Q-NEX
Digital Podium
NDP200

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RETURNSTAR TECHNOLOGY

Product Overview

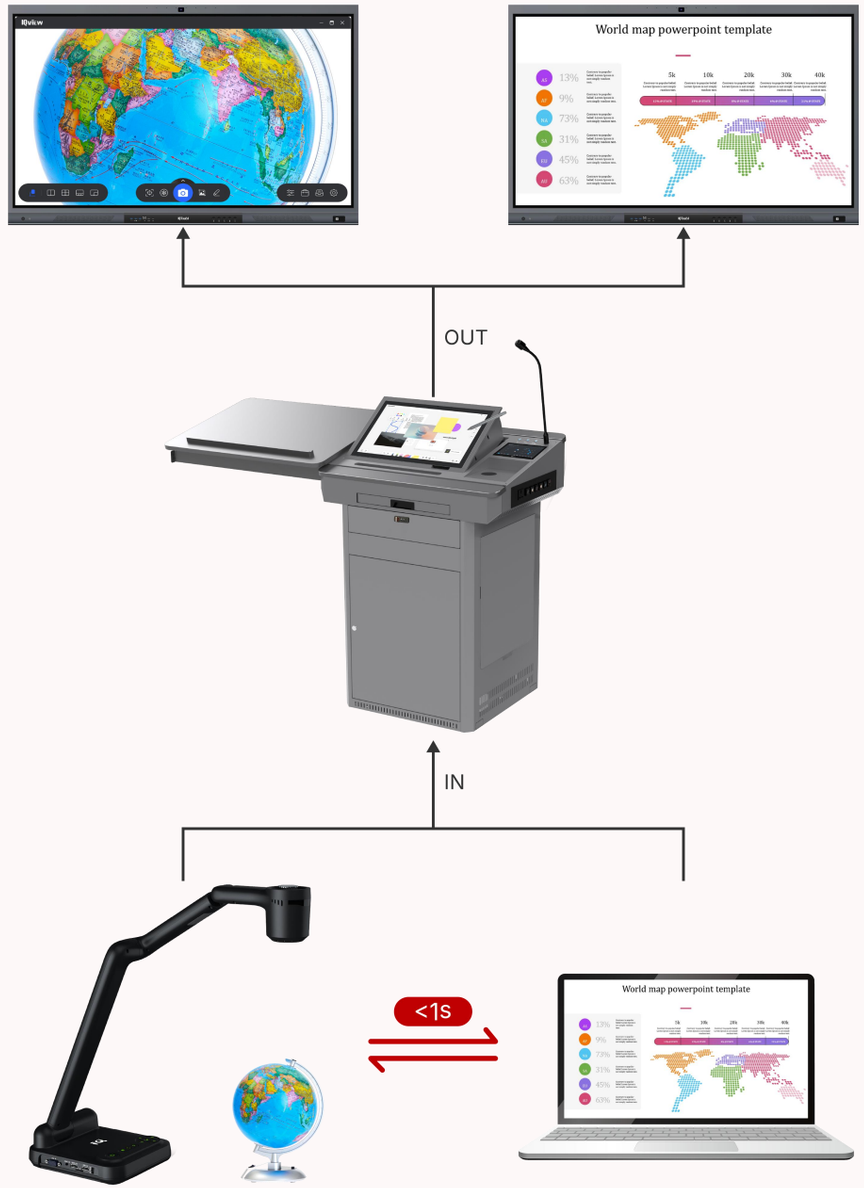
The Q-NEX Digital Podium NDP200 enhances classrooms and meeting spaces with powerful all-in-one integration and network-based control and management. Its interactive touchscreen enables centralized control and seamless operation of in-room devices; Featuring universal AV and control ports, the podium supports remote device management via network access. Functions such as AV broadcasting, live streaming and automated tasks can be easily controlled through web or mobile apps. With flexible device integration, the NDP200 delivers a truly smart, efficient and user-friendly teaching environment.

Device Control at One Stop

Bringing all classroom and presentation devices together under one unified control panel, operation becomes intuitive, efficient and effortlessly manageable - keeping essential controls always close at hand.

Seamless AV Matrix Switching

Featuring a powerful 4×4 AV matrix switch and seamless touch-following to the large screen, presenters can switch sources instantly, annotate in real time and maintain visual continuity - energizing lessons with rich, uninterrupted audiovisual experiences.



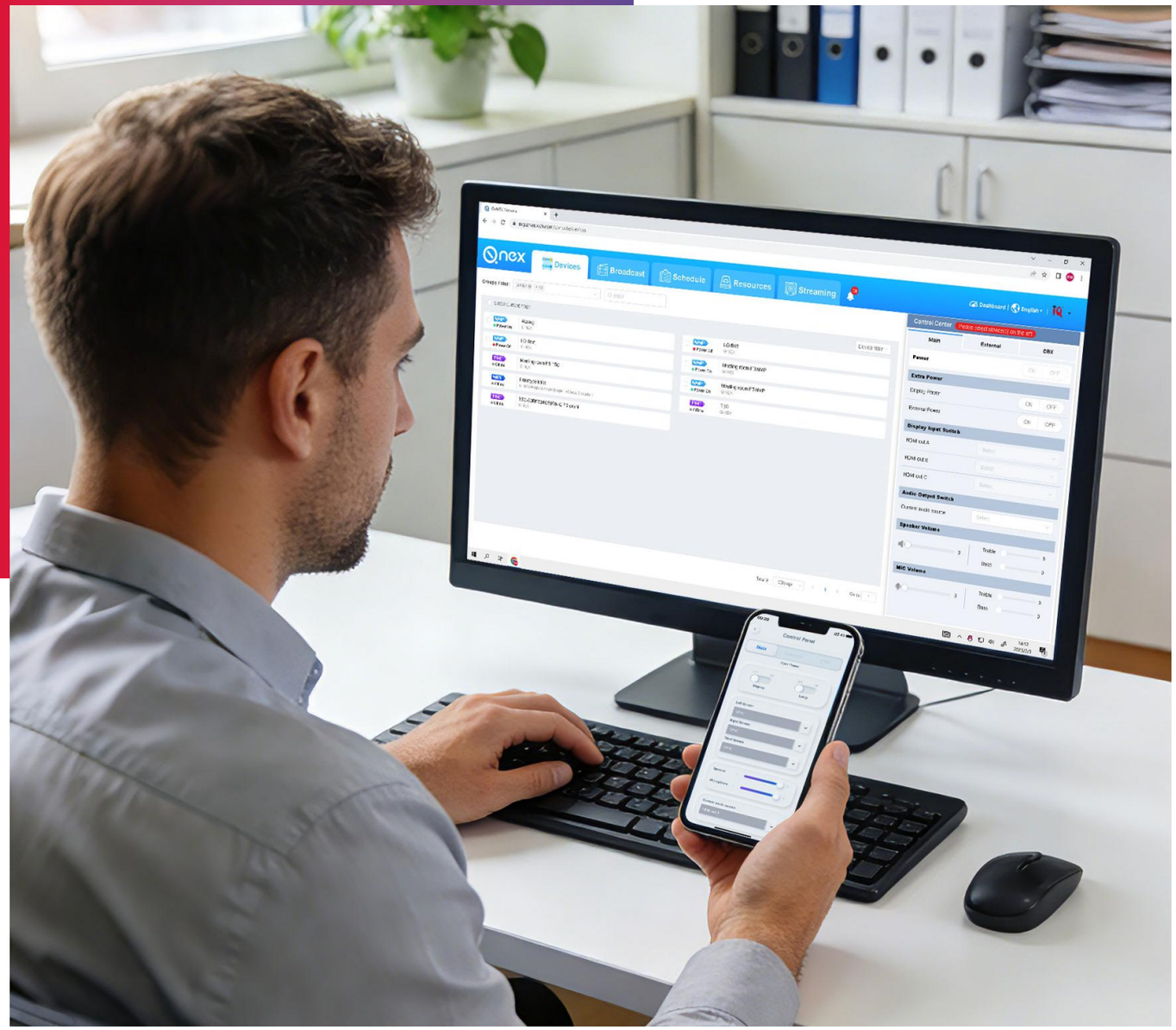
Stay Connected with Whole Campus

● Campus-Wide AV Broadcast

The NDP200 supports both real-time and scheduled AV broadcasting to meet every communication need. Instantly deliver live messages when urgency matters or automate routine broadcasts for consistent, hands-free operation. Flexible control ensures smooth, reliable content delivery without added workload.

● Live Event Streaming

Stream lectures, ceremonies and campus events in real time to multiple locations. With stable, high-quality transmission, audiences can participate beyond physical spaces - expanding reach, increasing engagement and maximizing the impact of every event.



Web & App-Based Remote Management

All control are fully synchronized with the Q-NEX Console, enabling access through both web and mobile platforms. From a centralized dashboard, IT administrators can track device status, execute scheduled tasks and maintain control across campus without location constraints.

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, electrical lock module and so on for a centralized and remote-control management.

Interactive pen Display

Touch panel

Gooseneck microphone

Wireless charging

Abundant interfaces

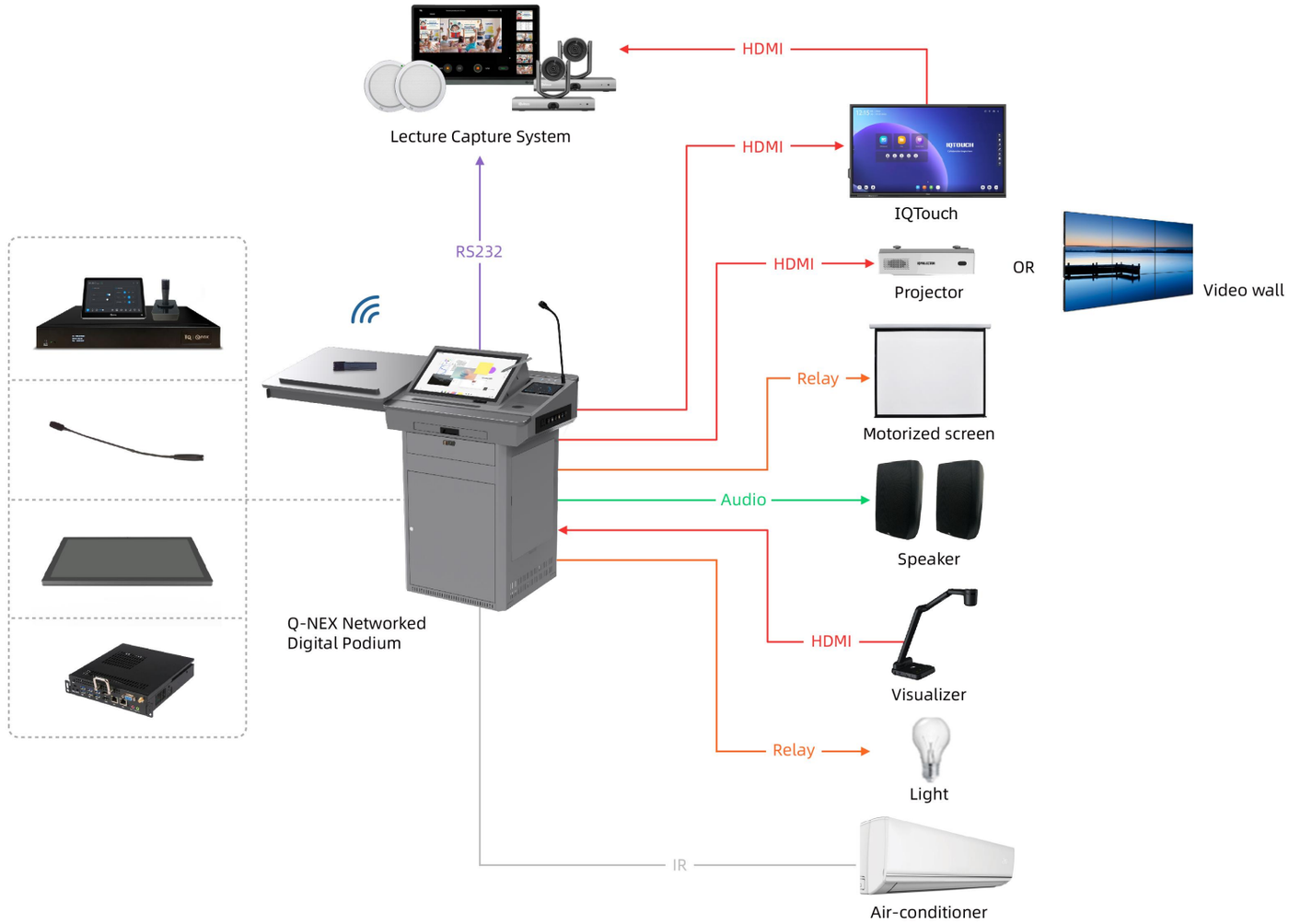
Networked Media Processor

Document camera (optional)

Built-in PC

⁎A Lite Media Server is required for pushing AV broadcast and live streaming to the Q-NEX Networked Digital Podium NDP200.

Application diagram



Application Scenarios

Auditorium

Q-NEX Networked Digital Podium NDP200 enables seamless AV content sharing and one-touch device control for effective audience engagement in auditoriums.

Seminar Halls

Q-NEX Networked Digital Podium NDP200 creates highly interactive and collaborative meeting experiences in seminar halls with integrated AV device control and content sharing from one spot.

Classroom

Q-NEX Networked Digital Podium NDP200 maximizes engagment and interaction with students through seamless display of AV contents and device control while enabling a hybrid classroom through its connection with lecture capture system.

Specifications Digital Podium

NDP200		
Interactive Pen Display	**Screen**	21.5 inch(16:9); IPS
	Resolution	1920*1080
	Brightness	250 cd/m²
	Contrast Ratio	4000:1
	Viewing Angle	178°（H), 178°（V)
	Surface	Tempered Glass(3mm); 7H
	Touch	Active Capacitive: 10 points, 4096 levels; Operating System Support: Windows 7/8/10/11, Android, Mac;
	Pen	Capacitive MPP pen; Pen Pressure: 4096 levels; Reading Accuracy: ±0.25 mm; Writing Height: 0-5mm; Voltage: 5V
Control Panel	**Screen**	10 inch(16:9); IPS;
	Resolution	1280*800
	Brightness	250 cd/m²
	Contrast Ratio	800:1
	Viewing Angle	85°（H), 85°（V)
	Surface	Tempered Glass(1mm); AG+AF; 7H; Optical Bonding
	Touch	Capacitive: 10 points
	NFC	for screen unlock
	OS(AOSP)	Q-NEX Console OS

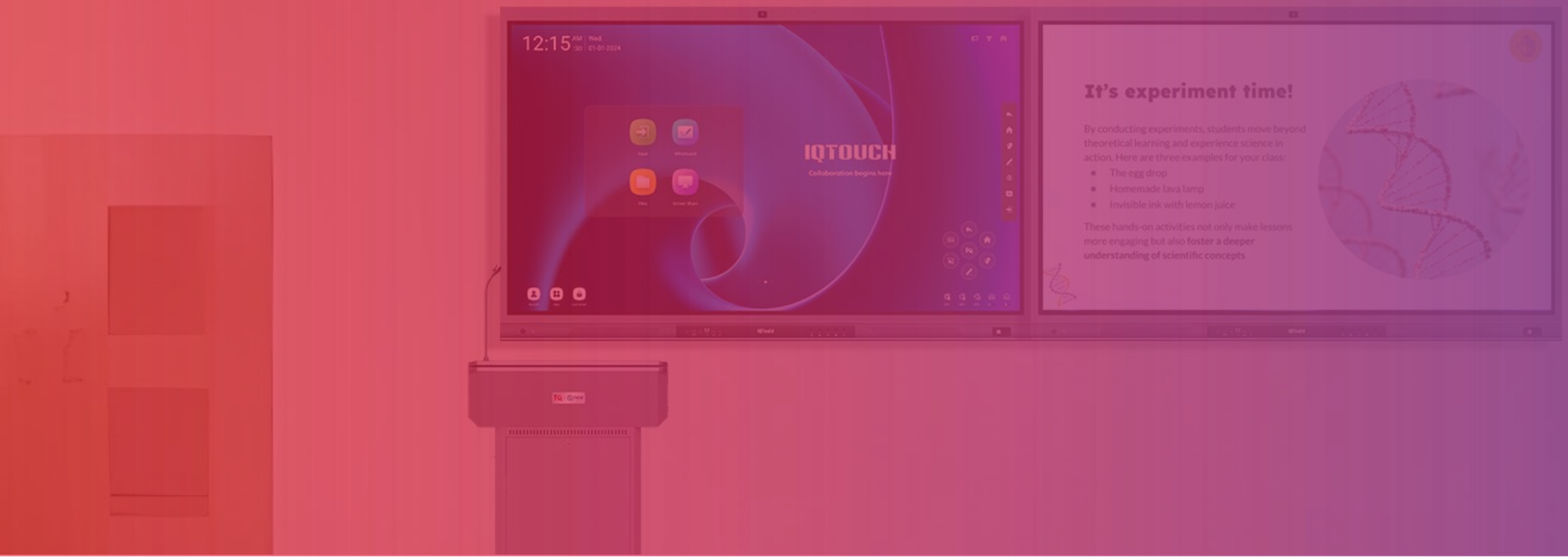
NDP200		
Terminal Unit (Networked Media Processor)	**LAN switch**	2*10M/100M/1000M RJ45; 2*10M/100M/1000M RJ45(POE support; POE<=30W);
	Audio	1*3.5mm line in; 1*3.5mm line out(mixed)
	Microphone	1*6.35mm wired MIC in; 1*3.5mm MIC out
	Mic volume control	For wireless microphone*1; For gooseneck microphone*1
	LED Screen	Panel Type: OLED; Effective screen size: 1.3 inch(2:1); Resolution: 128*64; Display area: 29.42*14.7(mm)
	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(optional)	2*2.4G antenna(Exposed); “Wi-Fi friendly”2.4 GHz spread spectrum 2-way RF(2400 to 2483MHz); Range: <=25m(connect up to 4 units of control box)
	HDMI matrix(Input * Output)	3*2MATRIX HDMI 1.4(4K@30Hz, HDCP1.4); Supports near-zero latency switching, enables instantaneous or near-instantaneous switching between video sources;
	Communication interface	2*RS232; 2*RS485; 3*USB-A 2.0(KVM); 1*USB-A 2.0(For card reader); 1*Phoenix 4-Pin(for Physical Control Panel or Control Box pairing); 1*IR-IN(for learning IR remote control code); 1*IR-OUT(for IR control)
	Amplifier Power Output	2-channel, 40W+40W per channel
	Lock control	[+]: Power output, Voltage: 12V, Current: 800mA; [-]: Power ground(negative level); [I]: Door switch interface; [D]: Door lock status interface; [C]: Relay common end, Load capacity: DC 3A at 30V; [O]: Relay normally open, Load F26capacity: DC 3A at 30V
	Power control	1*Power(AC IN, Wago Type): 100-240V~50/60Hz 2000W(MAX); 1*External(Resistive Load, Wago Type): 8A 28V DC/8A 240V AC; 1*Display(AC Out, Wago Type): 100-240V~50/60Hz 1200W(MAX); 1*Screen up-down(AC Out, Wago Type): 100-240V~50/60Hz 300W(MAX); 1*Power fuse; 1*Rocker switch
	Size(L*W*H)	440*292*50mm
	Weight	3.9kg

NDP200		
Build-in PC	CPU	Intel ® Core™ i5
	RAM	8GB
	Storage	512 SSD
	Network	10/100/1000M self adaptive Ethernet LAN port
	WIFI	802.11 ac/a/b/g/n
	System	Windows 11 Pro
Ethernet Switch	RJ45	8*10/100/1000M self adaptive Ethernet ports
	Standards	IEEE802.3, IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3x
	Protocol	CSMA/CD
	Data Transfer Rate	2000Mbps(Full Duplex)
	Power Input	External Power Adapter (Input: 100~240V AC, 50/60Hz; Output: 9V DC, 0.6A)
Podium Body	Overall Dimenions (mm)	870(L) x 609(W) x 1212(H)(closed); 2162(L) x 609(W) x 1212(H)(extended); Materials: Reinforced steel plate structure with powder-coated anti-rust paint on the metal surface
	Weight (kg)	Net Weight: 90 kg Gross Weight: 131 kg
	Tabletop Dimenions (mm)	870(L) x 273(W) x 611(H)(closed); 2161(L) x 273(W) x 611(H)(fully extended)
	Sliding Cover Panel	Dimensions(mm): 870(L) x 600(W) x 18(H); Material: Eco-friendly medium density board; Weight Capacity: 30kg
	Grooves	1*Stylus pen holder

NDP200		
Podium Body	Up/Down Buttons	Adjust the front and rear angles of the interactive display; Adjust Angle: 12° - 35°; Limit switch support
	Power Button(control panel)	Click for the panel's sleep and wake-up; Long-press for the panel's power on and off
	Gooseneck Microphone	Length: 59 cm; Conversion method: Capacitive; Cartridge: 15mm capacitor Directional characteristic: Hyper-directional type; Frequency response: 70 - 20 kHz; Sensitivity: -45 dB(±2 dB); Output impedance: 200Ω; Power supply: DC 3V/AC 220V
	Exposed interface	1*Power(110-240V AC OUT, 3-prong); 2*Touch USB type B(2.0); 2*HDMI IN(4K@30Hz); 2*USB type A(3.0); 1*LAN(10M/100M/1000M Self-adaptive RJ45); 1*Goose-neck microphone jack
	Wireless Charging	1*Wireless charging(15W)
	Antenna	2*2.4 GHz and 5 GHz dual-band Wi-Fi for the built-in PC; 2*2.4GHz Wi-Fi for NMP to connect external CBXs; 2*UHF antenna for wireless mic receiver built-in NMP
	Keyboard Tray Dimensions (mm)	507(L) x 180(W)
	Front Drawer Dimensions(mm)	Dimensions(mm): 480(L) x 220(W) x 100(H)
	Foldable Stand	Dimensions(mm): 577(L) x 545(W); Material: Eco-friendly medium density board; Weight Capacity: 15kg
	Rack/Shelf Dimenions(mm)	500(L) x 490(W) x 590(H)

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



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