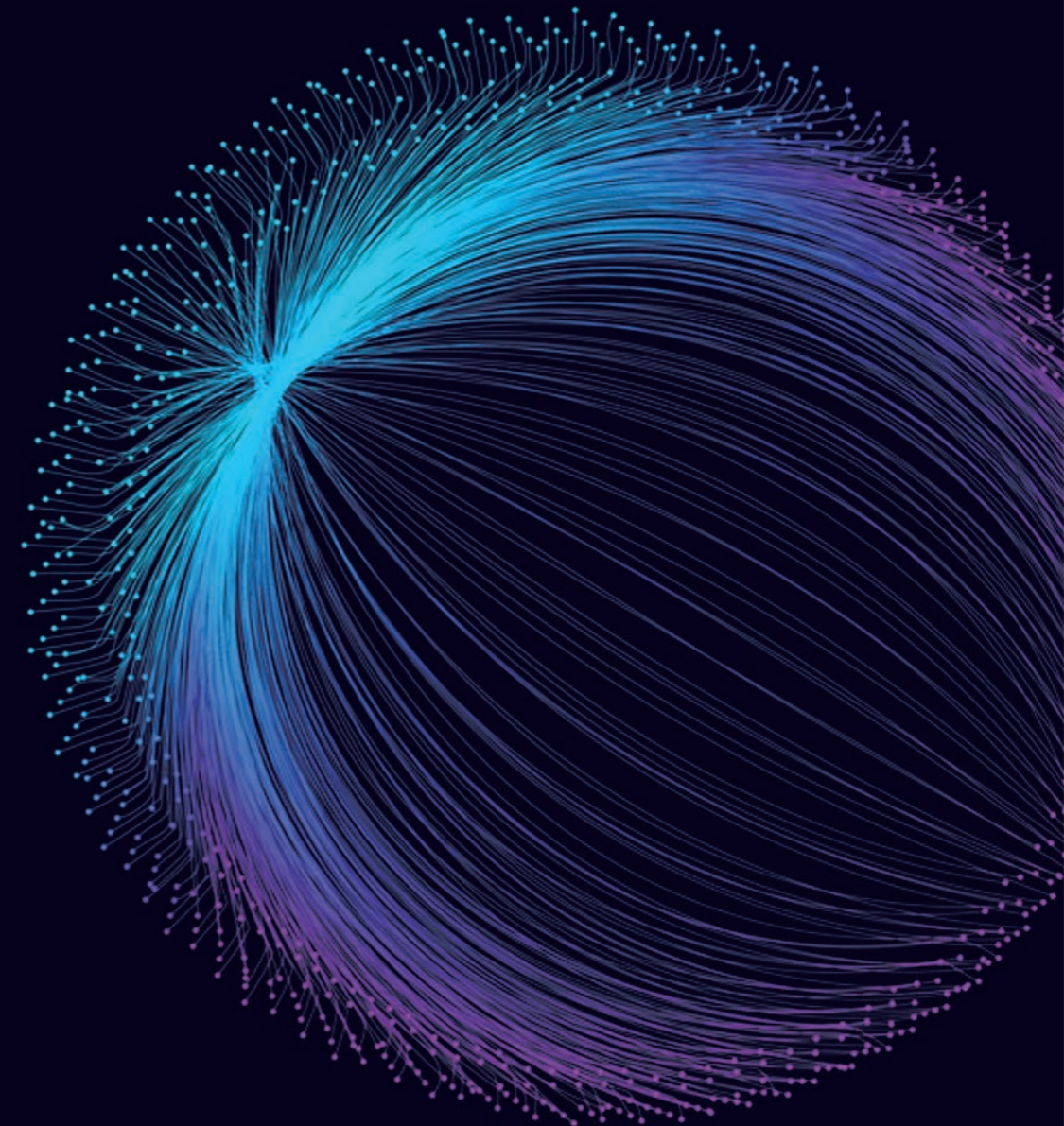



SPON

DIGITAL CONFERENCE & SOUND AMPLIFIER SYSTEM



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Please recycle 

 SGX30T4



COMPANY INTRODUCTION


Established in 2004 in Changsha, China, SPON Communications has become a prominent name in digital network audio and intercom systems. Known for pioneering IP Audio solutions, it's gained wide

Recognition in sectors like finance, transportation, education, and industry.


SPON is dedicated to providing trusted audio IoT solutions worldwide.

CORE PRODUCT

 IP PA System

 IP Conference System

 IP Intercom Sytem

 IP Surveillance Microphone System



CONTENTS

COMPANY INTRODUCTION

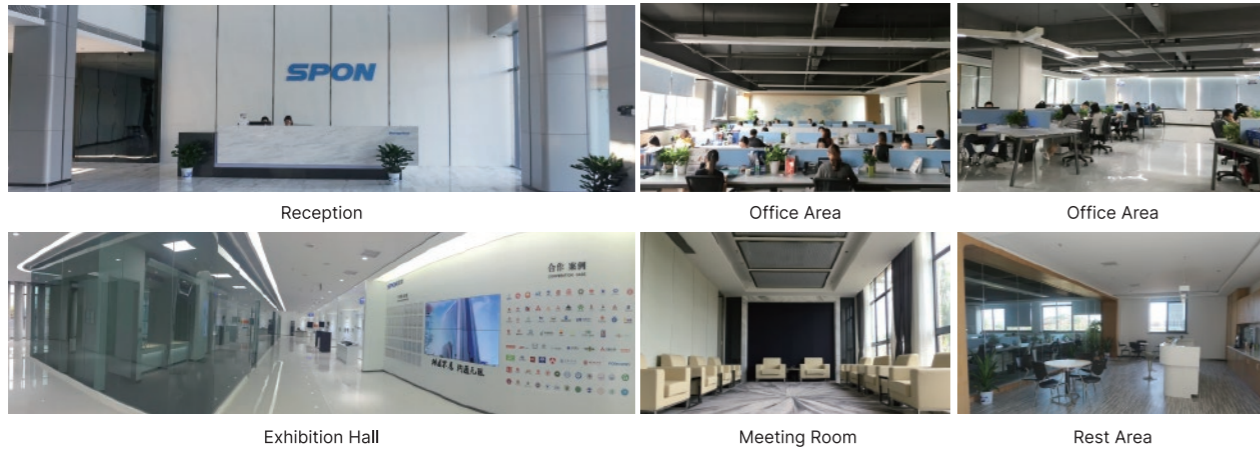
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PRODUCT INTRODUCTION

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Professional Power Amplifier	P41
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Subwoofer	P53
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ENVIRONMENT

SPON provides employees with a good working environment and cultural atmosphere.



Reception

Office Area

Office Area

Exhibition Hall

Meeting Room

Rest Area

MANUFACTURE



SMT Workshop

Warehouse

High-Low Temperature Testing

Final Assembly Workshop

Anechoic Chamber

Quality Inspection

SPON has diverse SMT production lines including automatic and full-vision solder paste printing, nine high-speed mounters, 16-zone reflow soldering, and AOI inline inspection. Our products undergo rigorous high-temperature aging and vibration tests before shipment.

BRAND PUBLICITY

SPON actively participates in global exhibitions and organizes seminars and exchange activities



CPSE

Palm

CeBIT

ISC WEST

QUALIFICATION



High-Tech Enterprise Certification



Software Enterprise Certification



China Security Industry Membership



Top Ten National Security Brand in China



ISO9001 Certification



ISO14001 Certification



Hunan AAA Credit Rating

CERTIFICATION



CCC Certification



CE Certification



Military Security Certification



Ministry of Public Security Certification



Invention Patent Certificate



Utility Model Certification

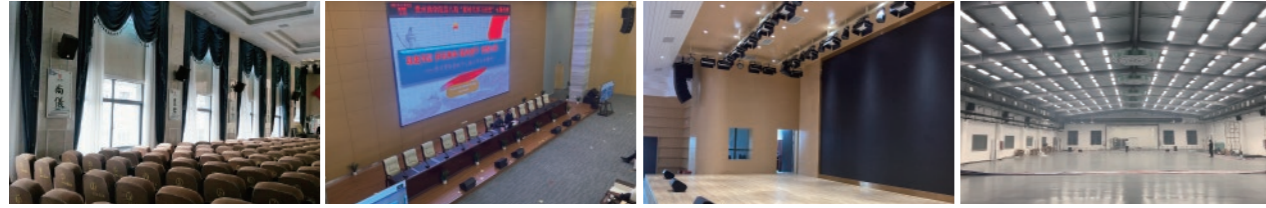


Design Patent Certification

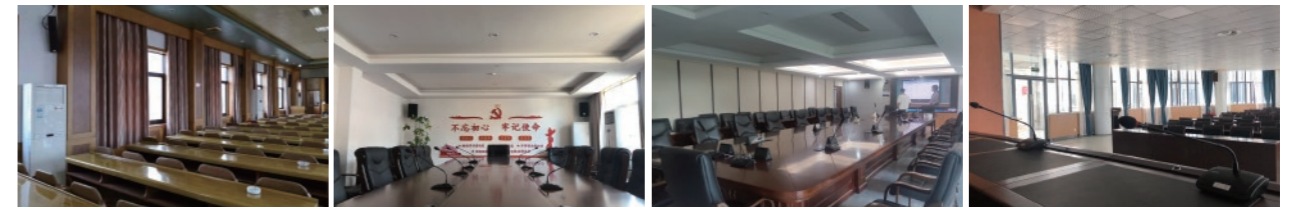
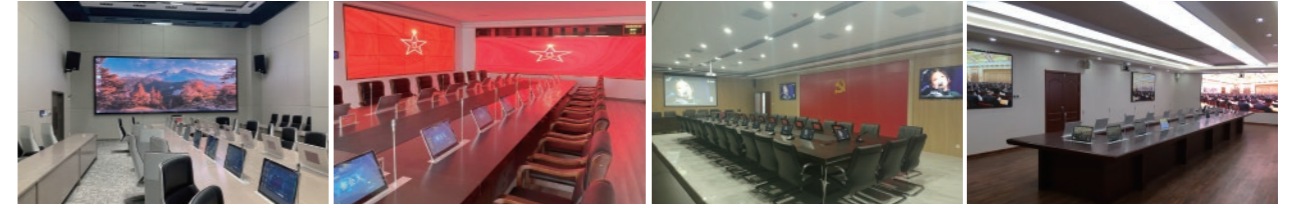


Computer Software Copyright

PROJECT CASE



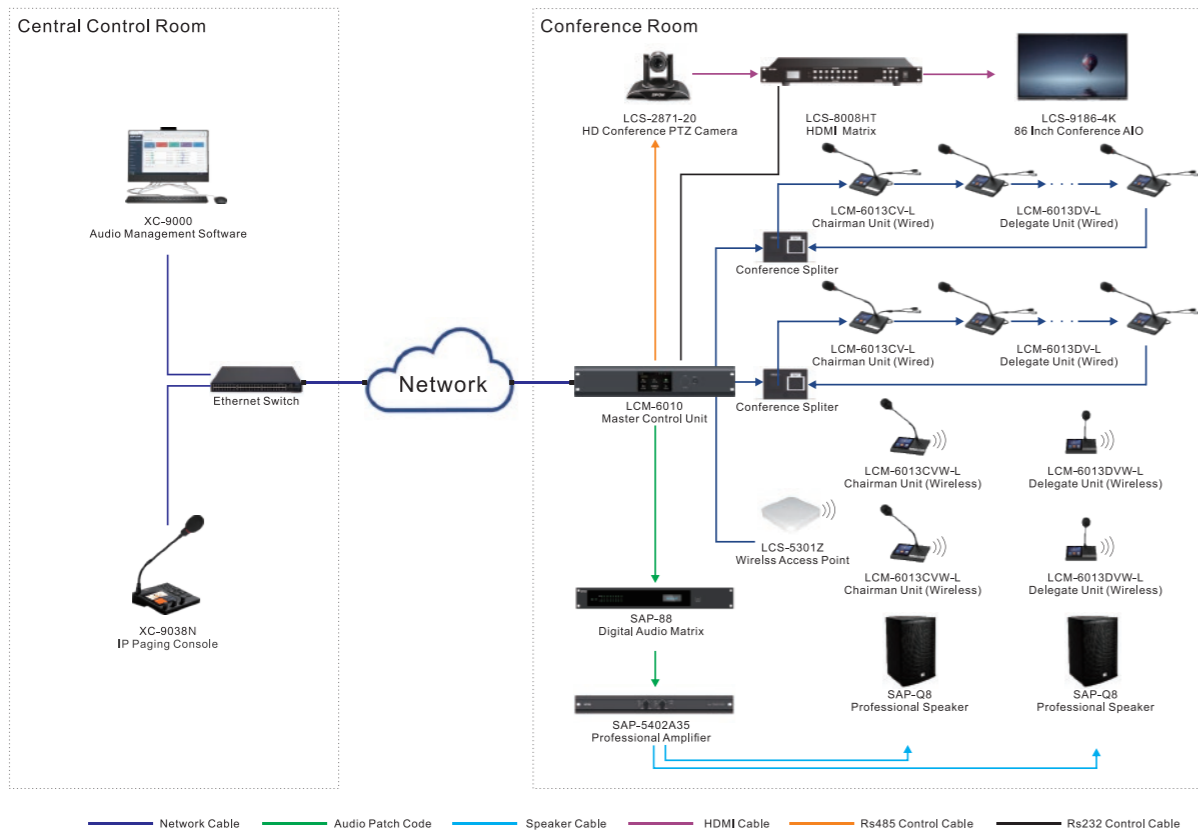
PROJECT CASE



Conference System



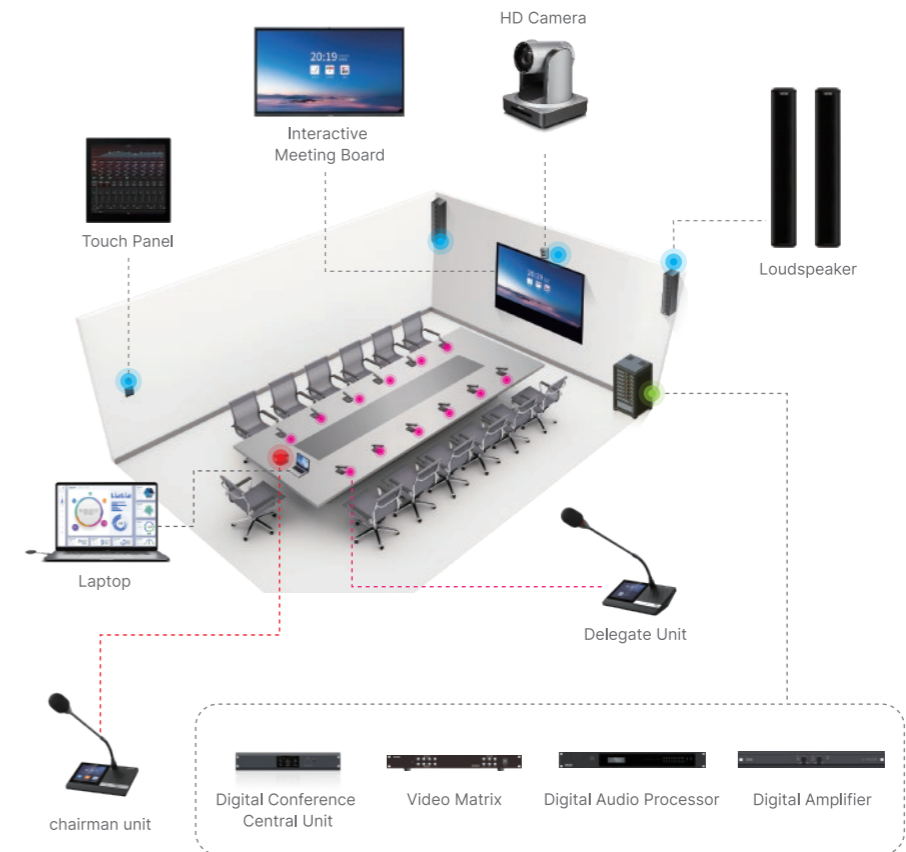
Conference System



System Solution

SYSTEM SCHEME

Meeting room



- Local Meeting Discussion
- Remote Video Conference
- Auto Video Tracking

This system is ideal for small to medium lecture halls and meeting rooms, supporting up to 40 wired mics and 40 wireless mics with a central unit. It features 2.4G/5.2G/5.8G Wi-Fi and camera tracking. A 4-inch, 480x480 resolution touch screen allows for real-time meeting sign-ins and voting. Powered by a 4000mAh battery for 6 hours of use, it charges quickly via Type-C. It offers various speech modes like first-in-first-out, application for speech, countdown, limitations, and chairman mode. Bluetooth and Wi-Fi support enable it to function as a sound card for audio playback and remote conferencing.

Premium Conference System



■ Premium Conference System



LCS-5251/5252C
(Chairman)



LCS-5251/5252D
(Delegate)



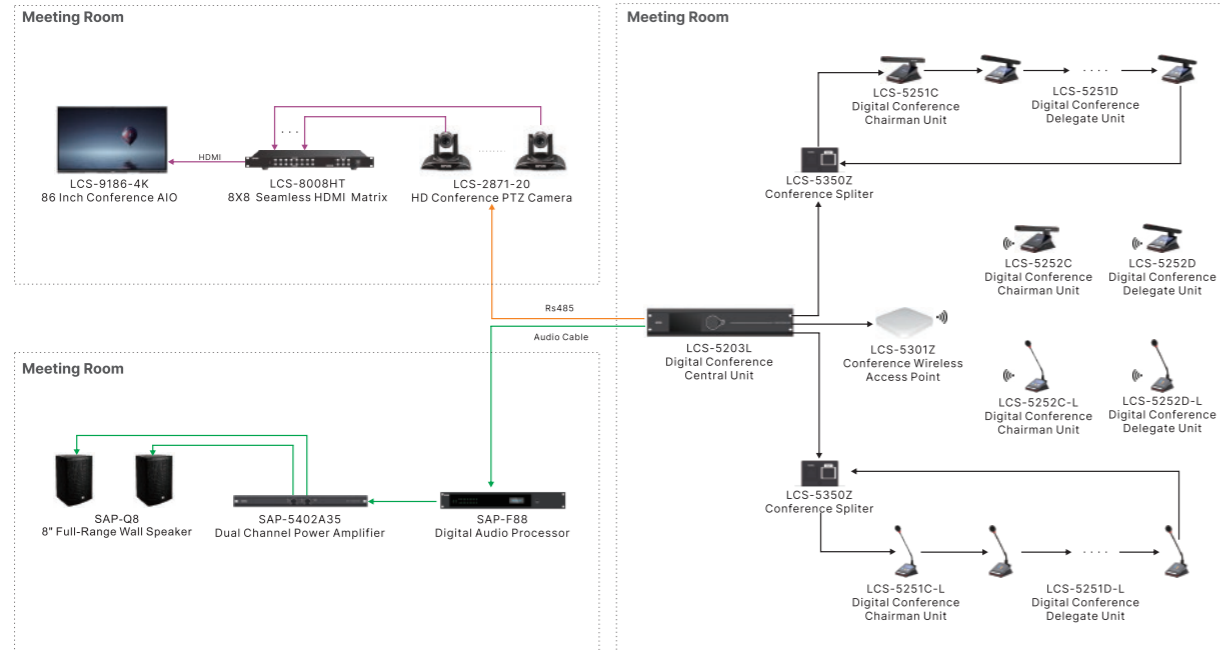
LCS-5203L
(Digital Conference Central Unit)



LCS-5251/5252C-L
(Chairman)



LCS-5251/5252D-L
(Delegate)



System Solution

SYSTEM SCHEME

■ Lecture Hall



This adaptable conference system is perfect for small to medium-sized venues, supporting up to 40 wired and 40 wireless microphones. It offers 2.4G/5.2G/5.8G Wi-Fi and features a 4.3-inch touch screen for user-friendly operation. With ports for Ethernet, USB, PTZ cameras, and audio processors, it ensures versatile connectivity and video tracking. Each unit has a touch screen for interactive sign-ins, voting, and discussions. It delivers lossless audio over CAT5e/CAT6 with less than 10ms latency and allows for direct USB recording in AAC. Bluetooth capability enables connection with mobile devices and computers for remote conferencing on Skype, Teams, and Zoom.



DIGITAL CONFERENCE CENTRAL UNIT

LCS-5203L/LCS-5201A



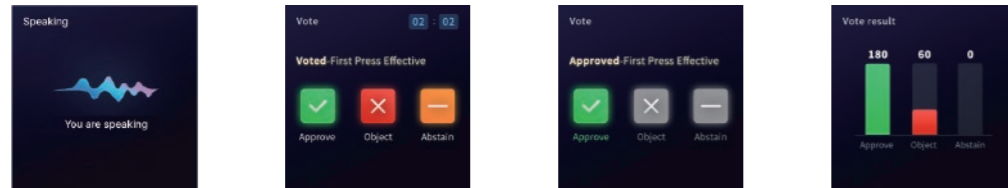
SPON's IP Digital Conference System is a network conference product that integrates wired stability and wireless flexibility. The same conference central unit can simultaneously manage wired speech units and wireless speech units, suitable for use in small and medium-sized conference rooms, multifunctional halls, lecture halls, and other venues.

Flexible Arrangement

According to the size of the conference room and functional requirements, the system can be flexibly built using wired networking, wireless networking, or a combination of wired and wireless networking.

Roll call voting

Both wired and wireless conference units support conference check-in and voting functions.



Speaker List

The system supports a speaker list feature, where all speaking units can view information about the current speaker as well as queued speakers. The chairman unit has the authority to allow or prohibit any representative from speaking.

Parameter adjustment

The IP conference system software allows for individual or unified adjustment of parameters such as volume, audio equalization, and automatic mixing for the speaking units, effectively addressing the issue of microphone feedback in specific locations in the hand-in-hand conference system.

Wireless transmission

The Unbounded IP conference system supports Bluetooth connectivity, enabling mobile devices like smartphones, tablets, and laptops to make calls, play audio, and participate in remote video conferencing via the conference central unit's Bluetooth connection.

System integration

The system features customizable external device control, allowing for the control of external devices via the conference central unit's RS232 port, enabling multi-device integration.

Product Features

- 4.3" full-color display screen, with a user-friendly and intuitive UI interface.
- Multi-functional shuttle buttons for quick operations, allowing precise adjustment of every system parameter.
- Supports ring network digital transmission and daisy-chaining; can support up to 2 independent ring networks.
- 48 kHz audio sampling lossless transmission with less than 10ms transmission latency, ensuring audio quality is not affected.
- Allows individual or unified adjustment of input volume, AGC, EQ, and other audio parameters for each speaking unit.
- Individual adjustment of speaking unit names, roles, and PTZ camera presets.
- Supports wireless access via devices such as PCs, smartphones, and tablets, allowing real-time adjustment and debugging.
- Compatible with Pelco_D, Pelco_P, and VISCA camera communication protocols.
- Built-in RS232 control interface for connecting to central control or directly controlling external video switch matrices, with customizable control commands for different brands of matrices.
- Supports real-time recording function via USB flash drive, with a maximum support of 64GB FAT-formatted USB drives; recording format uses AAC encoding compression, capable of simultaneous recording of 10 audio channels.
- Supports hot-pluggable seat microphones; plug and play without the need for configuration.
- Ring network supports automatic self-checking and automatic diagnosis; provides fault cause prompts.
- Supports balanced outputs via Cannon socket and 2-pin terminal; unbalanced output via RCA socket, meeting requirements for local amplification, conference recording, and remote video conferencing.
- Supports Bluetooth audio input, wired/wireless Wi-Fi control and IP call intercom function.
- Supports Wi-Fi conference units, capable of displaying Wi-Fi unit battery levels and other information (LCS-5203L).
- Supports local roll call and voting functions (LCS-5203L).

Technical Parameters

Power Supply, Power Consumption:	AC110V-220V/50HZ, ≤10W (without microphone connected)
Network Communication Protocol:	TCP/IP, UDP, ARP, ICMP, IGMP, HTTP
Network Chip Speed:	100Mbps
Audio Encoding Format:	MP3/PCM/ADPCM
Audio Sampling Rate, Bit Rate:	8KHz-44.1KHz, 16-bit, 8Kbps-320kbps
Signal-to-Noise Ratio (SNR):	>83dB
Frequency Response:	40Hz-18KHz
Display Screen:	4.3-inch touch color LCD screen
Resolution:	480*272
Interfaces:	RJ45 network port*1, USB port*1, balanced output*1, balanced output*1, RCA stereo line output*1, ring network output*2
Operating Temperature, Humidity:	0-45°C, ≤90% (non-condensing)
Product Dimensions:	483*204.5*89mm(Width * Depth * Height)

DESKTOP WIRED CONFERENCE MICROPHONE UNIT

LCS-5251C/LCS-5251D/LCS-5251C-L/LCS-5251D-L



LCS-5251C (Gun-shaped Chairman Unit) LCS-5251D (Gun-shaped Delegate Unit) LCS-5251C-L (Gooseneck Chairman Unit) LCS-5251D-L (Gooseneck Delegate Unit)

Product Features

- 4.3-inch full-color touch display screen, resolution of 480*480.
- The chairman unit can initiate conference check-in, voting, and agenda; results are displayed in real-time.
- The chairman unit has the authority to approve or prohibit delegate units from speaking.
- The chairman unit can display the current speaker's name, seat number, and a list of waiting speakers in real-time.
- The chairman unit can access the intercom server directory and initiate IP intercom functions via IP address or directory.
- The microphone stem features a specially designed acoustic chamber for an elegant appearance.
- Equipped with a 14mm diameter supercardioid gold-plated high-fidelity capacitor microphone head for extended pickup range.
- Independent XLR analog audio output interface with digital-analog dual backup function (for chairman unit only).
- Fully digital signal transmission with strong anti-interference capability.
- The microphone stem has a status indicator light; it illuminates red during operation.
- The base has a status indicator light ring to indicate the current status of the microphone.
- Two RJ45 female interfaces for connecting to the conference host and loop backup via Cat5e or higher-grade cables.
- Features video tracking functionality.

Technical Parameters

	LCS-5251C/LCS-5251D	LCS-5251C-L/LCS-5251D-L
Screen:	4.3-inch capacitive touch screen	
Power Supply, Power Consumption:	DC24/0.5A, ≤3.5W	
Battery:	4000mha	
Standby Time:	6-8 hours	
Audio Encoding Format:	MP3/PCM/ADPCM	
Audio Sampling Rate:	8Khz-48Khz,16bit,8Kbps-320kbps	
Microphone:	Chairman Unit: Supercardioid Gold-Plated Hi-Fi Capacitor Microphone *2 Delegate Unit: Supercardioid Gold-Plated Hi-Fi Capacitor Microphone *1	Supercardioid Gold-Plated High-Fidelity Capacitor Microphone *1
Signal-to-Noise Ratio (SNR):	≥83dB	
Frequency Response:	40Hz-18KHz	
Interfaces:	RJ45 network port *2	
Operating Temperature:	0-45°C, ≤90%(non-condensing)	
Product Dimensions:	220×98.8×107.6mm	220×98.8×107.6mm; Standard microphone stem length: 380mm
Shell Material:	Aluminum alloy for the microphone pickup chamber, ABS for the base.	

DESKTOP WIRELESS CONFERENCE MICROPHONE UNIT

LCS-5252C/LCS-5252D/LCS-5252C-L/LCS-5252D-L



LCS-5252C (Gun-shaped Chairman Unit) LCS-5252D (Gun-shaped Delegate Unit) LCS-5252C-L (Gooseneck Chairman Unit) LCS-5252D-L (Gooseneck Delegate Unit)

Product Features

- 4.3-inch full-color touch display screen, resolution of 480*480.
- The chairman unit can initiate conference check-in, voting, and agenda; results are displayed in real-time.
- The chairman unit has the authority to approve or prohibit delegate units from speaking.
- The chairman unit can display the current speaker's name, seat number, and a list of waiting speakers in real-time.
- The chairman unit can access the intercom server directory and initiate IP intercom functions via IP address or directory.
- The microphone stem features a specially designed acoustic chamber for an elegant appearance.
- Equipped with a 14mm diameter supercardioid gold-plated high-fidelity capacitor microphone head for extended pickup range.
- Independent XLR analog audio output interface with digital-analog dual backup function (for chairman unit only).
- Ergonomically designed microphone base. Fully digital signal transmission with strong anti-interference capability.
- The microphone stem has a status indicator light; it illuminates red during operation.
- The base has a status indicator light ring to indicate the current status of the microphone.
- Supports magnetic charging; can be fully charged within 3 hours when powered off (compatible with LCS-5302Z).
- Equipped with a TYPE-C interface for charging and upgrades; Features video tracking functionality.

Technical Specifications

	LCS-5252C/LCS-5252D	LCS-5252C-L/LCS-5252D-L
Screen:	4.3-inch capacitive touch screen	
Power Supply, Power Consumption:	DC24/0.5A, ≤3W	
Battery:	4000mha	
Standby Time:	6-8 hours	
Audio Encoding Format:	MP3/PCM/ADPCM	
Audio Sampling Rate, Bit Rate:	8Khz-48Khz,16bit,8Kbps-320kbps	
Microphone:	Chairman Unit - Supercardioid Gold-Plated High-Fidelity Capacitor Microphone *2; Delegate Unit - Supercardioid Gold-Plated High-Fidelity Capacitor Microphone *1	Supercardioid Gold-Plated High-Fidelity Capacitor Microphone *1
Screen:	4.3-inch capacitive touch screen	
Signal-to-Noise Ratio (SNR):	≥83dB	
Frequency Response:	40Hz-18KHz	
Connection Method:	Wireless	
Storage:	Built-in SPI FLASH	
Operating Temperature, Humidity:	0-45°C, ≤90% (non-condensing)	
Product Dimensions:	220×98.8×107.6mm	220×98.8×107.6mm; Standard microphone stem length: 380mm
Shell Material:	Aluminum alloy for the microphone pickup chamber, ABS for the base	

MASTER CONTROL UNIT (WIRED/WIRELESS) LCM-6010



Product Features

- Full Digital Conference System Host: Suitable for medium to small sized conference rooms and lecture halls.
- MultiFunctional Integration: Combines wired and wireless conference discussions, video tracking, conference registration, voting, service calling, and matrix control into one system.
- Various Speaking Modes: Offers multiple modes for managing conference speeches.
- External Bluetooth Audio Support: Allows for Bluetooth audio input and output.
- Customizable Microphone Unit Roles: Allows customization of roles and names for microphone units.
- Speech List Function: Manages the order of speakers.
- Comprehensive Software: Supports crossplatform conference management, registration, and voting software suitable for large meetings like those held by the People's Congress or Political Consultative Conference.
- Remote Access: Allows system parameter adjustments via smartphones, tablets, or PCs

Technical Specifications

Power Supply	100V-240V~50HZ-60HZ	Resolution	480 × 272
Power Consumption	≤10W (when no microphone is connected)	Network Port	RJ45 × 1
Protocols	TCP/IP, UDP, ARP, ICMP, IGMP, HTTP	USB Port	USB x 1
Network Chip Rate	100 Mbps	Balanced Output	Phoenix x 1
Audio Encoding Formats	MP3, PCM, ADPCM	Balanced Output	XLR x 1
Sampling Rates	8 kHz to 44.1 kHz	Unbalanced Output	RCA x 1
Bit Depth	16bit	Ring Network Output	x 2
Bit Rates	8 kbps to 320 kbps	RS232 Serial Port	x 1
SignaltoNoise Ratio	>83 dB	485 Communication Interface	x 1
Frequency Response	40 Hz to 18 kHz	Temperature Range	0°C to 45°C
Screen Size	4.3 inches	Humidity	≤90% (noncondensing)
Type	Touchscreen Color LCD	Product Dimensions	483 mm x 204.5 mm x 89 mm

MICROPHONE UNIT (WIRED) LCM-6013CV-L & LCM-6013DV-L



Product Features

- 4-inch Full-color Touch Screen Display, Resolution 480*480.
- Hypercardioid Capacitive Microphone Head.
- Fully digital signal transmission with strong anti-interference capability.
- Indicator light on the microphone stem shows speaking status; lights up in red during operation.
- Two RJ45 female socket interfaces for daisy-chaining via CAT6 cables to connect to the conference host.
- Supports video tracking functionality.
- Allows the conference host to individually set microphone input gain, EQ, and automatic gain control.
- LCM-6013CV-L can initiate meeting attendance, voting, and agenda setting. Attendance and voting results are displayed in real-time.
- LCM-6013CV-L has the authority to approve or mute delegate units.
- LCM-6013CV-L Real-time display of current speaker's name, seat number, and waiting speaker list.
- LCM-6013DV-L Supports conference check-in, voting agenda, real-time display of check-in and voting results.
- LCM-6013DV-L Real-time display of current speaker's name, seat number, and waiting list.

Technical Specifications

Model No.	LCM-6013CV-L	LCM-6013DV-L
Power Supply	100V-240V~50HZ-60HZ 1A.	
Power Consumption	Microphone unit Power Consumption ≤ 3.5W	
Audio Coding Format	MP3/PCM/ADPCM	
Audio Sampling Rate, Bit Rate	8KHz-48KHz, 16-bit, 8Kbps-320kbps	
SNR	≥83dB	
Screen	4-inch capacitive touch screen	
Screen Resolution	480*480 (RGB)	
Headphone Output Interface	φ3.5mm stereo jack	
Storage	Built-in SPI FLASH	
Connection Method	Category 6 network cable	
Microphone	14mm gold-plated electret condenser microphone	
Microphone Polar Pattern	Cardioid	Heart-shaped
Microphone Frequency Response	20Hz-20KHz	
Microphone Sensitivity	-38dB, 12.6mV / Pa (0 dB = 1 V/Pa @ 1 kHz)	
Max SPL of Microphone	130 dB SPL (1% THD @ 1 kHz)	Product Introduction
Interfaces	RJ45 Ethernet ports *2, connected to the next microphone unit	
Operating Temperature and Humidity	0-45°C, ≤90% RH (non-condensing)	
Microphone Base Dimensions	483×229.5×89mm	

MICROPHONE UNIT (WIRELESS) LCM-6013CVW-L & LCM-6013DVW-L



Product Features

- 4-inch Full-color Touch Screen, resolution 480*480.
- Wireless Transmission Frequencies: 2.4GHz/5.2GHz/5.8GHz.
- Wireless Transmission Encryption: WPA/WPA2.
- 4000mAh Lithium Polymer Battery.
- Has Video Tracking Functionality.
- Allows the conference host to independently set microphone input gain, EQ, and automatic gain control.
- LCM-6013CVW-L can initiate attendance registration, voting agenda, and display real-time registration and voting results.
- LCM-6013CVW-L has the authority to approve or prohibit delegate speeches.
- LCM-6013CVW-L can display real-time speaker names, seat numbers, and waiting speaker lists.
- LCM-6013DVW-L Real-time Display of Current Speaker's Name, Seat Number, and Waiting Speaker List.

Technical Specifications

Model No.	LCM-6013CVW-L	LCM-6013DVW-L
Power Consumption	3W	
Battery	4000mAh	
SNR (SNR), Frequency Response	≥83dB, 40Hz-18KHz	
Continuous Speaking Time	6 hours, Screen On Standby Time approximately 8 hours	
Screen	4-inch Capacitive Touch Screen	
Screen Resolution	480*480 (RGB)	
Headphone Output Interface	φ3.5mm Stereo Jack	
Storage	Built-in SPI FLASH	
Connection Method	WiFi Wireless Connection	
Microphone Directivity	Cardioid	Hypercardioid
Microphone Frequency Response	20-20,000 Hz	
Microphone Sensitivity	-38dB, 12.6mV / Pa (0 dB = 1 V/Pa @ 1 kHz)	
Max SPL (SPL) of Microphone	130 dB SPL (1% THD @ 1 kHz)	
Operating Temperature and Humidity	0-45°C, ≤90% (Non-condensing)	
Microphone Base Size	168×58×103mm	

WIRELESS CHARGING STATION LCM-6015P



Product Features

- Supports 12 USB charging ports.
- Each charging port supports a 5W charging power, with a total power of 75W.
- Active cooling fan.
- Includes overcharge protection.

Technical Specifications

Power Supply:	100V-240V ~ 50Hz/60Hz, 1A
Rated Output Power:	USB single port ≤ 5W
Cooling:	Active cooling
Interfaces:	12 USB ports, power input port
Operating Temperature:	0°C to 45°C
Operating Humidity:	≤ 90% (noncondensing)
Enclosure Material:	Aluminum alloy
Product Dimensions:	483 × 236.5 × 89 mm
Operating Altitude:	Up to 2000 meters

DESKTOP WIRED CONFERENCE MICROPHONE UNIT

LCS-5253C/LCS-5253D/LCS-5253C-L/LCS-5253D-L



LCS-5253C
(Gun-shaped Chairman Unit)



LCS-5253D
(Gun-shaped Delegate Unit)



LCS-5253C-L
(Gooseneck Chairman Unit)



LCS-5253D-L
(Gooseneck Delegate Unit)

Product Features

- The chairman unit has the authority to prohibit delegate units from speaking.
- The microphone stem features a specially designed acoustic chamber, providing an elegant appearance.
- Equipped with a 14mm diameter supercardioid gold-plated high-fidelity capacitor microphone head, offering an extended pickup range.
- Independent XLR analog audio output interface with digital-analog dual backup functionality (for chairman unit only).
- Ergonomically designed microphone base for enhanced user comfort.
- Fully digital signal transmission with strong anti-interference capability.
- The microphone stem is equipped with a status indicator light that illuminates red during operation.
- The base has a status indicator light ring to indicate the current status of the microphone.
- Features two RJ45 female interfaces for connecting to the conference host and loop backup via Cat5e or higher-grade cables.
- Supports video tracking functionality.

Technical Parameters

	LCS-5253C/LCS-5253D	LCS-5253C-L/LCS-5253D-L
Power Supply, Power Consumption:	DC24/0.5A, ≤2W	
Audio Encoding Format:	MP3/PCM/ADPCM	
Audio Sampling Rate, Bit Rate:	8KHz-48KHz, 16-bit, 8Kbps-320kbps	
Microphone:	Chairman Unit: Supercardioid Gold-Plated High-Fidelity Capacitor Microphone *2 Delegate Unit: Supercardioid Gold-Plated High-Fidelity Capacitor Microphone *1	Supercardioid Gold-Plated High-Fidelity Capacitor Microphone *1
Signal-to-Noise Ratio (SNR):	≥83dB	
Frequency Response:	40Hz-18KHz	
Connection Method:	Cat5e or higher-grade network cable	
Interfaces:	RJ45 ports *2 connected to the next microphone unit	
Operating Temperature, Humidity:	0-45°C, ≤90% (non-condensing)	220×98.8×107.6mm; Standard microphone stem length: 380mm
Product Dimensions:	220×98.8×107.6mm	
Shell Material:	Microphone pickup chamber - Aluminum alloy, Base - ABS	

DESKTOP WIRED CONFERENCE MICROPHONE UNIT

LCS-5250C/LCS-5250D/LCS-5250C-L/LCS-5250D-L



LCS-5250C
(Gun-shaped Chairman Unit)



LCS-5250D
(Gun-shaped Delegate Unit)



LCS-5250C-L
(Gooseneck Chairman Unit)



LCS-5250D-L
(Gooseneck Delegate Unit)

Product Features

- The microphone adopts a square short rod design, which is aesthetically pleasing.
- Fully digital signal transmission with strong anti-interference capability.
- The microphone stem is equipped with a status indicator light; it illuminates red during operation.
- The base has a self-check indicator light to provide feedback on the current loop status.
- High-fidelity microphone with extended pickup distance and excellent sound reproduction.
- Features two RJ45 female interfaces for connecting to the conference host and loop backup via Cat5e or higher-grade cables.
- The chairman unit has priority speaking rights and can close other attendee units at any time.
- The chairman unit has an approval button; in request-to-speak mode, it can approve requests from delegate units to speak.
- Built-in video tracking functionality.

Technical Parameters

	LCS-5250C/LCS-5250D	LCS-5250C-L/LCS-5250D-L
Power Supply, Power Consumption:	DC24/0.5A, ≤1W	
Audio Encoding Format:	MP3/PCM/ADPCM	
Audio Sampling Rate, Bit Rate:	8KHz-48KHz, 16bit, 8Kbps-320kbps	
Microphone:	Supercardioid Gold-Plated High-Fidelity Capacitor Microphone *1	
Signal-to-Noise Ratio (SNR):	≥83dB	
Frequency Response:	40Hz-18KHz	
Connection Method:	Cat6 network cable	
Interfaces:	Connected with RJ45 ports *2 to the next microphone unit	
Operating Temperature, Humidity:	0-45°C, ≤90% (non-condensing)	
Product Dimensions:	220×98.8×107.6mm	160×95×380mm; Standard microphone stem length: 380mm
Shell Material:	Microphone pickup chamber: Aluminum alloy, Base: ABS	

PERIPHERAL PRODUCTS

WIRELESS DIGITAL CONFERENCE ACCESS POINT LCS-5301Z



Product Features

- CPU: MT7981B+MT7976CN+7531AE;
- Provides better transmission quality, higher transmission rate, and a maximum concurrent rate of up to 3000Mbps;
- Supports hardware watchdog function, automatic recovery of abnormal devices, maintenance-free;
- Elegant appearance design, port-hidden shell, neat wiring;
- 1* 10/100/1000M adaptive WAN port, supports 48V POE power supply;
- 1* 10/100/1000M adaptive LAN port;
- Built-in 2 2.4G antennas and 3 5G antennas;
- Supports two power supply methods: 48V PoE and DC 12V.

IP WIRELESS DIGITAL CONFERENCE CHARGING BOX LCS-5302Z



Product Features

- Supports 8 magnetic suction contact charging bases and 4 USB-A charging ports;
- Each magnetic suction contact charging base has a charging power of 12W, which can fully charge the speaking unit within 2.5 hours;
- USB-A ports support a charging power of 5W, fully charging the speaking unit within 3 hours;
- Total output power is 120W.

CONFERENCE RELAY LCS-5351Z



Product Features

- Used to minimize voltage loss caused by longer extension cords;
- Amplifies host communication and power supply signals, compensating for signal attenuation;
- Requires the use of Cat5e or higher-grade network cables for connection;
- Comes with a built-in power adapter and requires separate power supply.

Microphones and Peripheral Equipment

UHF ONE-TO-TWO WIRELESS MICROPHONE NAC-5019/NAC-5019B



NAC-5019
2 Handheld Wireless Microphones



NAC-5019B
2 Lavalier Wireless Microphones

Product Features

- Channel Groups: Dual-channel
- Mounting Method: Fixed-type receiver module
- Panel Display: LCD liquid crystal display can simultaneously display RF/AF signal strength, automatic selection, and can set channel/frequency
- Oscillation Mode: PLL phase-locked frequency synthesis.

Technical Specifications

Frequency Stability:	±0.005% (-10~50°C)
Carrier Frequency Range:	UHF: 780.125MHz - 830.000MHz
Bandwidth:	50MHz
Frequency Interval:	125KHz
Switchable Frequencies:	400 groups
Operating Mode:	Manual adjustment
Receiving Mode:	Dual-tuner automatic selection
Sensitivity:	At deviation equal to 40KHz, input signal is 6dBμV, S/N > 80dB, with volume expansion
Maximum Deviation:	±68KHz
Comprehensive Signal-to-Noise Ratio S/N:	±105dB (1KHz-A)
Total Harmonic Distortion:	<0.5% at 1KHz
Overall Frequency Response:	50Hz-18KHz ±3dB with low frequency attenuation filter circuit
Maximum Output Voltage:	Balanced MIC-LEVEL-0dBV/600Ω, unbalanced 0dBV/600Ω
Output Socket:	XLR balanced socket for independent output and Φ6.3 unbalanced socket for mixed output, output level adjustable
Mute Control Mode:	Independent "tone and noise lock" dual mute control
Sensitivity Adjustment:	Adjust the receiving distance simultaneously using the rear panel control knob
Power Supply:	0.5A: 12-15VDC
Dimensions (Width * Depth * Height):	425*175*43mm

Optional accessory: NCA-5019B-T Headset Microphone, used to replace the NAC-5019B Lavalier Microphone.

UHF WIRELESS MICROPHONE LCS-1201-A/B/C/D/T



Handheld Wireless
Microphone



2 Lavalier Wireless
Microphones



1 handheld 1 Lavalier
wireless microphone



1 handheld 1 headset
wireless microphone



2 headset wireless
microphones

Product Features

- UHF Infrared Pairing;
- Electronic Volume Control (no potentiometer knob);
- One-key frequency lock to prevent misoperation (on the back of the receiver);
- The receiver has transmitter battery level monitoring.

Receiver Specifications

Frequency Stability:	±0.001%
Carrier Frequency Range:	UHF 612~850MHz
Signal-to-Noise Ratio:	>150dB
Distortion:	<0.5% @1KHz
Sensitivity:	1.2/UV @S/N=5dB
Power Supply:	DC 16 400mA
Audio Output:	Independent 0-400mV, Mixed 0-300mV

Handheld Microphone Specifications

Oscillation Mode:	Phase-Locked Loop (PLL) Frequency Synthesis
Carrier Frequency Band:	UHF 612~850MHz
Bandwidth:	50MHz
Frequency Adjustment:	Automatically locks to receiver operating channel
Output Power:	High power 30mW, low power 3mW
Harmonic Radiation:	<-55dBc
Maximum Deviation:	±45KHz
Frequency Stability:	±0.005%
Power Supply:	DC3V (1.5V AA * 2)

Waistband Transmitter Specifications

Oscillation Mode:	Phase-locked loop frequency synthesis (PLL)
Carrier Frequency Range:	UHF 612~850MHz
Harmonic Radiation:	Lower than the main wave by at least 45dBm
Bandwidth:	Single frequency band 86MHz (depending on the region)
Modulation Mode:	FM
Audio Compression:	Digital audio compression circuit
Audio Input Interface:	3-pin male XLR connector, with 3-level adjustable input gain
RF Output Power:	10mW /30mW
Power Supply:	DC3V (1.5VAA*2)

UHF ONE-TO-FOUR WIRELESS MICROPHONE LCS-2338/LCS-2338B/LCS-2338C



One-to-Four Wireless
Microphone 4handheld
LCS-2338



One-to-Four Wireless
Microphone 4lavalier
LCS-2338B



One-to-Four Wireless
Microphone 2handheld 2lavalier
LCS-2338C

Product Features

- HF frequency band transmits signals within the frequency range of 500MHz to 900MHz.
- Each receiver has four channels, with 100 selectable channels per channel, spaced at intervals of 250kHz. Each channel operates at a frequency of 24.75MHz.
- Utilizing stable PLL digital phase-locked loop synthesis technology and intelligent digital circuits, ensuring stable performance.
- Each channel is equipped with a unique ID number, supporting the simultaneous use of up to 10 units.
- Interchangeability among 400 channels across four channels highlights the humanized design of advanced technology.
- The back panel is equipped with 2 XLR balanced outputs and 1 mixed TS unbalanced output, which can be directly connected to a mixing console or audio processing equipment.
- Noiseless touch switches.
- The handheld part of the wireless microphone adopts aluminum alloy, with a radio frequency power selection switch. It allows users to choose between high (Hi) or low (Lo) power modes according to the actual environment. Selecting the low (Lo) mode can save battery power, extend usage time, and reduce interference with other frequency transmissions and receptions.
- The microphone consumes 80mA of power and is powered by 2 * 1.5V AA batteries, providing continuous usage for 8 hours.
- Operating range: In open environments, the range is 80-100 meters, while in complex environments, it is 50-80 meters.

Receiver specifications

Oscillation Mode:	Phase-locked loop frequency synthesis	Frequency Range:	UHF 500MHz ~ 900MHz
Frequency Stability:	±0.001%	Modulation Method:	FM
Signal-to-noise Ratio	>60dB	Distortion:	<0.5% @1KHz
Adjacent Channel Interference Ratio:	>80dB	Dynamic Range:	≥100dB
Sensitivity	1.2/μV @S/N=12dB	Maximum Frequency Deviation:	±30KHz
Audio Output	Independent 0 ~ 400mV, Mixed ~300mV	Power Supply:	DC:12V ~ 17V
Dimensions	420*220*44mm(Width * Depth * Height)	Weight:	4.5Kg

Microphone Specifications

Type:	Electret	Polar Pattern:	Cardioid
Carrier Frequency:	UHF 500MHz ~ 900MHz	Frequency Response:	40Hz to 20kHz
Microphone Sensitivity:	-43±3dB@1KHz	Power Consumption:	100mA
Power Supply:	DC 3V (1.5V AA*2)		

Optional accessory: LCS-2338B-T head-worn microphone, used as a replacement for the LCS-2338B lapel microphone.

UHF WIRELESS DELEGATE MICROPHONE

LCS-2339Z/LCS-2338Z/LCS-2338Z-8



One-to-Two Wireless
Microphone 2delegates
LCS-2339Z



One-to-Four Wireless
Microphone 4delegates
LCS-2338Z



One-to-Four Wireless
Microphone 8delegates
LCS-2338Z-8

Product Features

- UHF frequency band transmission, frequency range: 500MHz-900MHz;
- Multiple channels available, with each channel stepping at 250KHz; Noise-free touch switch;
- Stable performance with PLL digital phase-locked loop synthesis technology and intelligent digital circuitry;
- Each channel equipped with a unique ID number for enhanced anti-interference functionality;
- High-fidelity uni-directional condenser microphone, providing excellent sound reproduction with a pickup distance of 30-50CM;
- Two XLR balanced outputs and one mixed TS unbalanced output on the back, suitable for direct connection to audio devices;
- Flexible gooseneck microphone design allowing 360° adjustment, with microphone light ring indicating speaking status;
- Powered by 3*1.5V AA batteries, providing continuous use for 8-10 hours;
- Both the main unit and transmitter feature LCD screens displaying working status and other information;
- Operating distance: Open environment: 80-100 meters, Complex environment: 50-80 meters;
- Suitable for various conference and speaking scenarios.

Receiver Specifications

Oscillation Method:	Phase-Locked Loop Frequency Synthesis	Frequency Range:	UHF 500MHz~900MHz
Frequency Stability:	±0.001%	Modulation:	FM
Maximum Frequency Deviation:	±30 kHz	Adjacent Channel Interference Ratio:	>80dB
Signal-to-Noise Ratio:	>60dB	Sensitivity:	1.2/μV @S/N=12dB
Audio Output:	Independent 0~400mV, Mixed ~300mV	Distortion:	<0.5% @1KHz
Frequency Stability:	±0.001%	Dynamic Range:	≥100dB
Signal-to-Noise Ratio:	>60dB	Power Supply:	DC:12V~17V
Dimensions :	420*220*44mm(Width * Depth * Height)	Weight:	4.5 Kg, Total Weight: 7.5 Kg

Microphone Specifications

Type:	Electret
Frequency Response:	40Hz~20KHz
Power Consumption:	100mA

Professional-grade True Diversity Wireless Microphone

LCS-23300/LCS-2330B/LCS-2330T



LCS-23300
Wireless Handheld Microphone



LCS-2330B
Wireless Lavalier Microphone



LCS-2330T
Wireless Headset Microphone

Product Features

- Spectrum Management
- Interference Detection and Avoidance
- Automatically search for clear, interference-free frequencies when interference occurs;
- The interference detection function can be clearly queried on the host window, indicating possible sources of interference;
- If signal attenuation or interference occurs, users can switch to clear compatible frequencies manually or automatically;
- Frequency Diversity
- Ensure seamless audio signal transmission without interruption in case of signal interruption;
- Frequency diversity transmits on two independent frequencies simultaneously, ensuring uninterrupted wireless transmission;
- Power Management
- Intelligent, low-consumption, reliable power management system;
- Real-time battery levels can be viewed on both the transmitter and receiver.

Technical Specifications

Wireless Receiver	
Chassis Specifications:	Standard 1U
Channel Groups:	Dual-channel
Frequency Stability:	±0.005% PLL Locked Loop Frequency Control
Carrier Frequency Range:	UHF 603-935 MHz
Factory Preset Channels:	32 preset channels
Effective Working Distance:	Typically 90 meters (open space)
Oscillation Method:	PLL Locked Loop Frequency Control
Sensitivity:	S/N > 60dB with input 6dBuV at deviation of 25KHz
Bandwidth:	30MHz
Maximum Deviation:	±45KHz
Composite S/N Ratio:	>105dB
Composite T.H.D:	<0.7% @ 1KHz
Composite Frequency Response:	45Hz to 18KHz ±3dB
Power Supply:	100-240VAC 50/60 Hz, 10W
Weight:	3.6 Kg
Dimensions (H*W*D):	421*200*45mm
Output Sockets:	XLR Balanced and φ6.3 Unbalanced sockets

Technical Specifications

Wireless Handheld Transmitter		Wireless Waistband Transmitter	
Carrier Frequency Range:	UHF 603-935 MHz	Carrier Frequency Range:	UHF 603-935 MHz
Oscillation Method:	PLL Phase-Locked Frequency Synthesis	Oscillation Method:	PLL Phase-Locked Frequency Synthesis
Harmonic Radiation:	<-65dBm	Harmonic Radiation:	<-65dBm
Bandwidth:	120MHz	Bandwidth:	120MHz
Maximum Deviation:	±45KHz	Maximum Deviation:	±45KHz
Microphone Type:	Dynamic, Cardioid	Input Connector:	4-pin Mini XLR
RF Power Output:	3mW	RF Power Output:	3mW
Battery:	AAX2	Battery:	AAX1
Current Consumption:	100mA (typical)	Current Consumption:	160mA (typical)
Battery Consumption/Life:	Approximately 7 hours	Battery Consumption/Life:	Approximately 4.5 hours
Dimensions (Diameter*Length):	48*270mm	Dimensions:	74*70*24mm
Weight:	370g	Weight:	123g

SPLITTER SAP-ANT20



Product Features

- Features ultra-high dynamic range, low noise components, and wideband microstrip circuit design for minimal distortion and loss. Enables interference-free operation of multiple channel receiving systems.
- Antenna input connectors provide power for antenna amplifiers, supporting extended and built-in amplifier antennas.
- Simplifies antenna setup by allowing four wideband multi-channel receivers to share antennas and power through a splitter, facilitating cabinet installation.

Technical Specifications

Antenna Distribution:	4-channel dual-output	Antenna Output Connector:	TNC socket
Applicable Frequency Bandwidth:	500MHz ~ 850MHz	Antenna Input Connector with Power Supply:	Antenna inputs A and B each provide approximately 8V DC, 250 mA
Input cutoff Point:	+15dBm	Power Input:	Power supply input: 12V to 15V DC, 5A
Output/Input Gain:	+1.0dB±1dB	Power Output:	Power supply output: 12V DC, 1.2A each
Output Isolation:	>18dB 500MHz ~ 850MHz	Current Consumption (per unit):	Approximately 145 mA at 12V DC input
Output/Input Impedance:	50Ω	Weight, Dimensions (L * W * H):	Weight: approximately 1.8 kg Dimensions: 430*45*180 mm

ACTIVE DIRECTIONAL ANTENNA SAP-ZQS20



Product Features

- A logarithmic antenna designed for professional UHF frequency reception, suitable for a frequency range covering 500MHz—850MHz, exhibits excellent performance in environments requiring specific directional usage.
- It features a built-in adjustable gain amplifier, allowing users to adjust the gain according to the actual operating environment.
- The antenna also possesses basic waterproof capabilities, making it suitable for both indoor and outdoor environments.

Technical Specifications

Type:	External extension antenna	Standing Wave Ratio:	≤2.5
Frequency Band:	500MHz—850MHz	Receiving Mode (3dB beamwidth):	65° (vertical angle), 120° (horizontal plane)
Step-up Gain Total Gain:	0 — +18dB±2dB Step: ±1dB	Connector:	TNC female * 1
Step-down Attenuation Total Attenuation:	0 — -9dB±2dB Step: ±1dB	Current Consumption Approximately:	60mA / DC 8V
Antenna Impedance:	50Ω	Power Supply:	Bias voltage supply 6—10V DC
Antenna Gain:	3-5dB	Weight, Size (L * W * H):	Approximately 430g, 302*252*23mm

ANTENNA AMPLIFIER SAP-FDQ20



Product Features

- Antenna amplifier suitable for 500MHz—850MHz frequency signals, equipped with an adjustable output -9 to 18dB±1dB gain signal amplification circuit. Users can adjust the gain according to the actual operating environment.
- Includes a power supply unit to provide power to the built-in amplifier of the antenna, enabling effective operation of more complex external antenna distribution systems and allowing longer antenna cable runs to connect to multiple amplifiers.
- Features a zinc alloy housing with excellent heat dissipation characteristics, ensuring the amplifier circuit remains stable and guarantees an output voltage of DC 8V.

Technical Specifications

Frequency Range:	500MHz~850MHz	Voltage Regulated Output:	8V DC / max. 250mA
Step-up Gain Total Gain	0~+18dB±2dB, Step: ±1dB	Current Consumption:	Approximately 60mA/12V DC Input
Step-down Attenuation Total Attenuation	0~-9dB±2dB, Step: ±1dB	Connectors:	TNC Socket×2, 2.0 mm DC Socket×1
System Impedance:	50Ω	Dimensions (L*W*H):	92*74*21mm
External Power Supply Input	12~18V DC / min. 350mA	Weight:	Approximately 210g

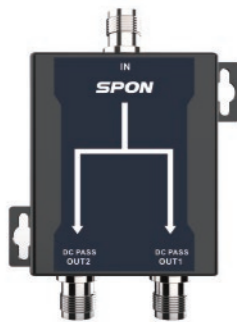
INDOOR PATCH ANTENNA SAP-MBX20



Product Features

- Frequency Range: 530-900MHz
- VSWR (Voltage Standing Wave Ratio): ≤ 2.0
- Typical Gain: 7dBi
- Vertical Beamwidth: 70 degrees
- Horizontal Beamwidth: 90 degrees
- Input Impedance: 50 Ω
- Polarization: Vertical
- Maximum Power: 50W
- Connector Type: TNC-K
- Dimensions (Length * Width * Height): 155*165*45 mm
- Weight: Approximately 300g
- Mounting Style: Wall-mounted/Ceiling-mounted

ANTENNA COMBINER SAP-HLQ20



Product Features

- Passive one-to-two antenna splitter/combiner: essential for distributing single-channel signals into dual-channel outputs or combining dual-channel signals into a single-channel output while powering the backend amplifier.
- This device splits a single-channel signal into dual-channel outputs or combines dual-channel signals into a single-channel output while providing power to the backend antenna amplifier.

WIRED MICROPHONE

48V WIRED PROFESSIONAL CONFERENCE MICROPHONE (48V PHANTOM POWERED) LCS-5303Z/LCS-5303Z-L



LCS-5303Z



LCS-5303Z-L

Product Features

- Advanced electrostatic isolation technology is employed to prevent static electricity generation even in dry environments and areas.
- Digital strong anti-interference technology ensures that devices in the venue are not affected by signals from phones, Bluetooth, radio, WiFi, and other sources.
- Built-in microphone preamp and amplifier components powered by external DC 48V phantom power.
- Equipped with a speech switch button for simple and fast operation.

Technical Specifications

	LCS-5303Z	LCS-5303Z-L
Microphone Capsule	Cardioid 14mm Diameter Gold-plated Condenser Capsule *1	
Frequency Response:	30Hz—20KHz	
Sensitivity:	-40dB \pm 2dB	
Microphone Shaft:	Square short shaft	Gooseneck microphone stand
Signal-to-Noise Ratio:	>82dB	>85dB
Output Impedance:	200 Ω	
Maximum Sound Pressure Level:	125dB	
Equivalent Noise Level:	16dB	
Operating Voltage:	48V	
Interface:	XLR	
Operating Environment:	0-45°C, $\leq 90\%$ (no condensing)	
Size:	220*98.8*107.6mm	220*98.8*107.6mm Standard microphone stand length: 380mm

PROFESSIONAL CONFERENCE MICROPHONE

LCS-2333/LCS-2333A (WITH ON/OFF SWITCH) (48V PHANTOM POWERED)



LCS-2333



LCS-2333A

Technical Specifications

Transduction Method	Electret
Frequency Response (Hz)	40Hz-16KHz
Directivity	Super-cardioid
Output Impedance (ohms)	75Ω
Sensitivity	-40dB±2dB
Power Supply Voltage (V)	DC3V/Phantom 48V automatic conversion
Configuration	8-meter single-core Canon male-female connector
Output Indication	Unbalanced, desk lamp, tube lamp
Interference Resistance	Resistance to mobile phone, electromagnetic, and high-frequency interference
Microphone Shaft Length	445mm
Weight	0.73Kg

POWER SEQUENCER SAP-S20



Product Features

- Front panel with 1 auxiliary output channel, which is a direct pass-through channel;
- 8-channel switch output, with adjustable delay on and off times for each channel;
- Each channel can be independently opened/closed, facilitating flexible device usage;
- Built-in clock chip, enabling automatic scheduled opening/closing of each channel;
- Supports RS232, panel button control switches, cascading, central device control;
- Each device has its own ID setting and detection, enabling remote centralized control;
- Rated total output current: 30A, single channel output current: 13A.

POWER SEQUENCER SAP-S50



Product Features

- Controlled by ARM 32-bit processor for precise timing and stable performance.
- Each of the 8 channels can withstand a total power of 8KW. Each channel is equipped with an independent high-performance RFI/EMI power filter, clean and stable.
- 2×24 LCD blue backlight display provides an intuitive operating interface.
- Each channel is equipped with an independent hardware emergency shutdown switch.
- Password protection function for better system power security management.
- Software editing function allows independent adjustment of channel delay times.
- Built-in timer for scheduled on/off functions, with a maximum setting of 12 months.
- Built-in central control code generator facilitates code editing by third-party devices.
- Built-in remote control allows users to operate the device from anywhere.
- Expandable and cascading settings with multiple units of the same model.
- TCP/IP, WIFI, USB, RS485, RS232 online control, and external (remote) control.
- Infrared learning and IO control function enable control of third-party devices.
- Equipped with 10A universal safety cover sockets compliant with national standards.

POWER SEQUENCER SAP-S80



Product Features

- Scheduled power on/off function with a maximum duration of 12 months.
- Can be connected to a computer for programming via software.
- USB, RS485, RS232, WIFI (optional) control methods, and remote line control.
- Each channel is equipped with an independent high-performance RFI/EMI power filter, providing clean and stable power to your devices.
- Provides 12 outlets, including 12 outlets with 10A and 16A capacity, as well as 2 pass-through outlets, all compliant with national standard power sockets.
- Maximum output current of 20A per channel.
- Uses a 3-core single-phase power wiring interface.
- Voltage indicator provides real-time indication of grid voltage.
- Panel button lock function for better protection of installation and performances.
- Can be cascaded with multiple units of the same model of power distributors.

Mixing Console Series



DIGITAL MIXING CONSOLE

Product Features

- Below 18 channels feature a 7-inch touchscreen with a resolution of 1024*600;
- 24 channels and above feature a 10-inch touchscreen with a resolution of 1280*800;
- 100mm motorized faders;
- Can be connected to a local area network, supporting full control on 8 iPad apps with real-time data synchronization;
- Built-in digital effects processor;
- Input channels support sine wave, pink noise, and white noise test signals;
- Input channels feature gain adjustment, parametric equalization, noise gate, feedback suppression, high-pass/low-pass filters, compressor, and other DSP modules;
- Output channels feature 8-band parametric equalization, high-pass/low-pass filters, compressor, phase inversion, delay, and other functions;
- Supports 100 scene presets, import/export via USB drive;
- Supports USB recording/playback, playing lossless audio formats such as APE, FLAC, MP3, WAV.

Digital Mixing Console

16-CHANNEL DIGITAL MIXING CONSOLE SAP-F16MIX



Technical Specifications

Input:	1~8 Balanced XLR/TRS combo input interfaces; Stereo Inputs: 9~16 TRS 1/4" stereo input jacks; 2 USB 3.0 input sound cards.
Output:	LR: Main bus outputs; 4 AUX auxiliary outputs; 1 TRS monitor.
Screen:	7-inch high-definition touchscreen, 1024*600 resolution.
Total Harmonic Distortion & Noise:	<0.002% @18dBu A+ Weighted.
Frequency Response (20~20kHz):	20HZ~20K:HZ, ±0.2dB
Sampling Rate:	48K
Quantization Bit Depth:	24bit
Signal-to-Noise Ratio:	-90dBu
Maximum Level (Input):	+20dBu balanced maximum input level,
Maximum Level (Output):	+15dBu balanced maximum output level.
Phantom Power:	48V
Analog-to-Digital Dynamic Range:	100dB
Digital-to-Analog Dynamic Range:	100dB
Input to Output Dynamic Range:	108dB
Input Impedance (Balanced):	20KΩ
Output Impedance (Balanced):	100Ω
Channel Isolation @1kHz:	100dB
Operating Temperature:	0°C-55°C
Operating Power Supply:	19/2A
Power Consumption:	30W

DIGITAL MIXING CONSOLE

SAP-F24S/SAP-F32S



Technical Specifications

	SAP-F24S	SAP-F32S
Input channels:	24 MIC/LINE inputs, 2 USB inputs, supporting S/PDIF, optical, and AES EBU digital input/output	32 MIC/LINE inputs, 2 USB inputs, supporting S/PDIF, optical, and AES EBU digital input/output
Output channels:	L/R stereo, 10-channel bus outputs, 2 stereo recording outputs, 1 stereo monitor output.	
Connection method:	Balanced inputs (XLR/6.35mm TRS combo jacks), balanced outputs (XLR).	
Number of faders:	17 100mm motorized faders.	
Display screen:	1 10-inch resistive touchscreen, 1280×800 resolution.	
USB functions:	Supports lossless music playback, recording, and firmware upgrades, can insert USB wireless network card.	
Input DSP:	4-band parametric EQ, noise gate, feedback suppressor, high-pass/low-pass filters, compressor, phase inversion.	
Output DSP:	8-band parametric EQ, high-pass/low-pass filters, compressor, phase inversion, delay.	
Effect modules:	2 effects sends (6 preset effect parameters, 80 user presets).	
Independent feedback suppressors:	16 channels.	
Number of scenes:	100 scenes.	
Wireless control:	Supports full control by 8 iPad terminal apps, real-time data synchronization.	
Grouping function:	8 fader groups, 8 user-defined buttons, 8 DCAs, 4 quick mute group buttons, with panel lock function buttons.	
Frequency response:	20Hz-20kHz (±0.5dB).	
Background noise:	-88dBu.	
Distortion:	<0.006% @4dBu 20-20kHz.	
Signal-to-noise ratio:	106dB.	
Dynamic range:	106dB.	
Maximum input/output level:	Balanced 20dBu (7.745Vrms, 21.9Vpp)	
Ethernet:	100M	
WiFi:	150M.	
Dimensions:	610×650×230mm.	
Net weight:	22.1kg.	
Power consumption:	155W.	
Power supply:	AC 100v-240v; 50/60Hz.	



Analog Mixing Console

Product Features

- Microphone inputs feature high-quality preamplifier modules to enhance microphone input sound quality and reduce noise.
- Built-in digital effects processor.
- Microphone inputs include 80Hz high-pass filters.
- 60-100mm high-resolution faders for smooth operation.
- Double-sided surface-mount technology (SMT) circuit boards for enhanced stability and performance.

ANALOG MIXING CONSOLE

SAP-F12A/SAP-F14A/SAP-F16A/SAP-F24A



SAP-F12A



SAP-F14A



SAP-F16A



SAP-F24A

Technical Specifications

	SAP-F12A	SAP-F14A	SAP-F16A	SAP-F24A
Input Channels:	Capable of 4 single-channel and 4 stereo-channel effects with 12 inputs	8 balanced gold-plated XLR inputs + 6 balanced 6.3mm MIC inputs	10 XLR inputs, 8 MIC inputs, and 4 stereo inputs channels	18 balanced gold-plated XLR inputs and 18 6.3mm balanced MIC inputs
Phantom power:	48V	48V	48V	48V
Frequency response range:	10Hz—200KHz	20Hz—50KHz	10Hz—55KHz	10Hz—55KHz
Noise:	-129 dBu	-100 dBu	-100 dBu	-100 dBu
Total Harmonic Distortion Plus Noise:	<0.005% @+4 dBu (THD+N)			
Sensitivity:	15 dB±3dB			
Signal amplification:	60dB@1kHz			
Crosstalk:	-90 dB@1 kHz			
DSP effects processor:	100 Types			
Preset modes:	99			
D/A converter:	24bit			
Maximum output level:	+22dBu			
Maximum input level:	+30dBu, Gain@+10dB			
Input impedance:	Microphone: 2.6KΩ, balanced; Stereo: 20KΩ, balanced; Auxiliary: 20KΩ, balanced; Recording: 24KΩ, balanced;			
Output impedance:	Main Output: 240Ω, balanced, 120Ω, unbalanced; Auxiliary: 120Ω, balanced; Recording: 1KΩ, balanced; Headphone: 25Ω, balanced;			
Level indicators:	4-bit LED lights	12-bit LED lights	12-bit LED lights	12-bit LED lights
Power supply:	100-240 VAC, 50 Hz;			
Physical dimensions (D*W*H):	259*272*41mm	431*438*86mm	431*493*86mm	545*770*190mm
Weight:	1.8Kg	4.5Kg	5.5Kg	14.4Kg

Digital Audio Processor



Network Digital Audio Processing Matrix

Product Features

- Processor: ADI SHARC 21489 @ 450 MHz SIMD;
- DSP processing capability: 400 MIPS, 1.6 GFLOPS;
- Input sensitivity adjustable in 17 levels, maximum up to 48 dB;
- Phantom power: +48V / Max 10mA;
- Configurable processing software, allowing each channel to freely change processing modules according to requirements;
- Supports operation of 8 devices simultaneously online;
- Maximum of 4 channels of independent AEC, maximum echo tail length: 512ms, convergence rate: 60dB/S, echo cancellation amplitude: 60dB;
- Independent channel AFC (feedback suppression) using notch filter algorithm, voice gain increase: 10dB;
- Adaptive Noise Suppression (ANS) does not rely on a large noise feature database, built-in noise cancellation technology, improving signal-to-noise ratio by 15dB;
- Automatic Gain Control (AGC), automatically controls signal waveforms and tones within appropriate ranges, automatic gain control: -6dB to +18dB, automatic equalization control: -12dB to +12dB;
- Ducker, Noise Gain Compensation (ANC), Gain Sharing Automatic Mixing (AM), Gate Mixer;
- 12-band parametric equalization, providing 5 filter selections: Parametric, Lowshelf, Highshelf, Lowpass, Highpass;
- Supports customized operation interface for end users, supporting management of up to 30 devices on the same interface;
- Built-in USB sound card, supporting music playback, recording, and software video conferencing (such as ZOOM, Tencent Meeting, DingTalk Meeting, etc.);
- Central control function for overall control of power, signal switching, environmental control, audio, etc., enabling one-touch activation of the required system functions; Customizable control interface according to different venue requirements.

DIGITAL AUDIO PROCESSING MATRIX

SAP-F88/SAP-F88DT/SAP-F1616H/SAP-F1616DT



SAP-F88 / SAP-F88DT



SAP-F1616H / SAP-F1616DT

Technical Specifications

	SAP-F88	SAP-F88DT	SAP-F1616H	SAP-F1616DT
Number of analog input and output channels:	8×8	8×8	16×16	16×16
Dante input/output channel count:	/	8×8	/	16×16
Front panel:	8 input tri-color LED indicators, 8 output tri-color LED indicators, OLED display, USB-A port		16 input tri-color LED indicators, 16 output tri-color LED indicators, OLED display, USB-A port	
Processor:	ADI SHARC 21489			
Processing power:	400 MIPS, 1.6 GFLOPS			
Sampling rate:	48K/24bit			
Functional algorithms:	4-channel independent AEC, independent channel AFC (feedback suppression), adaptive noise suppression (ANS), automatic gain control (AGC), ducker, noise gain compensator (ANC), automatic mixing with gain sharing (AM), gate mixer, 12-band parametric equalizer, USB sound card playback and recording, hot backup			
Input gain:	0/3/6/9/12/15/18/21/24/27/30/33/36/39/42/45/48 dBu			
Phantom power:	+48V/10mA max			
Frequency response:	20~20kHz(±0.3dB)			
Maximum level:	+18dBu			
THD+N:	<-94dB @17dBu			
Input dynamic range:	110dB			
Output dynamic range:	112dB			
Channel isolation @1kHz:	108dB			
Input impedance (balanced):	5.4KΩ			
Output impedance (balanced):	600Ω			
System latency:	<3ms			
Power supply:	AC110~240V,50Hz/60Hz			
Interface:	8 analog input ports, 2*12P Phoenix connectors 8 analog output ports, 2*12P Phoenix connectors 2 RJ45 Dante primary/secondary ports (SAP-F88DT only) 1 RS232 port, 2*12P Phoenix connectors 1 RS485 port, 3P Phoenix connector 1 RJ45 port, 100-1000 Mbps 8 GPIO ports		16 analog input ports, 4*12P Phoenix connectors 16 analog output ports, 4*12P Phoenix connectors 2 RJ45 Dante primary/secondary ports (SAP-F1616DT) 1 RS232 port, 2*12P Phoenix connectors 1 RS485 port, 3P Phoenix connector 1 RJ45 port, 100-1000 Mbps 8 GPIO ports	
Dimensions (width x depth x height):	482 × 260 × 45mm			
Weight:	4KG			



Professional Power Amplifier

DUAL-CHANNEL DIGITAL POWER AMPLIFIER

SAP-5402A35/SAP-5402A50/SAP-5402A70



Product Features

- 1U slim chassis with a sleek and simple design
- Ultra-low standby power with up to 90% operating efficiency, significantly reducing power waste
- Built-in peak level limiter to reduce the risk of speaker damage from clipping signals, with a clipping indicator light to alert users.
- Embedded thermal level control to ensure the amplifier auto-compresses signals proportionally in extreme high temperatures.
- Comprehensive protection features including soft start, DC, high frequency, overvoltage, undervoltage, overload, short circuit, compression, and overheat protection, with superior EMI performance and surge protection for power input and output
- Global PFC power supply for worldwide use with minimal grid interference and lower grid requirements
- Temperature-sensitive stepless speed regulation cooling system, balancing heat and fan noise under full power output
- External fuse box design for power input with an internal spare fuse, providing equipment protection and ease of maintenance

Technical Specifications

	SAP-5402A35	SAP-5402A50	SAP-5402A70
Power Supply Range:	AC100 ~ 240V 50Hz ~ 60Hz		
Surge Protection:	Power input supports 1KV differential mode, 2KV common mode protection; power output supports 2KV common mode protection		
Standby Power Consumption:	< 5W	< 8W	< 8W
Power Consumption:	1/8 rated power 8Ω (1KHz): 120W 1/3 rated power 8Ω (1KHz): 280W	1/8 rated power 8Ω (1KHz): 180W 1/3 rated power 8Ω (1KHz): 430W	1/8 rated power 8Ω (1KHz): 235W 1/3 rated power 8Ω (1KHz): 540W
Output Power:	350W×2 @8Ω (1) ;700W×2 @4Ω; BTL:700W×1@16Ω (2) BTL:1400W×1@8Ω	500W×2 @8Ω (1) ;1000W×2 @4Ω; BTL:1000W×1@16Ω (2) BTL:1800W×1@8Ω;	700W×2 @8Ω (1) ;1200W×2 @4Ω; BTL:1200W×1@16Ω (2) BTL:2400W×1@8Ω;
Frequency Response:	20Hz-20KHz		
Total Harmonic Distortion:	< 0.05% @1KHz 1/3power output		
Signal-to-Noise Ratio:	> 100dB(A-weighted)		
Input Impedance:	Balanced 20KΩ / Unbalanced 10KΩ		
Input Sensitivity:	0.775Vrms/1.414Vrms		
Maximum Input Level:	3.5Vrms(13dBu)		
Gain:	36.7dB		
Interfaces:	2 line inputs, 2 line outputs, 2 power outputs		
Operating Temperature and Humidity:	0°C-45°C, ≤90%RH(non-condensing))		
Product Dimensions&Weight:	300.5*483*44.5mm; 3.3KG	300.5*483*44.5mm; 3.51KG	300.5*483*44.5mm; 4KG

DUAL-CHANNEL DIGITAL POWER AMPLIFIER

SAP-D2350/SAP-D2500/SAP-D2700/SAP-D2100A/SAP-D2150A



Product Features

- Excellent operational stability with an efficient cooling system
- Transparent, clear, and natural sound quality with low distortion
- High-quality components and materials for superior durability
- Excellent craftsmanship with a professional circuit design and neat layout
- Professional, stylish, and elegant appearance
- High efficiency, high sound quality, compact design
- Utilizes high-quality components and Ground Lift grounding technology
- Features protection against short circuits, no-load conditions, switching, and wireless frequency interference

Technical Specifications

	SAP-D2350	SAP-D2500	SAP-D2700	SAP-D2100A	SAP-D2150A
Number of channels:	2 channel				
Circuit type:	AB class				
Output power:	8Ω: 400W x 2, 4Ω: 600W x 2 Bridge output power 8Ω: 1200W	8Ω: 600W x 2 4Ω: 1000W x 2 Bridge output power 8Ω: 1800W	8Ω: 800W x 2 4Ω: 1200W x 2 Bridge output power 8Ω: 2300W	8Ω: 1000W x 2 4Ω: 1350W x 2 Bridge output power 8Ω: 2700W	8Ω: 1200W x 2 4Ω: 1800W x 2 Bridge output power 8Ω: 3000W
Frequency response:	20-20000Hz (±0.3dB)				
Voltage gain:	31dB	33dB	34dB	36dB	36dB
Input sensitivity:	0db (0.775V rms) 1.0V/26dB				
Conversion rate:	≥10V/us				
Damping factor:	≥200:1				
Channel isolation:	-75dB@1KHz				
Signal-to-noise ratio:	>100dB				
Total harmonic distortion:	<0.5%, (20-20K Hz)				
Intermodulation distortion:	≥ 0.35%				
Input interface:	XLR female connectors * 2				
Output interface:	SpeakON connectors * 2, terminal blocks * 2				
Product dimensions:	483×88×360mm(Width x Height x Depth)				
Net weight:	12.6Kg	13.2Kg	14.5Kg	15.3Kg	20.5Kg
Protection functions:	Fully automatic protection design: short circuit protection, overload protection, overheat protection, DC protection, anti-interference, switch protection, mute, limiter				

POWER AMPLIFIER

SAP-D2160A



Product Features

- Utilizes Class-D audio amplification circuit, powered by a transformer
- Delivers detailed, layered mid and high frequencies, with low distortion and coloration-free sound
- Incorporates a temperature control microcontroller to prevent overheating
- Features a unique protection circuit design, including protection against DC, overheat, overload, and clipping, as well as overvoltage and undervoltage protection for prolonged device use
- Rear panel toggle switch for selecting stereo mode, bridge mode, or parallel mode, providing versatility in operation

Technical Specifications

Stereo Output Power 8Ω:	1600W×2
Stereo Output Power 4Ω:	2850W×2
Bridge Power 8Ω:	4000W
Maximum Output Voltage:	103V
Maximum Output Current:	25A
Input Sensitivity:	0.775V/1V/1.4V
Total Harmonic Distortion at 1kHz and below 1dB clipping:	<0.008 %
Total Harmonic Distortion 20Hz-20kHz at 1W:	<0.05 %
Signal-to-Noise Ratio:	>112 dBA
Signal Channel Separation (Crosstalk) at 1kHz:	>70 dB
Frequency Response Range:	20-20000Hz (±0.3dB)
Damping Factor:	> 400 8Ω
Input Impedance Balanced/Unbalanced:	20 / 10 kohm
Analog Channel I/O:	4×3-pin XLR (Canon), electronically balanced input
Output Connectors:	SpeakON Neutrik(1 x NLT8, combined 2 x NLT4)
Indicators:	Independent LED indicators per channel: VPL, CPL, VHF, Overtemperature, Fault, Mute
Protection Functions:	CAL, VHF, DC, Short Circuit, CLV Protection, Temperature Limiting Protection
Nominal Voltage:	220 Volt AC 50 Hz
Operating Voltage:	190-250V AC
Net Weight:	22.3Kg
Dimensions (W*H*D) :	483*132*385mm
Outer Packaging Dimensions :	550*505*192mm

Line Array Speaker



Product Features

- Solve the problem of traditional conference room speakers being too large and unattractive when wall-mounted.
- Address the projection and interference issues of traditional conference room speakers with constant beam technology in line array column speakers.
- Achieve excellent sound performance for vocal amplification and speech clarity.

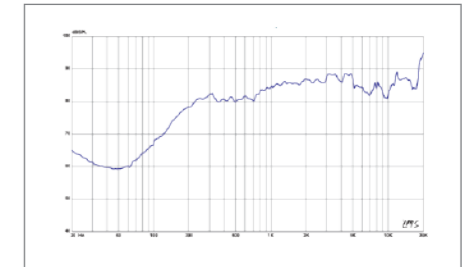
Functional Features

- The line array column speaker features a streamlined design, making it aesthetically pleasing and practical, suitable for various architectural spaces for sound reinforcement with beautiful and melodious sound quality.
- The circular waveguide at the front and the damping port at the rear of the enclosure create a unique low-frequency heart-shaped diffusion, delivering crisp and pleasant high frequencies, natural and rich tone performance, and full bass.
- Equipped with built-in crossover and protection devices.
- Uniform distribution of sound pressure levels, ensuring non-piercing near-field listening and clear far-field listening.
- Low feedback and howling characteristics due to its full-plane wave nature.
- The uncompressed horn design prevents microphone feedback howling.

4-UNIT LINEAR ARRAY COLUMN SPEAKER SAP-L2043H



Frequency response curve



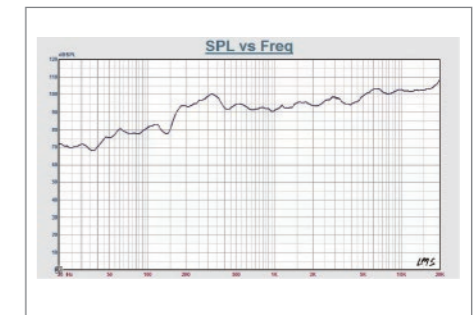
Technical Specifications

Unit	4×3 Inches	Coverage Angle (Horizontal*Vertical)	120°*20°
Frequency Response (Hz)	80-18kHz	Interface	2*Terminal Blocks
Sensitivity (@1W/1m)	96dB	Enclosure Material	ABS Plastic
Power/W (Rated/Continuous/Peak)	120W/240W/480W	Appearance Craftsmanship	Fiberglass
Maximum Sound Pressure Level	116dB	Dimensions (Height*Width*Depth)	530×100×150 mm
Peak Sound Pressure Level	122dB	Net Weight	3.8 Kg
Impedance	8Ω	Bracket	Installation bracket included in the packaging

4-UNIT LINEAR ARRAY COLUMN SPEAKER SAP-L4504H WHITE VERSION (SAP-L4504H-W)



Frequency response curve



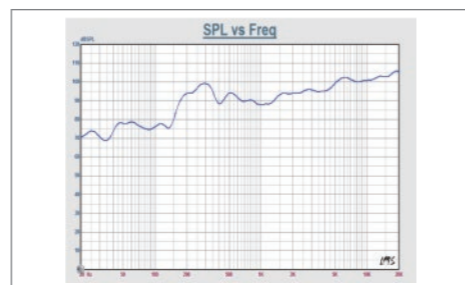
Technical Specifications

Unit:	4*4.5-inch woofers, 1*1.5-inch tweeter	Coverage Angle (Horizontal*Vertical):	110°*130°
Frequency Response (Hz):	100-20KHz	Interface:	2*NL4 Speakon (1+/1-)
Sensitivity (@1W/1m):	98dB	Enclosure Material:	15mm Plywood
Power/W (Rated/Continuous/Peak):	200W/400W/800W	Appearance Craftsmanship:	Spray Coating
Maximum Sound Pressure Level:	122.5dB	Dimensions :	678*146*150mm
Peak Sound Pressure Level:	131dB	Net Weight:	6.2 Kg
Impedance:	8Ω	Bracket:	SAP-L45HZ/SAP-L45HZ-W Wall Mount Bracket

6-UNIT LINEAR ARRAY COLUMN SPEAKER SAP-L4506H WHITE VERSION (SAP-L4506H-W)



Frequency response curve



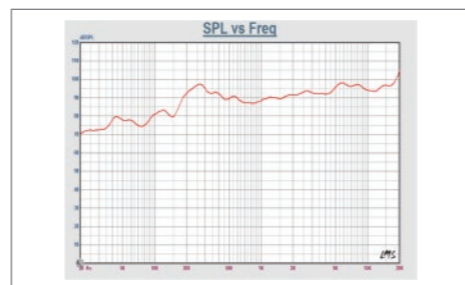
Technical Specifications

Unit:	6*4.5-inch woofers, 1*1.5-inch tweeter	Coverage Angle (Horizontal*Vertical):	110°*130°
Frequency Response (Hz):	100-20KHz	Interface:	2*NL4 Speakon (1+/1-)
Sensitivity (@1W/1m):	99dB	Enclosure Material:	Birch Plywood
Power/W (Rated/Continuous/Peak)	240W/480W/960W	Appearance Craftsmanship:	Spray Coating
Maximum Sound Pressure Level:	123dB	Dimensions (Height*Width*Depth):	858*146*150 mm
Peak Sound Pressure Level:	129dB	Net Weight:	7.9 Kg
Impedance:	6Ω	Accessories:	SAP-L45HZ Wall Mount Bracket

8-UNIT LINEAR ARRAY COLUMN SPEAKER SAP-L4508H WHITE VERSION (SAP-L4508H-W)



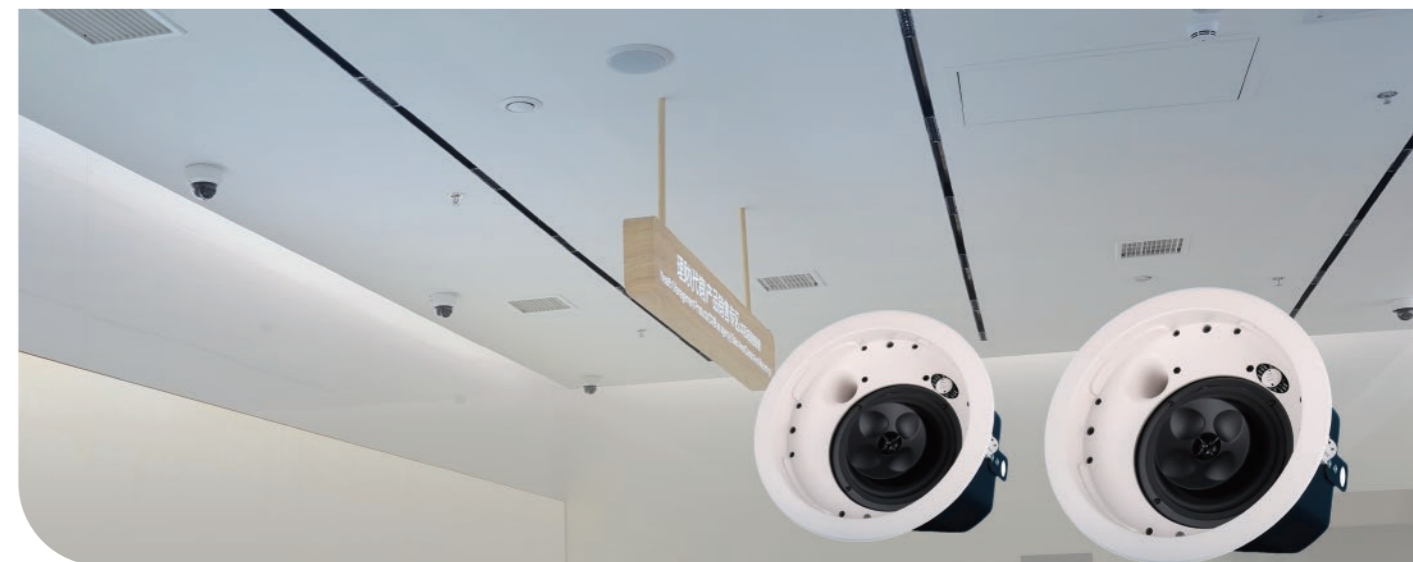
Frequency response curve



Technical Specifications

Unit:	8*4.5-inch woofers, 1*1.5-inch tweeter	Coverage Angle (Horizontal*Vertical):	110°*130°
Frequency Response (Hz):	100-20KHz	Interface:	2*NL4 Speakon (1+/1-)
Sensitivity (@1W/1m):	100dB	Enclosure Material:	15mm Plywood
Power/W (Rated/Continuous/Peak)	300W/600W/1200W	Appearance Craftsmanship:	Spray Coating
Maximum Sound Pressure Level:	124dB	Dimensions (Height*Width*Depth):	1100*146*150mm
Peak Sound Pressure Level:	130dB	Net Weight:	10.5 Kg
Impedance:	4Ω	Bracket:	SAP-L45HZ Wall Mount Installation Bracket

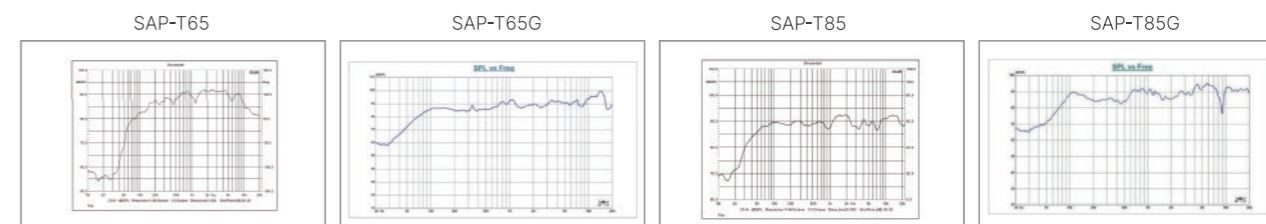
Ceiling Speaker



Functional Features

- 6-inch/8-inch ceiling recessed speakers, offering cost-effective sound expansion solutions.
- Concealed installation ensures a sleek and elegant appearance.
- Equipped with professional NBR rubber rings and coaxial horn tweeters, delivering excellent mid-to-low frequency richness, smooth and emotionally rich mid-to-high frequency lines, and penetrating high-frequency detail.
- Adjustable constant pressure and constant resistance to meet various sound expansion needs.
- Multiple versions available to accommodate different usage scenarios:
 - with steel back cover (suffix G), providing high-fidelity sound quality and fire resistance;
 - without steel back cover, suitable for installations with limited ceiling space.

Frequency response curve



SIX-INCH TWO-WAY CEILING-MOUNTED SPEAKER

SAP-T65



Low-frequency driver	6-inch paper cone woofer	Impedance	8Ω
High-frequency driver	0.75-inch silk dome tweeter	Coverage Angle (Horizontal*Vertical)	120° Conical
Frequency Response (Hz)	60~20kHz	Interface	2*Terminal Post
Sensitivity (@1W/1m)	88dB	Enclosure Material	ABS Plastic
Continuous Power Handling	30W	Dimensions (Outer Diameter*Depth)	237*98 mm
Continuous Pressure Handling	/	Ceiling Cutout Diameter	210 mm
Maximum Sound Pressure Level	102dB	Minimum Ceiling Height	100 mm
Peak Sound Pressure Level	105dB	Net Weight	1.49 Kg

EIGHT-INCH TWO-WAY CEILING-MOUNTED SPEAKER

SAP-T85



Low-frequency driver	8-inch paper cone woofer	Impedance	8Ω
High-frequency driver	0.75-inch silk dome tweeter	Coverage Angle	110°Conical(Horizontal*Vertical)
Frequency Response (Hz)	60~20kHz	Interface	2*Terminal Post
Sensitivity (@1W/1m)	88dB	Enclosure Material	ABS Plastic
Continuous Power Handling	30W	Dimensions	297*127 mm(Outer Diameter*Depth)
Continuous Pressure Handling	/	Ceiling Cutout Diameter	260 mm
Maximum Sound Pressure Level	102dB	Minimum Ceiling Height	130 mm
Peak Sound Pressure Level	105dB	Net Weight	2.5 Kg

SIX-INCH TWO-WAY HIGH-FIDELITY COAXIAL CEILING-MOUNTED SPEAKER

SAP-T65G



Low-frequency driver	6.5-inch coaxial	Impedance	16Ω
High-frequency driver	1-inch titanium dome tweeter	Coverage Angle	120°Conical (Horizontal*Vertical)
Frequency Response (Hz)	50~20kHz	Interface	4-core Phoenix connector
Sensitivity (@1W/1m)	90dB	Enclosure Material	ABS plastic+titanium steel rear shell
Continuous Power Handling	50W	Dimensions	264*243 mm(Outer Diameter*Depth)
Continuous Pressure Handling	6.25W/12.5W/25W/50W	Ceiling Cutout Diameter	225-242 mm
Maximum Sound Pressure Level	107dB	Minimum Ceiling Height	270 mm
Peak Sound Pressure Level	113dB	Net Weight	4.2 Kg

EIGHT-INCH TWO-WAY HIGH-FIDELITY COAXIAL CEILING-MOUNTED SPEAKER

SAP-T85G



Low-frequency driver	8-inch woofer with coaxial tweeter	Impedance	8Ω
High-frequency driver	1-inch titanium dome tweeter	Coverage Angle	120°Conical (Horizontal*Vertical)
Frequency Response (Hz)	50~20kHz	Interface	4-core Phoenix connector
Sensitivity (@1W/1m)	91dB	Enclosure Material	ABS plastic + titanium steel rear shell
Continuous Power Handling	80W	Dimensions	320*248 mm
Continuous Pressure Handling	5W/10W/20W/40W/80W	Ceiling Cutout Diameter	298mm
Maximum Sound Pressure Level	110dB	Minimum Ceiling Height	250 mm
Peak Sound Pressure Level	116dB	Net Weight	5.1 Kg

Q Series Point Source Loudspeaker



Product Features

- Optimized crossover and pre-phase inversion hole design for smooth frequency response and accurate phase imaging.
- Multiple hanging points on the enclosure allow for both horizontal and vertical suspension, offering flexibility and convenience.
- Rotatable high polymer acrylic material for the high-frequency horn, providing clear and transparent sound.
- High-strength steel mesh with acoustic transparent sponge inside to prevent damage to speaker units from dust and water droplets.
- The bottom is equipped with support rod sockets, allowing for the subwoofers to form a compact system.
- Customizable waterproof version available.

Application Scenarios

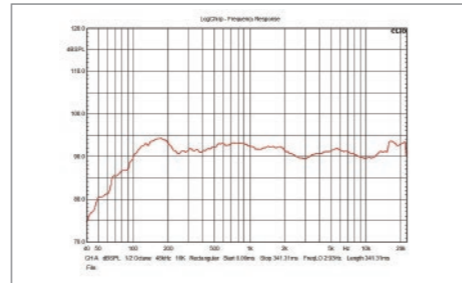
- Conference halls, multi-purpose venues, command centers, classrooms, banquet halls, upscale clubs, and mobile performances in KTVs.



SINGLE 8-INCH FULL-RANGE SPEAKER SAP-Q8



Frequency Response Curve



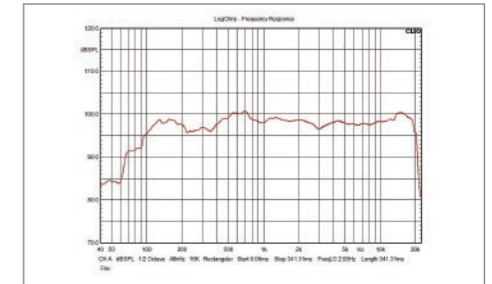
Technical Specifications

Woofers	1x8 inch	Coverage Angle	90° * 50°(Horizontal * Vertical):
Tweeter	1x1.34" horn, rotatable 90°	Connectors:	2 * NL4 Speakon (1+/1-)
Frequency Response (Hz)	93Hz-20kHz	Cabinet Material:	High-density MDF
Sensitivity (@1W/1m)	95dB	Finish:	Durable, eco-friendly, water-based flame-retardant paint
Power (W) (Rated/Continuous/Peak)	150W/300W/600W	Dimensions (H*W*D):	407 * 255 * 260 mm
Maximum SPL	116 dB	Net Weight:	10.75 kg
Peak SPL	122 dB	Installation Method:	19 M8 screw suspension points, bottom mount for stand
Impedance	8Ω	Accessories:	SAP-QZ wall mount bracket

SINGLE 12-INCH FULL-RANGE SPEAKER SAP-Q12 WATERPROOF MODEL (SAP-Q12-FS)



Frequency Response Curve



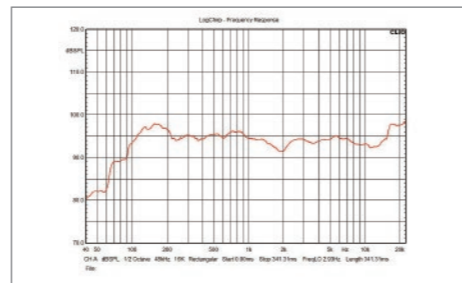
Technical Specifications

Woofers	1 x 12inch	Coverage Angle	80° * 50° (Horizontal * Vertical):
Tweeter	1x1.75" horn, rotatable 90°	Connectors:	2 * NL4 Speakon (1+/1-)
Frequency Response (Hz)	68Hz-20kHz	Cabinet Material:	High-density MDF
Sensitivity (@1W/1m)	97dB	Finish:	Durable, eco-friendly, water-based flame-retardant paint
Power (W) (Rated/Continuous/Peak)	400W/800W/1600W	Dimensions (H * W * D):	560 * 355 * 360 mm
Maximum SPL	123 dB	Net Weight:	19.6 kg
Peak SPL	129 dB	Installation Method:	19 M8 screw suspension points, bottom mount for stand
Impedance	8Ω	Accessories:	SAP-QZ wall mount bracket

SINGLE 10-INCH FULL-RANGE SPEAKER SAP-Q10 WATERPROOF MODEL (SAP-Q10-FS)



Frequency Response Curve



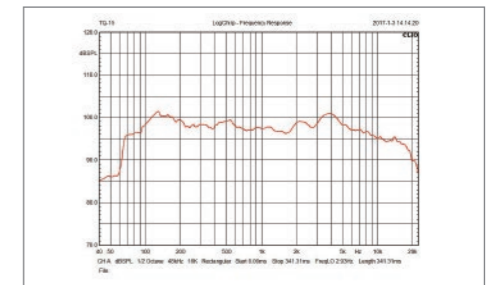
Technical Specifications

Woofers:	1 x 10 inch	Coverage Angle	90° * 50°(Horizontal * Vertical):
Tweeter:	1x1.75" horn, rotatable 90°	Connectors:	2 * NL4 Speakon (1+/1-)
Frequency Response (Hz):	77Hz-20kHz	Cabinet Material:	High-density MDF
Sensitivity (@1W/1m):	96dB	Finish:	Durable, eco-friendly, water-based flame-retardant paint
Power (W) (Rated/Continuous/Peak) :	300W/600W/1200W	Dimensions (H*W*D):	500 * 310 * 310 mm
Maximum SPL:	120 dB	Net Weight:	15.5 kg
Peak SPL:	126 dB	Installation Method:	19 M8 screw suspension points, bottom mount for stand
Impedance:	8Ω	Accessories:	SAP-QZ wall mount bracket

SINGLE 15-INCH FULL-RANGE SPEAKER SAP-Q15 Waterproof Model (SAP-Q15-FS)



Frequency Response Curve



Technical Specifications

Woofers:	1 x 15 inch	Coverage Angle	100° * 70°(Horizontal * Vertical):
Tweeter:	1x1.75" horn, rotatable 90°	Connectors:	2 * NL8 Speakon (1+/1-)
Frequency Response (Hz):	66Hz-19kHz	Cabinet Material:	High-density MDF
Sensitivity (@1W/1m):	98dB	Finish:	Durable, eco-friendly, water-based flame-retardant paint
Power (W) (Rated/Continuous/Peak):	450W/900W/1800W	Dimensions (H * W * D):	575 * 833 * 700 mm
Maximum SPL:	124 dB	Net Weight:	30.3 kg
Peak SPL:	130dB	Installation Method:	19 M8 screw suspension points, bottom mount for stand
Impedance:	8Ω	Accessories:	SAP-QZ wall mount bracket

T Series Point Source Speaker



Product Features

- Multi-functional high-power full-range speaker system, available in various specifications to meet different usage requirements.
- Efficient and durable speaker units with horn-type high-frequency design to meet high coverage angle needs.
- Multiple hanging points on the enclosure for versatile vertical or horizontal installation.
- Bottom of the enclosure equipped with support pole socket for pairing with subwoofers to create compact systems.

Application Scenarios

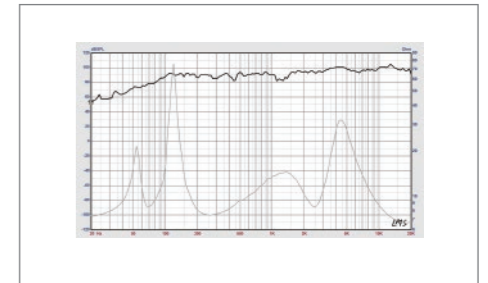
- Conference halls, multipurpose venues, command centers, classrooms, banquet halls



SINGLE 6.5-INCH FULL-RANGE SPEAKER SAP-TC65D



Frequency Response Curve



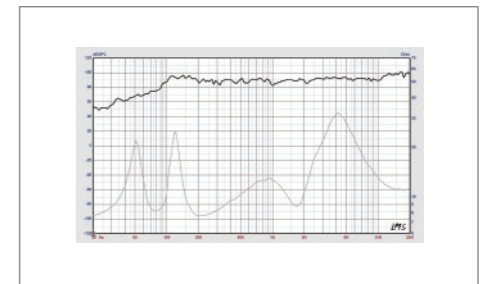
Technical Specifications

Woofer	1×6.5 inch	Coverage Angle	80°*50° (Horizontal*Vertical)
Tweeter	1×1寸	Interface:	2*NL4 Speakon (1+/1-)
Frequency Response (Hz)	80Hz-20kHz	Enclosure Material:	15mm Medium Density Fiberboard (MDF)
Sensitivity (@1W/1m)	96dB	Exterior Craftsmanship:	Black Point Paint
Power (W) (Rated/Continuous/Peak)	120W/240W/480W	Dimensions:	230*375*232 mm(Height*Width*Depth)
Maximum SPL	116 dB	Net Weight:	8 Kg
Peak SPL	122 dB	Installation Method:	Wall Mount
Impedance	8Ω	Accessories:	Built-in Wall Mounting Bracket

8-INCH FULL-RANGE SPEAKER SAP-T8



Frequency Response Curve



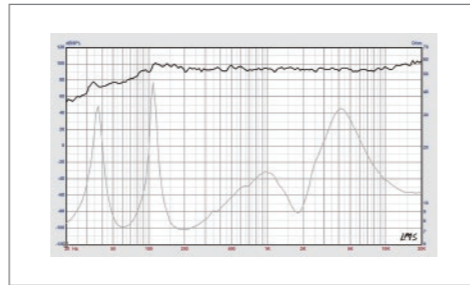
Technical Specifications

Woofer:	1×8 inch	Coverage Angle	80°*50°(Horizontal * Vertical)
Tweeter:	1×1.3 inch	Interface:	2*NL4 Speakon (1+/1-)
Frequency Response (Hz):	75Hz-20kHz	Enclosure Material:	15mm Medium-Density Fiberboard (MDF)
Sensitivity (@1W/1m):	96dB	Exterior Craftsmanship:	Black Dot Paint
Power (W) (Rated/Continuous/Peak):	150W/300W/600W	Dimensions :	442*253*263 mm(Height * Width * Depth)
Maximum SPL:	117 dB	Net Weight:	9.5 Kg
Peak SPL:	123 dB	Installation Method:	12 M8 Screw Hanging Holes, Bottom Bracket Holes
Impedance:	8Ω	Accessories:	SAP-TZ

SINGLE 10-INCH FULL-RANGE SPEAKER
SAP-T10 WATERPROOF MODEL (SAP-T10-FS)



Frequency Response Curve



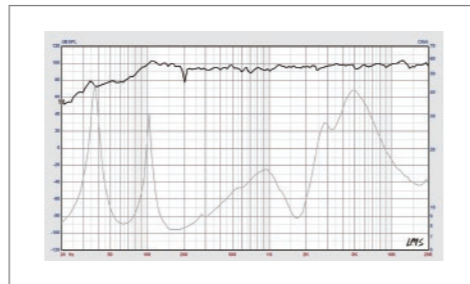
Technical Specifications

Woofers	1 × 10 inch	Coverage Angle	80°*50° (Horizontal*Vertical):
Tweeter	1×1.3 inch	Interface:	2*NL4 Speakon (1+/1-)
Frequency Response (Hz)	65Hz-20kHz	Enclosure Material:	15mm Medium Density Fiberboard (MDF)
Sensitivity (@1W/1m)	96dB	Appearance Craftsmanship:	Black Point Paint
Power (W) (Rated/Continuous/Peak)	300W/600W/1200W	Dimensions	500*310*310 mm(Height*Width*Depth)
Maximum SPL	120 dB	Net Weight:	15.5 Kg
Peak SPL	126 dB	Installation Method:	12 M8 Screw Suspension Holes, Bottom Bracket Holes
Impedance	8Ω	Accessories:	SAP-TZ

SINGLE 12-INCH FULL-RANGE SPEAKER
SAP-T12 WATERPROOF MODEL (SAP-T12-FS)



Frequency Response Curve



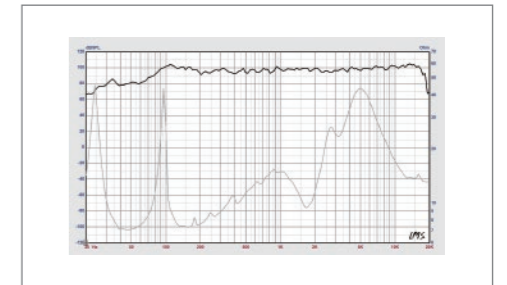
Technical Specifications

Woofers:	1 × 12 inch	Coverage Angle	80°*50°(Horizontal*Vertical):
Tweeter:	1 × 1.3 inch	Interface:	2*NL4 Speakon (1+/1-)
Frequency Response (Hz):	45Hz-20kHz	Enclosure Material:	18mm Medium Density Fiberboard (MDF)
Sensitivity (@1W/1m):	97dB	Exterior Craftsmanship:	Black Point Paint
Power (W) (Rated/Continuous/Peak):	400W/800W/1600W	Dimensions:	620*399*365 mm(Height*Width*Depth)
Maximum SPL :	123 dB	Net Weight:	19 Kg
Peak SPL:	129 dB	Installation Method:	12 M8 Screw Suspension Holes, Bottom Bracket Holes
Impedance:	8Ω	Accessories:	SAP-TZ

SINGLE 15-INCH FULL-RANGE SPEAKER
SAP-T15 WATERPROOF MODEL (SAP-T15-FS)



Frequency Response Curve



Technical Specifications

Low-frequency driver:	1 × 15-inch
High-frequency driver:	1 × 1.75-inch
Frequency response:	38Hz-19kHz
Sensitivity:	98dB @ 1W/1m
Power:	450W/900W/1800W (Rated/Continuous/Peak)
Maximum sound pressure level:	124dB
Peak sound pressure level:	130dB
Impedance:	8Ω
Coverage angle:	80°*50° (Horizontal*Vertical)
Interface:	2*NL8 Speakon (1+/1-)
Enclosure material:	18mm Medium-Density Fiberboard (MDF)
Finish:	Wear-resistant environmentally friendly water-based flame retardant paint
Dimensions:	710*488*445 mm (Height*Width*Depth)
Net weight:	25 Kg
Mounting method:	12 M8 screw mounting holes for suspension, bottom bracket hole
Accessories:	SAP-TZ