IQSchool Solution Products List

IQ Product Names	IQ Models	Details
IQSchool Converged Server	BS-100	Professional Server (1U), CPU; Xeon E3-1220 ; RAM; 4G DDR3; Hard Disk: SATA 1T;
IQSchool Manager Software	MV	Integrated Platform Software.
IQSchool Converged Station	V210	Network Central Control+Digital Amplifier (2x40W) + Wireless IoT Module.
	V220 (Unavailable)	Network Central Control+Digital Amplifier (2x40W) + Network Audio Broadcast + Wireless IoT Module.
	V230 (Unavailable)	Network Central Control+Digital Amplifier (2x40W) + Wireless IoT Module + HD Audio & Video Broadcast.
	V330	Network Central Control + Digital Amplifier(2*100W) + Wireless IoT Module + HD Audio & Video Broadcast.
	V430	Industrial x86 Mainboard + Network Central Control + Digital Amplifier(2*100W) + Wireless IoT Module + HD Audio & Video Broadcast.
IQOne+	P730	Capacitive touch screen with 10-point touch + Network Central Control + Digital Amplifier(2*60W) + Industrial Computer + Wireless IoT Module + Visualizer + Digital Audio Broadcast.
IQ Live Broadcast Station	VL-100	Android system,10.7" Capacitive touch screen , Audio Video mix function
IQ Media Box	BC-03	Network Central Control+Digital Amplifier+HD Audio & Video Broadcast.
IQSchool Power & A/C Control Terminal	KC-601	Network Remote Wireless Control.
IQ 2.4G Wireless Mic	R20	Hi-fi Wireless Microphone.
IQSchool Desktop Control Panel	CP-02	220V, USB cable, Network cable, VGA, Audio cable, Capacitive touch screen.
	KC-608	220V, USB cable, Network cable, VGA, Audio cable.
IQSound+	MC06A	(50-100)W, Mounting Bracket.
IQ Wireless Digital Amplifier	KC-611	Wireless MIC Amplifier, Digital Amplifier (2X40W).

Solutions For Classroom

Names	IQ Product Names	IQ Models
IQOne+	IQOne+	P730
	IQManager Software	MV
	IQSchool Converged Server	BS-100
	IQ 2.4G Wireless Mic	R20
	IQSound+	MC06A
	IQSchool Power & A/C Control Terminal	KC-601
Intelligent Converged Station	IQSchool Converged Station	V210
	IQSchool Converged Station	V220 (Unavailable)
	IQSchool Converged Station	V230(Unavailable)
	IQSchool Converged Station	V330
	IQSchool Converged Station	V430
	IQManager Software	MV
	IQSchool Converged Server	BS-100
	IQ 2.4G Wireless Mic	R20
	IQSchool Desktop Control Panel	CP-02
	IQSchool Desktop Control Panel	KC-608
	IQSound+	MC06A
	IQSchool Power & A/C Control Terminal	KC-601

IQSchool Converged Server

Saft application and data storage, with its self-developed and customized database systems ,audio coding technology and cross network technology, IQSchool Converged Server makes operation more efficient and stable.

Product Highlights

1. Self-developed linux kernel, 1U rackmount design.

2. Industrial motherboards and hard drives for applications and data.

3. High-quality and low-latency audio coding technology, CD-quality sound, real-time audio delay <30ms.

4. Patented cross network technology, saving the settings for interchanger.

5. Self-developed and customized database systems to ensure efficient and stable operation, and free from intellectual property rights restrictions.

IQSchool Converged Server

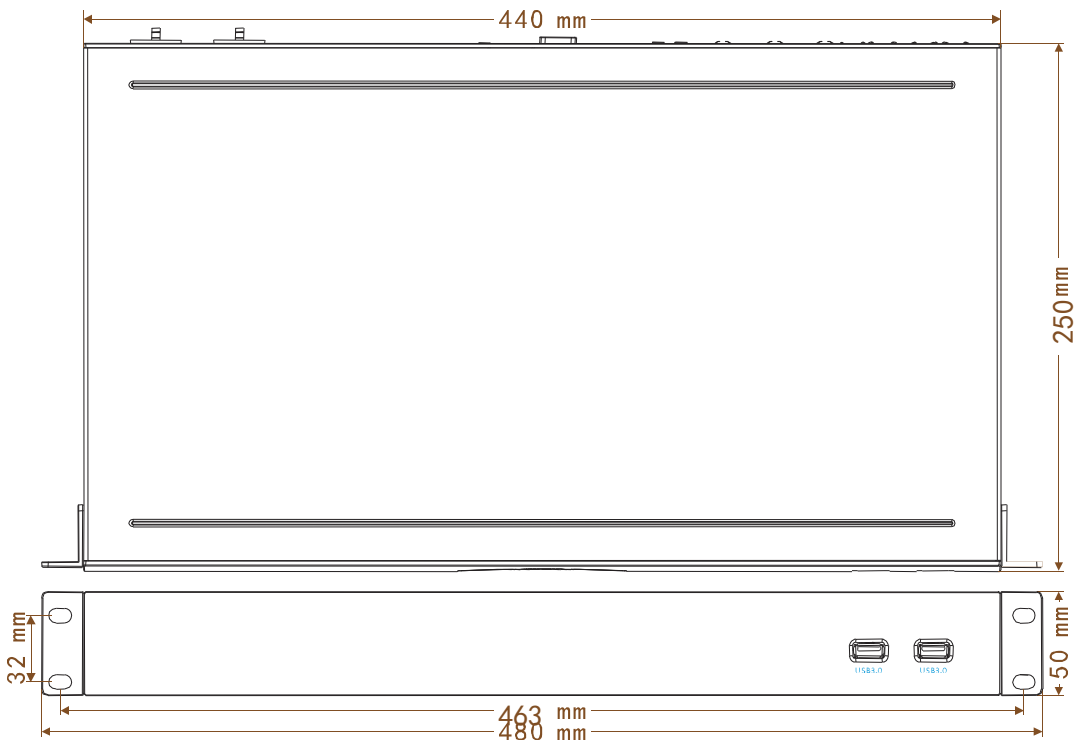| Parameters	Descriptions
Processor	Dual-core 2.0G and above, industrial motherboard
Memory	4G DDR3
Hard Disk	1000G enterprise drives
Network Card	100M / 1000M network port(*2)
Chassis	1U rack chassis design
Power	250W industrial power supply

IQSchool Converged Station

IQSchool Converged Station, a high-end fusion control information terminal, integrates Center Control, Network Switch, Digital Amplifier, Electronic Magnetic Controller, Digital Broadcasting and Wirless control module . Working with IQ Manager Software, this system achieves remote device control and device management, A/V over IP function and information diffusion.

Product Highlights

1. Built-in 100w*2 Digital Amplifier.
2. 6 built-in 10/100/1000M RJ45 ports.
3. Remote control and management on devices.
4. A/V over IP broadcast system.
5. Industrial motherboard and solid state drive of 120G MSATA SSD (for V430).
6. High quality ATX high-frequency power supply to work 7/24.
7. Rich ports, including 3*3 HDMI Matrixes.
8. Equipped with IQSchool Desktop Control Panel for quick operation.
9. Easy to install and use without training.

Product Size

440 mm

250 mm

32 mm

50 mm

463 mm
480 mm

4

IQSchool Converged Station V330/V430(Available)

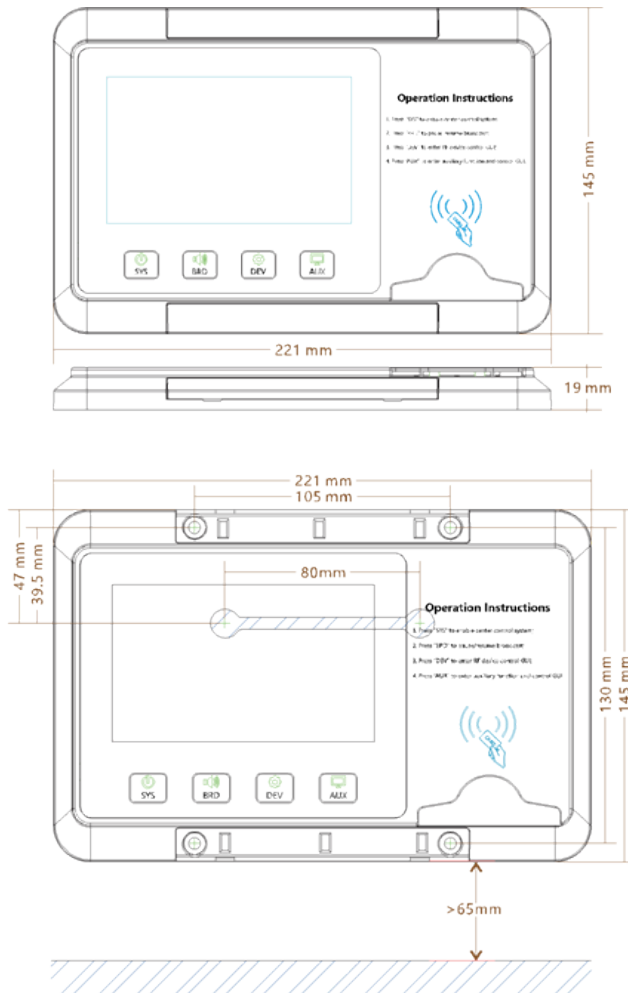| Parameters	Descriptions	V330	V430
Standard 1U rack design	Suitable for all types of rack.	√	√
Integrated industry computer	cpu： i5 Series；128G SSD；4G DDR3	x	√
Industrial embedded mainboard	Highspeed 32-bit embedded CPU; Built-in 128MB RAM; Embedded LINUX operating system.	√	√
Integrated 10/100/1000M RJ-45 port switch	6*ports 10/100/1000 RJ-45 switch	√	√
Integrated HDMI A/V Matrix	2*HDMI and one VGA Input ， 2*HDMI output and one force broadcast signal output	√	√
Wired MIC input	One 6.5mm Wired MIC ports.	√	√
Communication interface	One programmable RS232 control communication interfaces for projector and other external device; Two USB communication interface (available for IC card reader and other external device), communicating with central controller, cannot be used as a USB switch.	√	√
Audio Amplifier	100W+100W external speaker output port.	√	√
Electric lock control	One electric lock control drive port.	√	√
Power in/out	One main power input port. One projector power out; One external device power out; One projector screen lift/lower power output port;	√	√
Remote control and integrated management	Integrate control and management of computer/projector/visual presenter/external device power at the same or cross-segment network; Automatically statistics of conditions of multi-media in the classroom remotely, including working time/journal/power consumption and etc, remotely install all the controlling codes of the projector.	√	√
Digital audio broadcast	Equipped with effective broadcast audio decoding function, together with broadcast server software it will output the decode of IP digital audio in the classroom, realizing the regular class bells and far call.	√	√
Streaming media	Support HTTP, RTSP, UDP, RTP and other streaming media protocols. Support pre-establish task model to receive HD content and program at regular times.	√	√

IQSchool Converged Station V210/V220/230(Unavailable)

Parameters	Descriptions	V210	V220	V230
Standard 1U rack design	Suitable for all types of rack.	√	√	√
Industrial embedded mainboard	Highspeed 32-bit embedded CPU; Built-in 128MB RAM; Embedded LINUX operating system.	√	√	√
Integrated 10M/100M RJ45 4 ports internet switch	One front RJ45 port; Two rear network RJ45 ports in/out.	√	√	√
VGA/Audio synchronous/asynchronous switch	One front panel VGA In; One rear panel presenter VGA/3.5mm Audio In; One rear panel computer VGA/3.5MM Audio In; One rear panel projector VGA Out; One rear panel touchscreen VGA In; One 3.5mm analog broadcasting In; One 3.5 mm Audio Out.	√	√	√
HDMI HD output port	One HDMI Out; available for LCD television and multiple LCD device.	×	×	√
Audio format	MP3 and other mainstream Audio formats.	×	√	√
Video format	MP4, MOV, AVI, TS Stream and other mainstream formats.	×	×	√
Wired MIC input	Two front panel 6.5mm Wired MIC ports.	√	√	√
AV signal in	One AV external video signal in; L/R external audio signal in.	√	√	√
Communication interface	One programmable RS232 control communication interfaces for projector and other external device; Two USB communication interface (available for IC card reader and other external device), communicating with central controller, cannot be used as a USB switch.	√	√	√
Audio Amplifier	40W+40W external speaker output port.	√	√	√
Electric lock control	One electric lock control drive port.	√	√	√
Power in/out	One main power input port. One projector power int; One external device power in; One projector screen lift/lower power output port;	√	√	√
2.4G wireless MIC	Support 2.4 G frequency and reception.	√	√	√
Remote control and integrated management	Integrate control and management of computer/projector/visual presenter/external device power at the same or cross-segment network; Automatically statistics of conditions of multi-media in the classroom remotely, including working time/journal/power consumption and etc, remotely install all the controlling codes of the projector.	√	√	√
Digital audio broadcast	Equipped with effective broadcast audio decoding function, together with broadcast server software it will output the decode of IP digital audio in the classroom, realizing the regular class bells and far call.	×	√	√
Streaming media	Support HTTP, RTSP, UDP, RTP and other streaming media protocols. Support pre-establish task model to receive HD content and program at regular times.	×	×	√

IQSchool Desktop Control Panel

IQSchool Desktop Control Panel has capacitive touch screen for touch and operation only by fingers. The device makes it available for central control on multi-media devices, including computer, projector, document camera, external device, screen and audio broadcast. It's easily installed and handy to operate without training,

Installation of Control Panel

1. Drill four 3.5mm screw holes and one 20mm hole for putting thread through ,make sure the distance between screw holes is 115*107mm and the distance between thread hole and top is 28.6mm.

2. Put control wire through hole and fasten screw in four holes of two sides of control panel.

IQSchool Desktop Control Panel CP-02(Available)

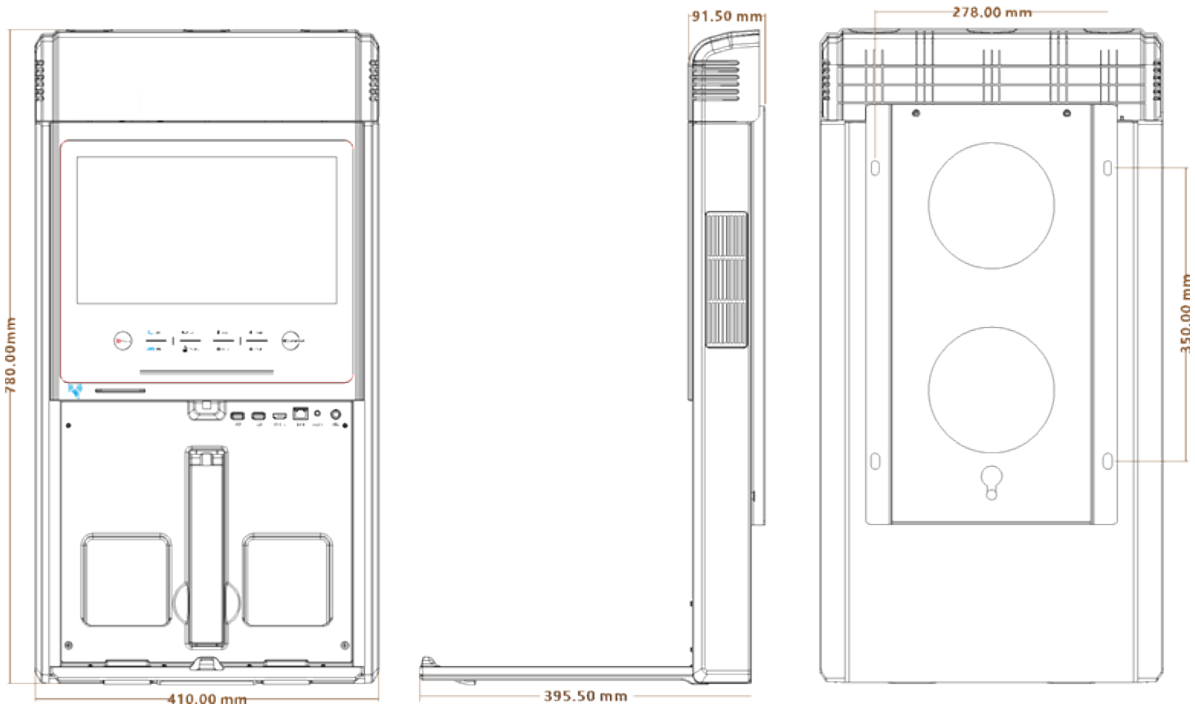| Parameters	CP-02	KC606
Tapered & Water-proof design Integrated Moduled Button (Ultrathin)	√	√
Control Panel hole size 8mm×8mm for installing on desktop.	√	√
Control Panel integration with wireless IoT control module, easy to connect with IQ Wireless MIC, A/C controller module,power control module and etc.	√	√
Rear RJ11 port connect with intelligent converged control	√	√
Power: turn on/off the system	√	√
Projector: turn on/off the projector	√	√
Audio & Video source switch Preview: rear panel visualizer VGA & computer VGA display switch to monitor display. Presenter: rear panel visualizer VGA port image display on projector External: front panel external device VGA to display on projector	√	√
Voice control MIC: front panel MIC in port switch control Volume+/Volume-/: Control MIC volume Mute: Mute music volume, not MIC volume	√	√
Broadcast: Listen/Pause broadcast	√	√
Video: AV port pre-monitor video output to screen	√	√
Screen control: Lift/Lower the screen	√	√
Capacitive touch screen	√	x
IC card to boot and shutdown the device	√	x

IQOne+

IQOne+ Interactive Education System, with its brand-new design and full integration with built–in PC, capacitive touch screen, wireless MIC receiver, document camera, loudspeaker, key board and touchboard, solves complex connection for the disperse devices in multi-media classroom. IQOne+ Interactive Education System makes teaching easier, more flexible and effective in modern classroom.
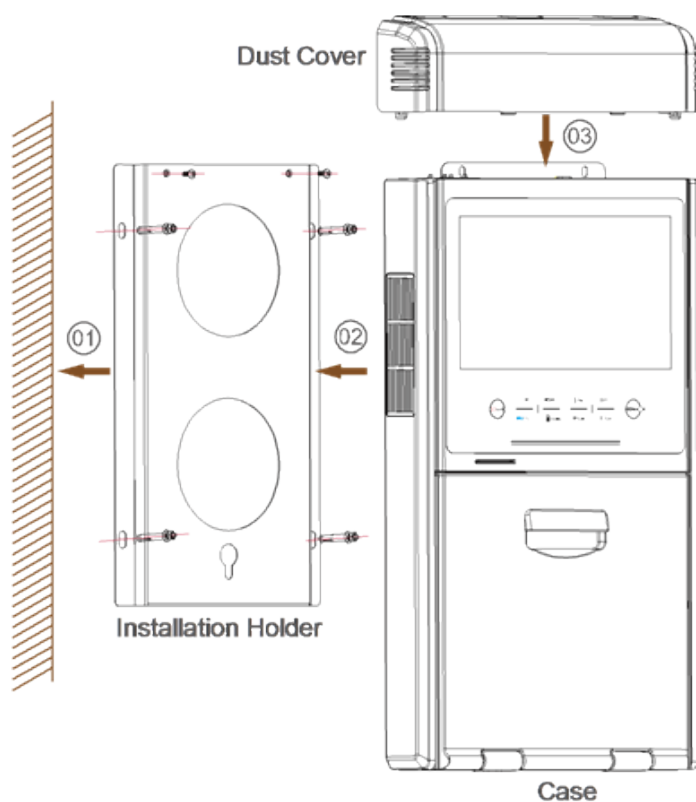

Product Highlights

1. IoT Control: Easy to connect with wireless MIC, remote air condition control and remote power module control.
2. Converged Application Terminal: Combine multi-media devices in one Machine, easier operation and more effective.
3. High Fidelity Loudspeaker System: High quality and clear human voice output.
4. Industrial Motherboard: Stable operation and better performance.
5. High Quality Mic: 2.4G Wireless technology, easy connection with IoT control protocol.
6. HD Document Camera: 5 mega pixels, crystal-clear image display.
7. Capacitive Touch Screen with 10 points: Better user experience and handy operation.
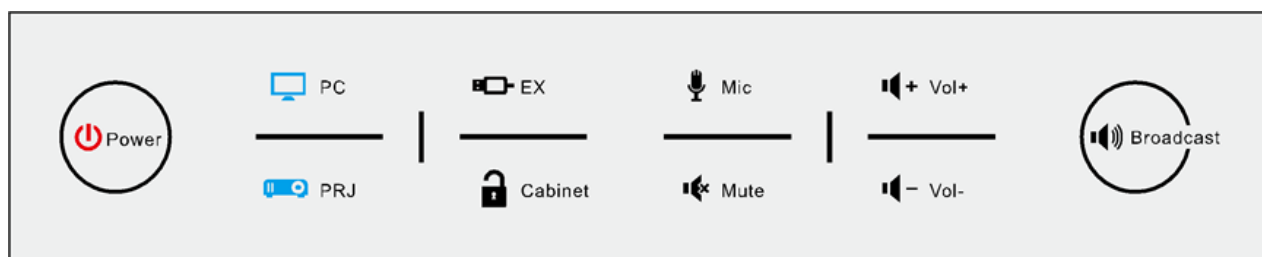

Size

Case Mounting

Attention:
1.Distance between wall holes is 278*350 mm.
2.Make fixed brackets horizontal.
3.Make all kinds of lines straight and put them
  through the line-protecting box.

Installation Steps:
1.Drill holes on the installation place: 350x278mm.
  If there is thread slot on the wall, keep the Dust Cover hole consistent with the thread slot.
2.Level gauge can be used to adjust the orientation.
3.After drilling hole, use the spring screw to fix case holder. The spring screw head should not be higher than the holder.
4.Put the pegs under the Case onto the hanging hole of Installation Holder, and then tighten the screw.
5.Insert the wires through the case and then settle the wires.
6.Remove the thread-hole cover and buckle the Dust Cover into the case.

Front key panel and ports

IQOne+ P730

Parameters	Descriptions	P730
X86 IPC	8G DDR3 120G MSATA SSD CPU: i5, 1.8GHz CPU	√
Display(LED Backlight)	Size: 14 inches Resolution:1336&768 Touch: 10-point touch PCT	√
IQView Document Camera	5 MP	√
Power Port	Input *1 Output *3	√
Video Input/Output	4*2 HDMI Matrix	√
Audio Input/Output	Audio Output Stereo *1 Audio Output AUX *1	√
Communication port	RS232 *1 USB Port *2 Magnetic Lock Output *1	√
Ethernet Port	10/100/1000M RJ45 *5 Integrated Wireless Network Card	√
USB Port	PC USB Port *4 3.0 USB Port *2	√
Audio Amplifier	60W*2	√
Built-in Keyboard and Touch Panel	Touch and Control	√
Wireless IOT Module	2.4G Mic and A/C terminal	√

IQ 2.4G Wireless Mic

IQ Wireless Mic, uses 2.4G wireless technology and works with IQOne or IQSchool Converged System to achieve stable audio and signal transmission.

Product Highlights

1. One teacher one Mic.

3. Excellent Mic head selection to achieve perfect sound reduction.

2. Compatible with android power charging way, 16H continuous usage.

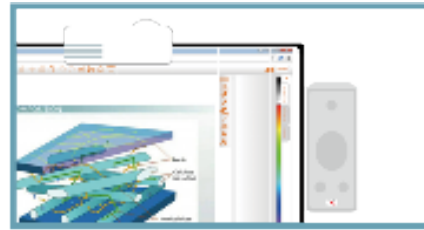4. Low radiation and real-time frequency hopping agreement.
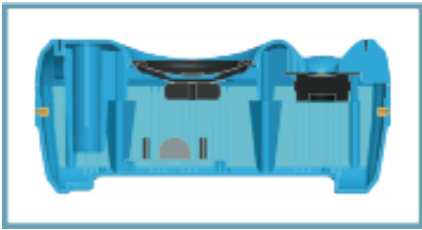
IQ 2.4G Wireless Mic

Parameters	Descriptions	R20
Match model	IQOne+ P730 IQSchool Converged System V210/V220/V230/330/430	√
Sample rate	48K audio sampling	√
Power consumption	Transmitted power<=5db，electromagnetic radiation density<30uw/cm^2	√
Frequency response	20Hz-20KHz	√
Frequency rate	2.4GHz ISM，2400-2483.5MHz	√
Channel	Random frequency hopping	√
Sensitivity	-85 dbm	√
Receiving distance	>50M	√
Delay time	<0.5ms	√
Working temperature	-25 ~ 85℃	√
Working voltage	DC 3.6V-6V	√
Dimensions (mm)	72*43*17	√
USB charge time	2H	√

IQSound+

IQSound+, high-strength environment-friendly plastic design, works with IQOne or IQSchool Converged System and creates smooth frequency response and high quality to human voice and music.
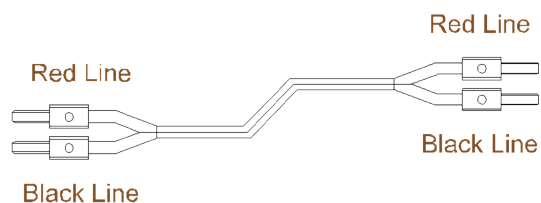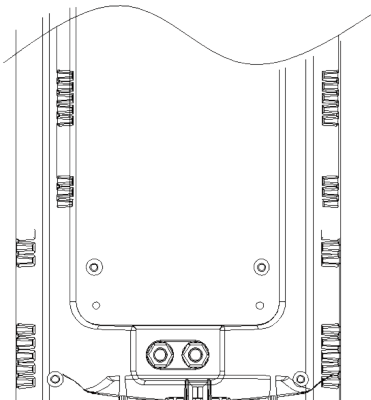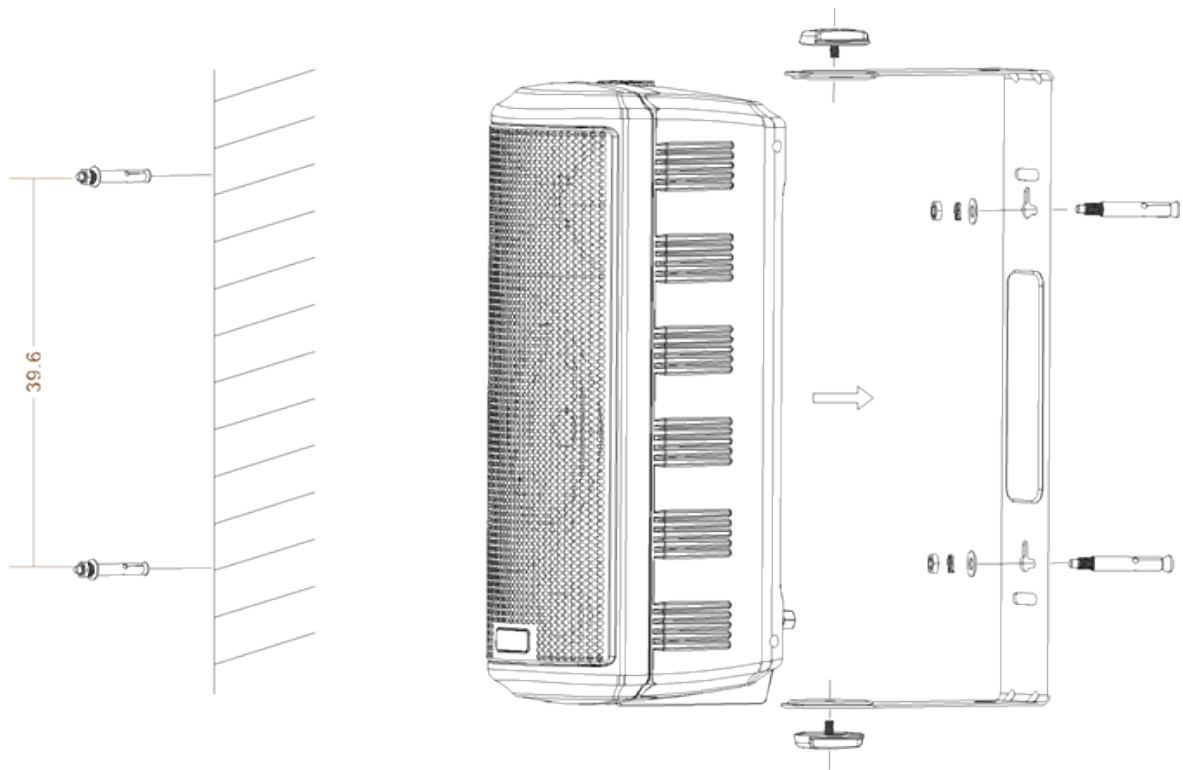

Product Highlights

1. Excellent structure design, perfect sound performance.

2. Stylish cosmetic, clear installation, study and durable.

3. Speaker and cross-over board design to the actual teaching environment.
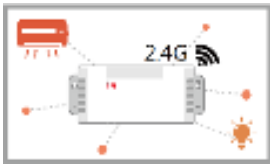   Focus not only the bass, but more on treble.

Installation Guide

Red Line

Black Line

Red Line

Black Line

IQSound+

Parameters	Descriptions	MC06A
Match model	IQOne+ P610/P620/P630 IQSchool Converged system V210/V220/V230	√
Easy installation	Indoor wall mounting design, easy installation	√
Hi-Fi	High-strength environment-friendly plastic. Smooth frequency response and high quality to human voice and music	√
Horn	Bulit-in 4×6 inch professionally customized woofer, 94mm tweeter	√
Power	50-100W	√
Impedance	8Ω	√
Total harmonic distortion	woofer < 5% , tweeter < 3%	√
Sensitivity	90±3dB	√
Dimension	440*175*216mm	√

IQSchool Power & A/C Control Terminal

IQ School Power &A/C Control Terminal, with 2.4G wireless data transmission, connects all the intelligent devices in one classroom and works with IQ Manage Software to achieve remote air-condition control and energy –saving.

Product Highlights

1. All intelligent devices can be connected through the control terminal, saving wiring trouble.
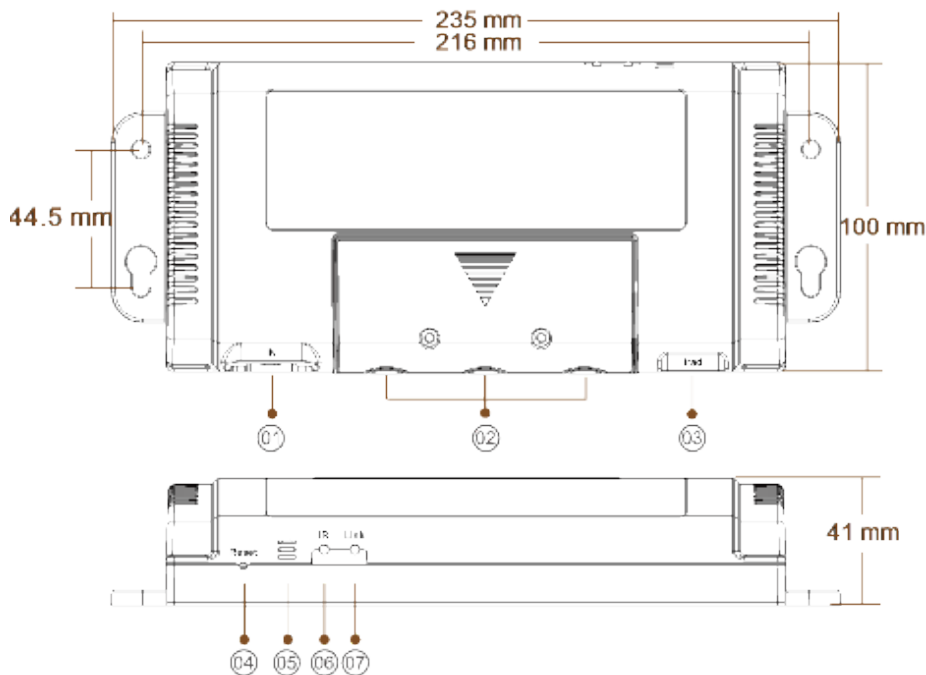
3. Multi-models selection, user-friendly design.

2. Easy arrangement, no need to change the wire layout.

4. High accuracy power measurement chip, real time power control and air condition management with the software.

Size & Functions

IQSchool Power & A/C Control Terminal

Parameters	Descriptions	KC-601
Match model	IQOne+ P730 IQSchool Converged System V210/V220/V230/330/430	√
Power port	1 power input port, 1 power output port	√
Infrared emitter port	Connect to infrared emitter head and send control commands	√
Infrared receiver port	Receive remote control and send infrared code	√
Reset port	To reset and match with IQOne and IQSchool Converged System	√
Remote control of air condition	Remote control and power on/off to set air-conditioner in each classroom through TCP/IP network	√
2.4G wireless control	Air-condition control terminal features convenient installation of wall mounting and stable performance and is connected to seamlessly classroom built-in IQ School Converged System. Air condition controller is equipped with wireless data transmission technology without any communication cable. Built-in power detection circuit can check working status of compressor. Industrial Electrical safety is assured by using industrial locking plug	√
Energy-conserving control	Remote air condition module works automatically according to preset five control models of server. Locally control air condition by using model mandate and operation keyboard of IQ School Converged System. Air condition controller will show and upload real-time data indicating used electricity quantity through industrial ammeter calculating chip to guarantee calculating correctness.	√

IQSchool Media Box

IQSchool Media Box can easy install at any place of the school, with the same function of IQ converged station, it make possible to broad cast Audio and Video to every corner of the school.

Product Highlights

1. By digital audio and HD video decoding, the device could make real-time content transmission and broadcast on the designated screen.

2. With 1080P HD video output and Hi-Fi Sound quality, the campus is surrounded by real live audio&visual broadcast everywhere.

3. It's time and energy-saving to control large monitors or displays as intelligent power management module could help you power on/off them easily by schedule. The module features wall-mounted design, compact size and handy installation.

IQSchool Media Box

Items		Notes
System Parameter	CPU	Embedded System, ARM 700MHz
	RAM	DDR2 512M
	Flash	256M SLC NAND FLASH
Interface	USB	USB*2
	LAN	RJ45*1
	HDMI	HDMI out*1
	Audio in	
	Audio out	Earphone jack*1 Amplifier connector*1
Power	Power control	220V input*1, 220V output*1
Others	Amplifier output	20W*2
	Resolution	1920*1080
	Video format	MP3、MP4、MOV、AVI、TS……
	Streaming format	HTTP、RTSP、UDP、RTP……

IQSchool Live Broadacat Station

IQSchool Live Broadcast Station can converge video or audio signal from camera, computer, microphone etc. into IP digital signal and send to deployed IQSchool Converged Station, IQOne+ and BC03 through network to realized live broadcast.

Product Highlights

Broadcast station based on Android system, with audio and video input ports, embedded Digital audio processer, it can mix audio and video signal. Its 10.1" capacitance touch screen can pre-view input contents after connected to IQSchool server, it can obtain devices list from the server, then choose corresponding device to broadcast audio/video.

IQSchool Live Broadcast Station

Name	IQSchool multi-media broadcast terminal
Size	233.93*274.47*85.00
Display Size	10.1" TFT
Resolution	1980*1080
System Version	Android 5.1.1
Interfaces	Network port *1
	Reserved SDI Port *1
	HDMI Input*1
	HDMI Output*1
	Reserved USB Port *1
	Mic Input *1
	Audio Line in *2
	Audio Line Out *1
	Power Input（DC 5V 4A）