60Hz 2000W(MAX); 1* External (Resistive Load, C13 Type): 8A 28V DC /8A 240V AC; 1* Display(AC Out, C13 Type): 100~240V 50/60Hz 1200W(MAX); 1* Screen up-down(AC Out, C13 Type): 100~240V 50/60Hz 300W(MAX); 1* Power fuse
Environmental Conditions	Temperature	During use: 0~40°C; In storage: -15~60°C
	Humidity	During use: 20~80% (no condensation); In storage: 10~90% (no condensation)
Physical Specifications	Screen stand adjustment	30~50 °
	Net weight	22 (kg)
	Product size	716*350*242 (mm)

Specifications Wireless Microphone



WX-D11	
Type	Handheld Microphone(Includes charging base)
Receiving sensitivity	>=91dBm
Receiver working current	5V/150mA
Frequency range	642MHz ~702MHz
Sensitivity	-96dbm
Frequency response	30Hz~16Khz
SNR	94dbm
Transmit power	10dbm
Distortion	<0.1%
Effective distance	<30m
Latency	<3ms
Power supply	4.2v 800mah(14500 lithium battery)
Microphone working current	120mA@3V
Battery lifetime	6 Hours
Operating temperature	-20°C~80°C

Specifications

Height-adjustable Stand



Height-adjustable Stand		
Product model	JY-D03A	
Dimensions (L x W)	1200mm x 600mm	
Material	Cold-rolled steel, panel	
Environmental grade	E0 level	
Number of motors	Dual motors	
Adjustable height range	770mm ~ 1250mm (Desktop)	
Travel range	480mm	
Lifting noise	≤49dB	
Maximum load capacity	100kg	
Power supply voltage	AC 100V~240V	
Overall dimensions (L × W × H)	1240mm (L) x 620mm (W) x 900mm (H)	
Packing dimensions (L × D × H)	1270mm (L) x 650mm (W) x1050mm (H)	
Storage temperature	-20°C~60°C	
Storage humidity	10%~90% RH	
Operating altitude	≤ 5000m	
Operating temperature	0°C~40°C	
Operating humidity	10%~90% RH	



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