

# PRODUCT CATALOGUE

SECURITY | TRANSPORT | INDUSTRY | COMMERCE | EDUCATION | HEALTH CARE

SPON

PRODUCT CATALOGUE

202305



VOICE PAGING



CONFERENCE SYSTEM



IP INTERCOM SYSTEM



SURVEILLANCE MICROPHONE



SPON Communications Co., Ltd.

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Version 202305





## COMPANY PROFILE

SPON Communications, founded in 2004, is a leading audio technology company with almost 20 years of experience in developing, designing, and manufacturing high-quality IP audio terminals. Our dedicated R&D center, staffed by over 150 experts, drives our innovation and allows us to provide powerful customization services to meet our customers' unique needs. Through our relentless pursuit of cutting-edge technology and continuous improvement, we strive to stay at the forefront of the industry and provide the best possible solutions to our customers.

### THE BEST REMARKABLE GROWTH IN RECENT YEARS:

- Honored with "High-tech Enterprises Recognized" in Aug 2012
- Included in the "National High-tech District pioneer list" in 2014
- Ranked top 10 security brands in China 2017

### SPON CORE PRODUCTS:

- XCoIP Network Audio Technology Platform
- IP Intercom System
- IP Public Address System
- Digital Conference System
- Professional Sound Reinforcement System
- Digital Surveillance Microphone

## CATALOGUE



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## SPON OFFICE BUILDING



Company Building



Reception



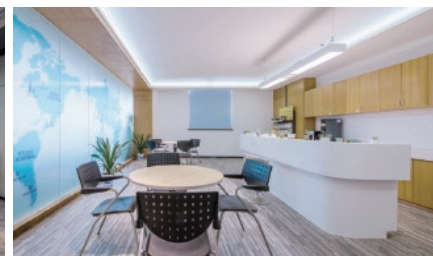
Showroom



Office Area



Conference Room



Lounge Area

## SPON DUST-FREE WORKSHOP



SMT Workshop



Assembly Workshop



Testing Laboratory



Warehouse



Anechoic Chamber



QC Department

## SPON GLOBAL MARKETING



China Public Security Expo



CeBIT Expo



Prolight+Sound Expo

## OUR ADVANTAGES

Founded in 2004, SPON is one of the top IP PA system and IP intercom system manufacturers in China. With 19 years' experience in the IP network audio technology industry, we've gained the biggest market share in multiple different application fields in the domestic & overseas market, including finance, transportation, education and security & protection fields.

### SPON MAIN STRENGTHS:

- 19 years' experience in the IP network audio technology industry;
- 35,000 square meters industrial park;
- 500+ staffs in total and a strong R&D team with more than 130 technicians and engineers;
- CE, CCC and ISO9001 & ISO14001 certified enterprise, with more than 50 patents for our core products;
- Industry-leading SMT automatic production lines, rigorous high-temperature aging & vibration testing before delivery.

## SPON INDUSTRIAL PARK

SPON Industrial Park covers a total construction area of 57,000 square meters. The first phase of more than 20,000 square meters has been put into use in 2017.

The manufacturing R&D complex will be completed in early 2023. After completion of the project, it will become the leading product development and production with audio as the core in China.

Production, sales and service in one of the headquarters innovation intelligent base.





SPON CERTIFICATION



ISO9001



ISO14001



ISO20000



ISO27001



ISO45001



CE Certificate

PROJECT CASES

SCHOOL



Holy Quran Society School  
(Saudi Arabia)



Liwa New Residential Area School  
(Oman)



Amity International School  
(Oman)



Nursery School Parcheminerie  
(France)



Association of Early Intervention for  
Children with Disability (Oman)



Salah Vocational College  
(Oman)



International Indian School Dammam  
(Saudi Arabia)



One World International School  
(Saudi Arabia)



Maarif Schools Baghdad  
(Iraq)



Tzu Chi International School  
(Malaysia)



Singapore Korean International School  
(Singapore)



Menzi Primary School  
(South Africa)



## PROJECT CASES

### PRISON



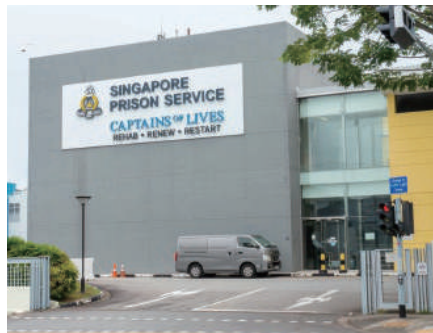
Darussalam Prison  
(Brunei)



Al Awir Central Prison  
(UAE)



New Bilibid Prison  
(the Philippines)



Changi Prison Complex  
(Singapore)



Sremska Mitrovica Prison  
(Serbia)



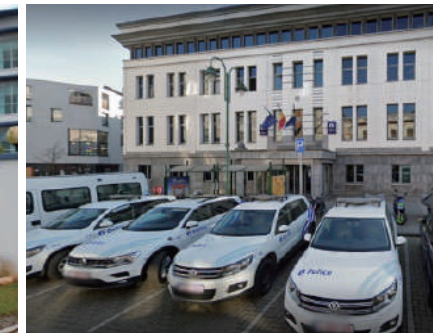
Dob pri Mirni Prison  
(Slovenija)

## PROJECT CASES

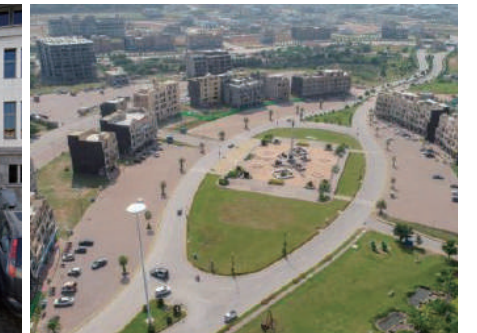
### SAFE CITY



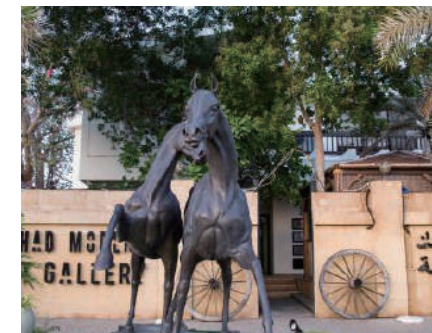
Kompleks Kemudahan PDRM  
(Malaysia)



Politiezone Brussel-West  
(Belgium)



Bahria Enclave Islamabad  
(Pakistan)



Etihad Modern Art Gallery  
(UAE)



King Salman Park  
(Saudi Arabia)



Port of Guayaquil  
(Ecuador)

### FACTORY



Pakistan Cables Nooriabad Factory  
(Pakistan)



Oruçoğlu Yağ Sanayi  
(Turkey)



RAK Ceramics Factory  
(Bangladesh)



Abul Kalam Spinning Mill  
(Bangladesh)



AMANN Group Textile Factory  
(Bangladesh)



Akij Plastics Chhatak Plant  
(Bangladesh)

### EXPRESSWAY



Khobar-Dammam-Dhahran Expressway  
- Highway 613 (Saudi Arabia)



Jeddah - Makkah Expressway  
(Saudi Arabia)



Islamabad-Murree-Muzaffarabad  
Expressway - E75 Expressway (Pakistan)



Al Khor Expressway  
(Qatar)



Autoroute du Soleil - A7  
(France)



A4 Motorway (Matosinhos - Amarante)  
(Portugal)



## PROJECT CASES

### HOSPITAL



Centro Hospitalar Universitário  
(Portugal)



Jinnah Hospital  
(Pakistan)



King Fahad Medical City  
(Saudi Arabia)



Royale Hayat Hospital  
(Kuwait)



Santa Maria Nuova Hospital  
(Italy)

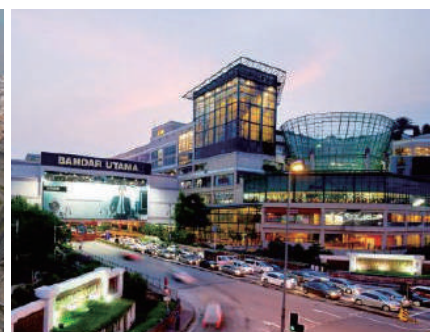


Hospital De Montereau  
(France)

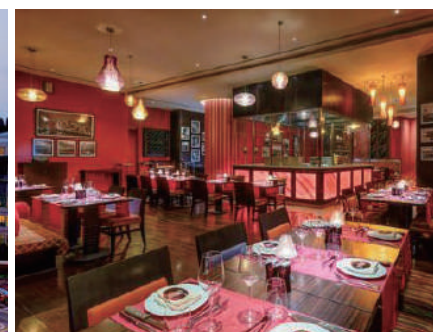
### COMMERCIAL BUILDING



King Abdullah Financial District  
(Saudi Arabia)



Selangor Darul Ehsan Shopping Center  
(Malaysia)



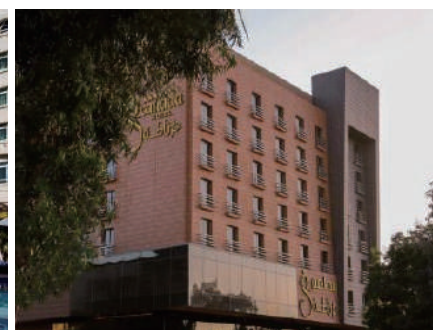
Rodizio Brazilian Churrascaria  
(Qatar)



Al Sahafah Hotel  
(Saudi Arabia)



Radisson Blu Hotel Muscat  
(Oman)



Al Najaf Hotel  
(Iraq)

## SYSTEM OVERVIEW

With the application of the advanced IP Audio™ technology, SPON IP network intercom system, a hands-free intercom system to transmit the pure digital data, send the audio signal data package via LAN and WAN, solve the traditional limitation on the transmission distance and the problem of being vulnerable to interference. With its simple structure, the system will convert to be a powerful transmission of digital system once the IP terminals connected to the Ethernet. No need separate wiring for every access point. SPON IP network intercom system is actually the epitome of computer network, digital video monitoring and intercom system.

The Internet bandwidth is increasing rapidly with the times development, the video call requirements are increasing gradually by people, SPON provide new series of video intercom terminals to achieve the effect of face to face communication, they are also compatible with standard SIP protocol, and it can be connected to VOIP telephone system which opened a new chapter.

SPON IP network intercom system has been used across fields such as the industries (iron and steel, electricity and petrochemical industry), the transportation, the prison and the financial industry, especially suitable for the working places which require a high standard of function and reliability on the communication. In order to meet variously customized demands, SPON has been engaging in developing versatile systems with diversified functions in different working environments such as the ordinary indoor and outdoor circumstances, the formidable industrial environment and some other special kinds.

### Why Choose SPON System?

- With a smooth and clear sound effect with the ability to resist the external electromagnetic wave; the occupied rate of the bandwidth can be as low as 34kpbs only; the intercom transmission delay in LAN can be  $\leq 30\text{ms}$ ;
- With an unlimited transmission distance; the intercom and multi conversations will be realized as long as the network is available, constructing a broader communication system;
- With the digital audio processing technology; the audio bandwidth is 7kHz with echo-cancellation and anti-noise function where full-duplex, multi-conversation and partition broadcasting can be realized;
- With an encrypted call by encryption processing through a coding format, enabling to avoiding eavesdropping;
- Facile to expand the communication system by means of adding terminals;
- With the simultaneous roles of alarming and PA system at any time (compatible with SPON IP network PA system products).



Highway toll station



Hotel



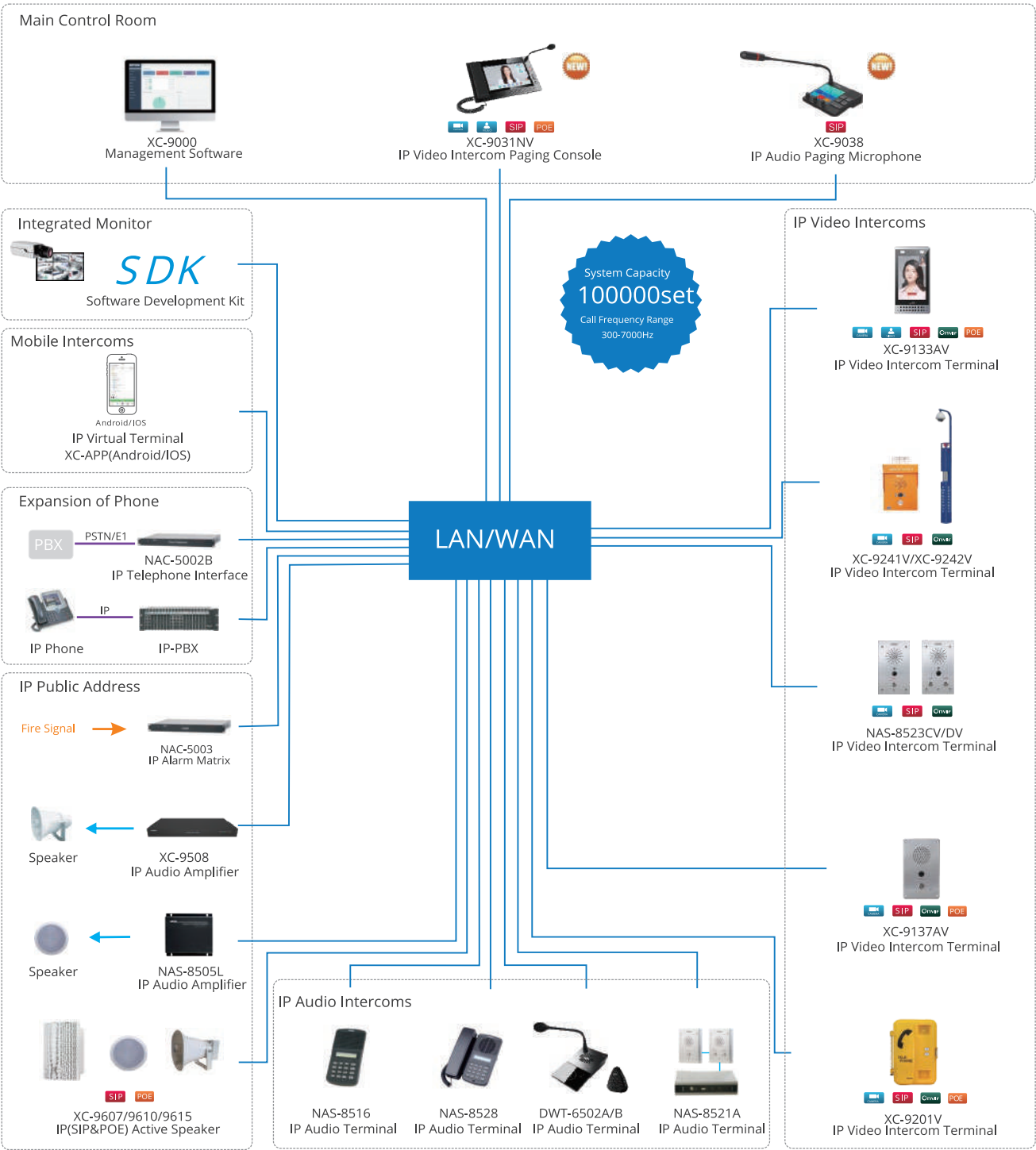
Stage monitor



Industrial enterprise



SYSTEM DIAGRAM



All intercom terminals designed for the parallel structure, there is no host/ext difference. Terminal in the LAN and WAN in use, and supports automatic access to IP addresses.

Practical functions			
Hands-free talk	Simple&SIP call	Auto response	Area broadcast
Monitor	Video Intercom	Door control	Busy transfer
Forcibly inserted	Alarm button	Digital record	External

SYSTEM FUNCTION

Function	Introduction	
Intercom /Call	Hands-free call	Hands-free call, a mode of full-duplex with the function of noise cancellation.
	PTT call	A half-duplex whose working method is similar to the walkie-talkie in the way of pushing to talk and releasing to listen; commonly used in the noisy place.
	Video call	Supportive of one-way or two-way video call.
Multiparty calls	Conference mode	Supportive of fifteen terminals at most at any one time (full-duplex, hands-free); the conference will be interrupted by a superior intercom calling and will continue again when the interruption is over.
	Command mode	Supportive of thirty terminals at most at any one time(full-duplex, hands-free), the command will be interrupted by a superior intercom calling and will continue again when the interruption is over.
Call	Single key call	A quick call to a target terminal; every terminal can set an independent target.
	Number keys call	Through numerical keys to randomly call any terminals.
	Group call	The system automatically calls a group of terminals as has been set. If any of the terminal responses, the call to the rest terminals will be terminated.
	Call ringtone	With such tones of "call through", "call busy" and "hang up" can be set up( only supportive by the terminals carrying a SD card).
	Caller ID Display	To display the callers's ID and review the missed calls and incoming calls; both in Chinese and English.
	Caller voice broadcast	To automatically broadcast the caller's voice through a built-in speaker.
Call answer	Auto answer	The automatic call can be set on the terminal at 1 time after the ring.
	Manual answer	The ring continues on the terminal until there is a manual answer.
	Agent answer	If a terminal that is being called is in a group, any other terminals in the group can answer the same call.
Call transfer	Busy line transfer	The call can be automatically transferred to another terminal if the target line is busy.
	Power-off Transfer	If the target is powered off or out of connection, the call will be automatically transferred.
	No-response transfer	If the call has not been answered in a specified times of ringtone, it will be automatically transferred.
	Time period transfer	The call will be transferred to another terminal in a designated period of time.
	Manual transfer	Half-way call will be terminated after being manually transferred to another terminal.
Call priority	Call-inserted	A priority can be set on the terminals and a higher priority user can insert user's call of a lower priority.
	Call waiting	If the terminal is busy with another user of the same priority level, the call will be answered after waiting in line within 30 seconds.
	Breakdown call	The administrator can abruptly break down an ongoing call,16 levels of priorities can be set.



SYSTEM FUNCTION

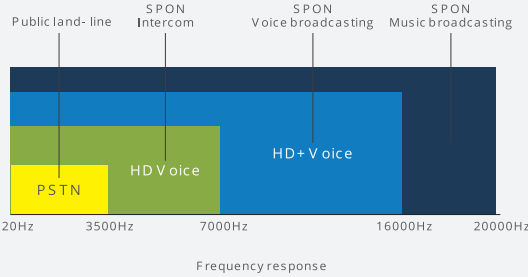
Function	Introduction	
Zone broadcasting	Voice broadcasting	To broadcast to all of part of zones via IP network paging microphone.
	BGM	To broadcast MP3 or WAV format music files to speakers, real-time/ schedule time/ triggering broadcasting are available.
	TTS	With the function of converting text to speech and broadcasting to the IP terminals, real-time/ schedule time/ triggering broadcasting are available.
Monitoring	Environment monitoring	The ambient sound around IP terminal which is in the scope of the authorization can be monitored in the main control room.
	Communication monitoring	The communication between IP terminals which are in the scope of the authorization can be monitored in the main control room.
Digital record		The system can automatically record the data of interco.
Alarm	Trigger alarm	The terminal with an alarm input port for connecting external emergency button or infrared probe to trigger an alarm.
	Sound alarm	The terminal will automatically deliver alarm to the server software in the control center if it detects a screaming or a tumult.
	Tamper alarm	The IP terminal will alert automatically the server software in the control center when its panel is being removed (Note: Some models of IP terminals).
	Alarm treatment measures	The on-duty person confirms the alarm and adopts corresponding measures(e.g.,To initiate preseted broadcasting,multiparty calls,SMS,alarm out) according to the on-site video which pops up automatically.
External control		
Extension Interface	Integration with wireless intercom	Through the linkage between the wireless intercom base station of the IP network and the 400/350M wireless intercom system, the users of the wired phone are free to join in the wireless users' group and make a half-duplex(PTT mode) talk to them.
	Integration with various phone	1. Integrated with the fixed telephone: Connect with the SPC telephone exchange, enabling to initiate an intercom (with voice prompts). The fixed telephone can also broadcast to the intercom system (including the partitions and the entire area).  2. Integrated with the VOIP telephone: Available to make intercom with the VOIP system and compatible with the VOIP system whose mainstream is based on the SIP protocol.
	Integration with fire/PA system	To be comprehensively compatible with SPON IP PA system with the function of timing and live broadcast. To broadcast through the PA system with the pre-programming information according to the alarms from the firefighting center.
	Integration with video conference	To interface with video conferencing MCU, Available for joining in multi-party video conferencing via IP video console.
	Linked monitoring system	To provide SDK for second development and the monitoring system will control the talk switch or the monitoring pictures will switch automatically when talking.
Scale Application	Cluster server( for the large scale use)	To adopt multi servers to manage terminals to reduce the risk of the malfunction of the network; serving for the interprovincial applications over a large scale where as much as 100000pcs terminals is used at one time ( a cluster of 100 pieces of servers with 1000 pieces of terminals loaded on each server).
	Single server (of medium scale)	To manage all the terminals and support the hot-backup of the main server; its application scale is up to 1000 pieces of terminals.
	Without server (of small scale)	Be independent from the running of the server to make the basic communication; to assist some independent zone to take emergency measures when its connection to the server breaks down; Its application scale is up to 100 pieces of terminals.

TECHNOLOGY INTRODUCTION

HD voice

With over two times sampling rate than VoIP phones to restore high-fidelity voice which makes you feel as if face-to-face communication experience to achieve a natural conversation even if there are thousands of miles away;

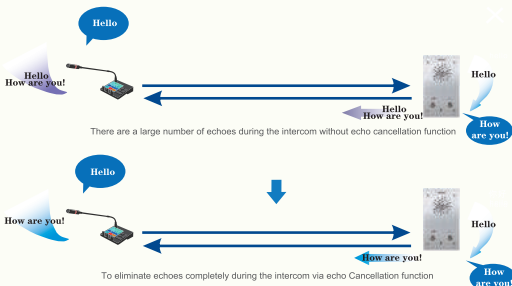
More reasonable network bandwidth allocation: With 7kHz frequency response for SPON intercom to transmit two-way clear voice, With 16kHz frequency response for voice broadcasting to collect the whole sound spectrum of human beings, With 20KHz frequency response for playing music(Corresponding amplifier and speaker have to be added).



Echo cancellation

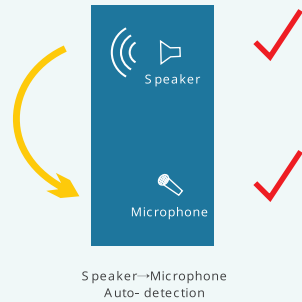
Echo cancellation technology is to avoid sound which comes out from the terminal speaker to go inside its microphone again to discomfort talker or make terminal howls during wo-way conversation;

The principle is to separate the local signal from the far-end echo and offset it completely, The technology can realize hands-free talking on both sides without affecting the voice quality; At the same time it can inhibit the influence of ambient noise to improve voice clarity for harsh conditions of voice communications.



Intelligent detection

Ensures the availability of IP intercom terminals while reducing the need for manual verification of its functionality via speaker -> microphone automatic detection which reflects especially the efficiency of intelligent detection function in the situation of widely distributed area of IP intercom terminals and difficult maintenance.



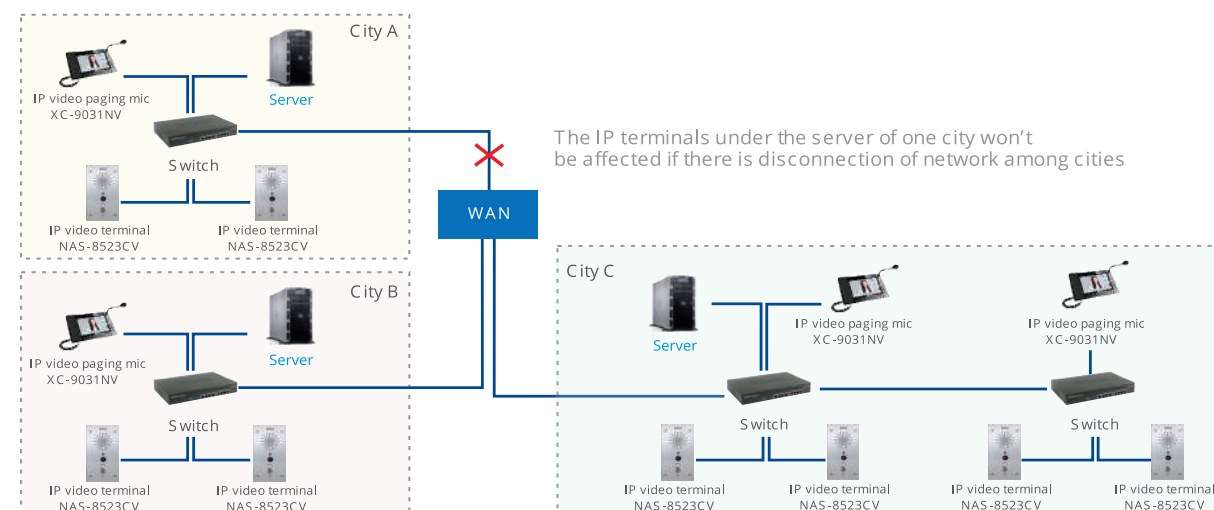


## SYSTEM APPLICATION SCALE

### Large scale

Using the multiple servers to manage terminals to share the data traffic and reduce the abnormal network risk. It's suitable for the large scale application which crosses different cities. It supports broadcasting and talking across different servers. Eg: Set the server at each city of province, it won't affect the city local communication when the interurban network is abnormal.

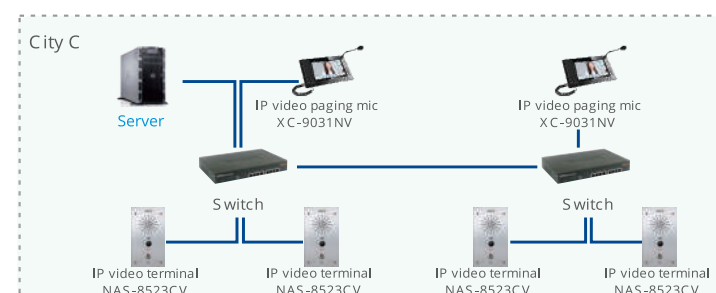
The system can connect up to 100000 IP terminals (It supports 100 servers, each server can load 1000 IP terminals).



### Medium scale

Using a single server to manage all IP terminals, it's suitable for not too many IP terminals and without cross-region application. It also supports hot switching between main server and standby server.

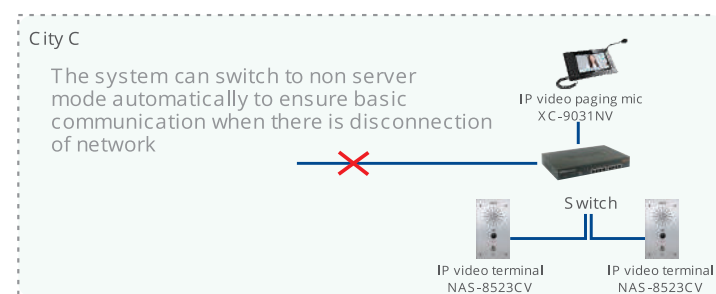
They system can connect up to 1000 IP terminals (one server can load 1000 IP terminals).



### Small scale

The system can realize the basic communication without server, It's suitable for simple function request, or the independent zone terminal emergency measure when the server network disconnect.

They system can connect up to 100 IP terminals.



⚠ Notice: Distributed server, single server and non-server modes can be integrated use to meet the best system reliability.

## THE DIFFERENCES BETWEEN THE IP INTERCOM AND THE TELEPHONE

### Simple & Fast Call

Intercom: Call → Only ring once → Conversation

Telephone: Pick up the handset → Dial-up → Ring → Pick up handset at the other side → Conversation

### High-quality & High definition

Intercom: Frequency response range is 7 kHz, available for hands-free call in a noisy place, the broadcasting frequency range can be up to 16 kHz

Telephone: Frequency response range is 3.4 kHz

### Call

Intercom: With single-key dial up, priority control, automatic call response

Telephone: None

### Broadcast & Monitor

Intercom: Available for a single terminal broadcasting, partitions and the entire areas broadcasting

Telephone: None

### External & Interfaces

Intercom: With audio output and the input connected with the alarm button, which can control the door lock & the alarm light

Telephone: None

### Suitable for Various Industries

Intercom: To provide special functions for the finance industry, the industry and the judicial branch field etc

Telephone: None

### Secondary Development

Intercom: To provide the Software Development Kit, be integrated into the monitoring system platform

Telephone: None

### Log File Output

Intercom: To write down all the data of the calls, the conversations and the alarms and then save them in the hard disk

Telephone: None

### Safety

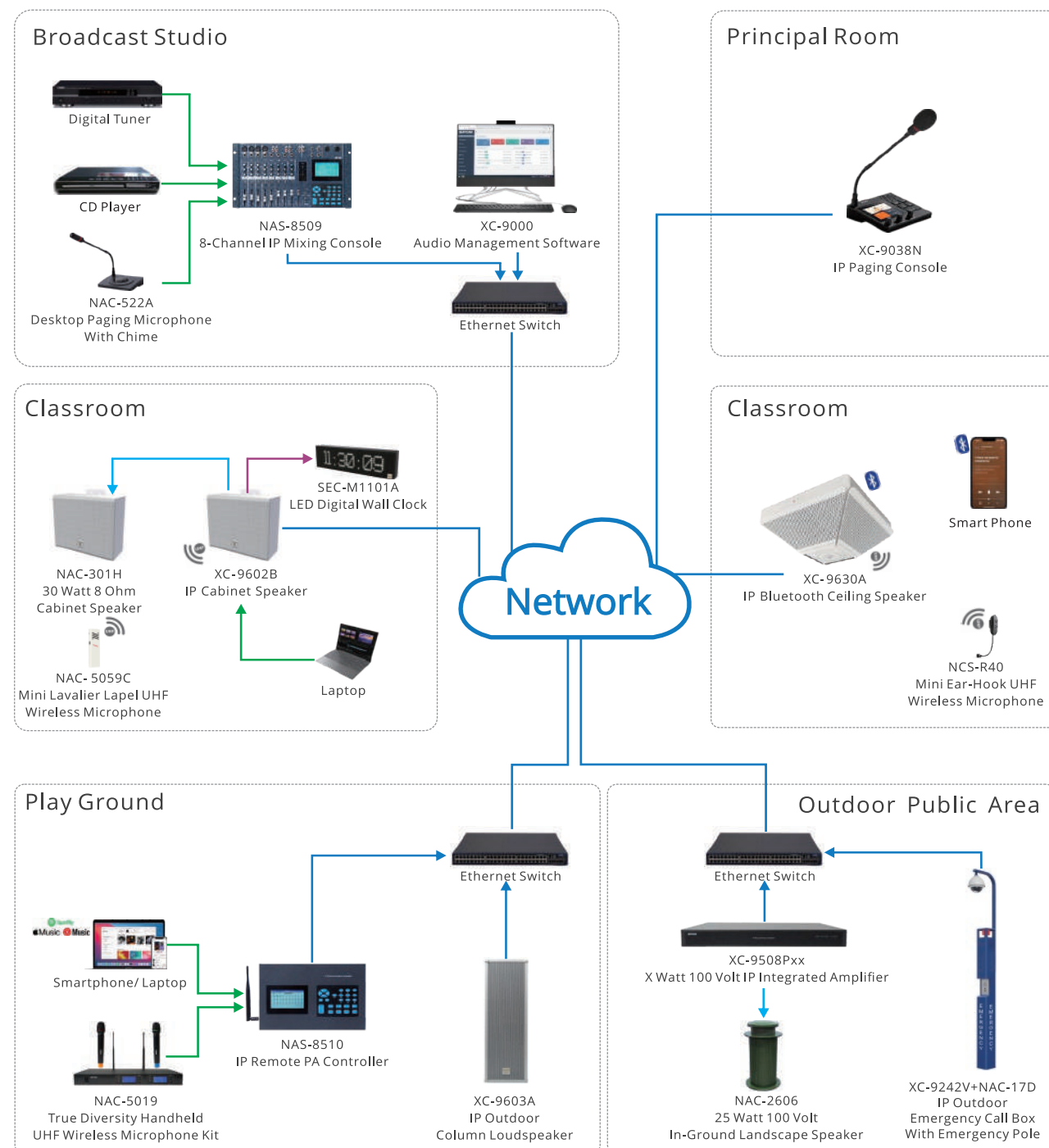
Intercom: Dedicated control protocols and audio encoding protocols, with encryption processing function

Telephone: Public VOIP controls and audio coding protocols, easy to be eavesdropped and falsified

As a dedicated phone system, the intercom system has a variety of unique functions and convenient operations which are unmatched and beyond any replacement by any ordinary telephones, contributing to relieving the labor intensity and uplifting the accuracy and efficiency of the communication.



## IP INTERCOM AND PA SYSTEM FOR SCHOOL

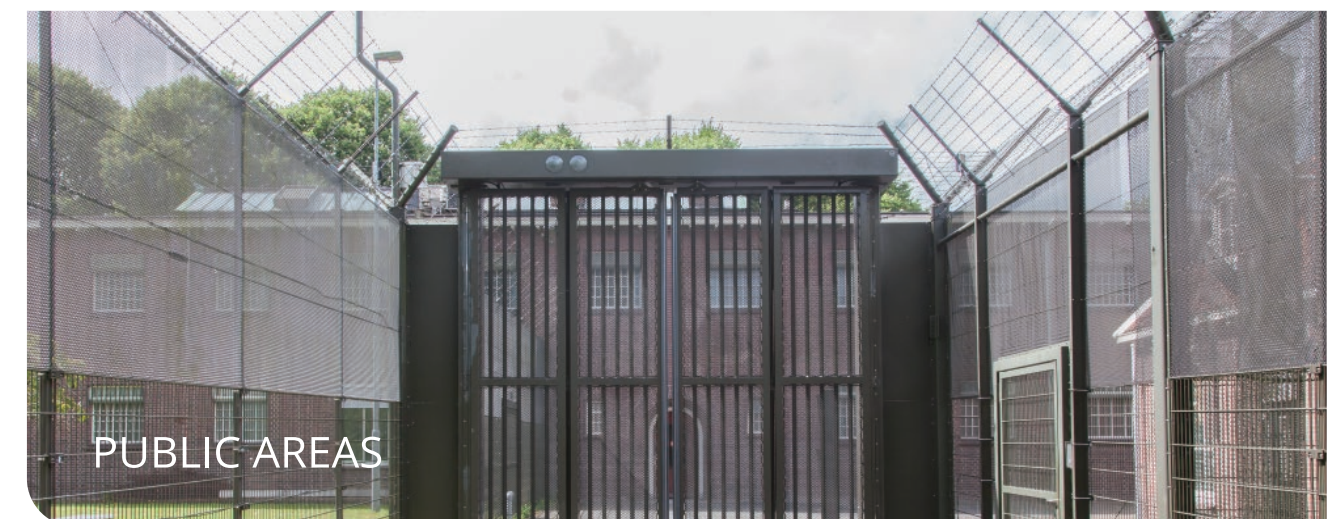
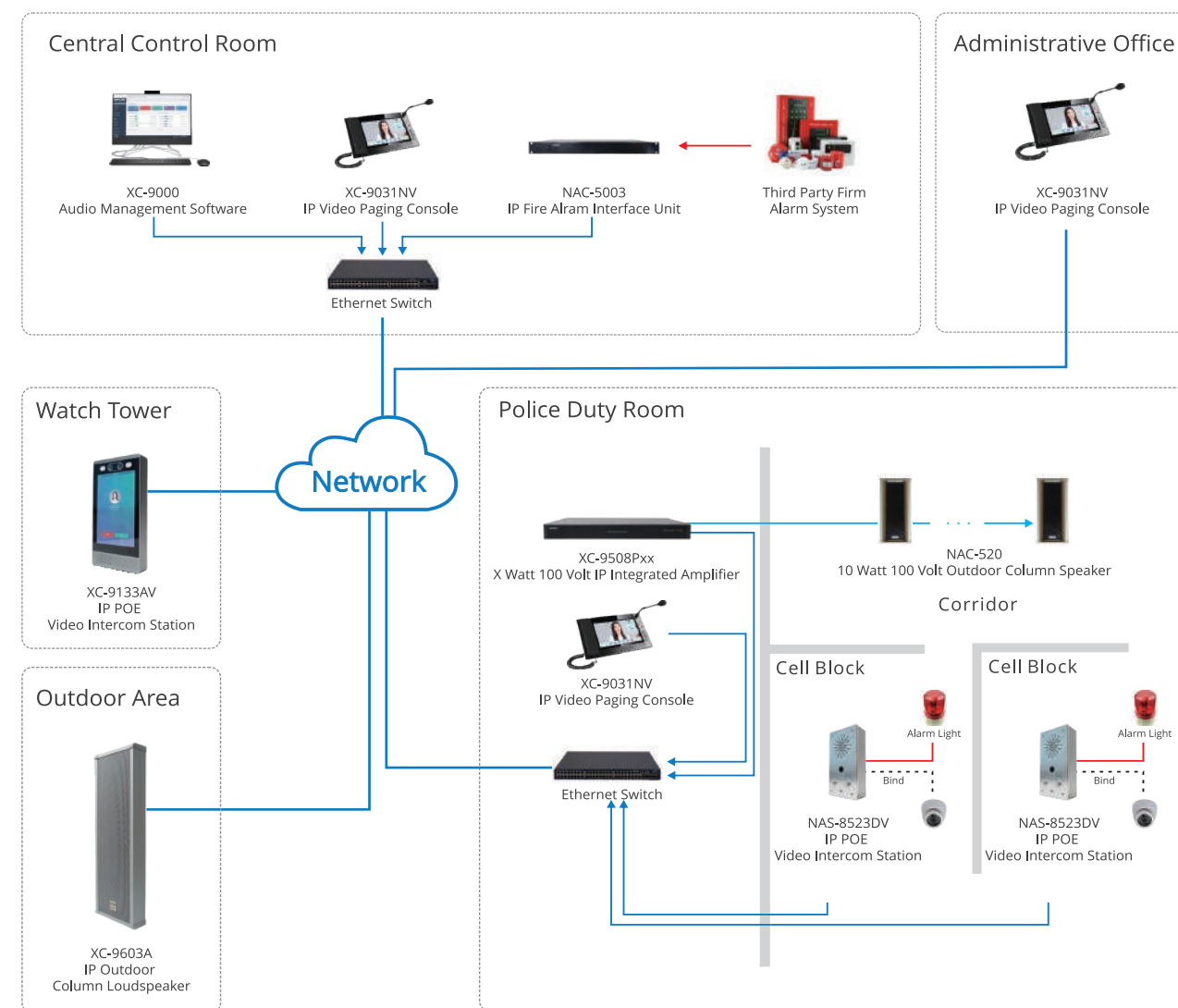


- The system allows for hierarchical management and enables the distribution of public addressing permissions.
- The classrooms are equipped with IP speakers, which provide local audio reinforcement and wireless microphone reinforcement.
- The system supports public address to all areas or designated areas, and also provides features for scheduling ring, playing background music, and initiating active voice paging.
- The system supports remote access, enabling the playback of external audio sources and volume control from a long distance.





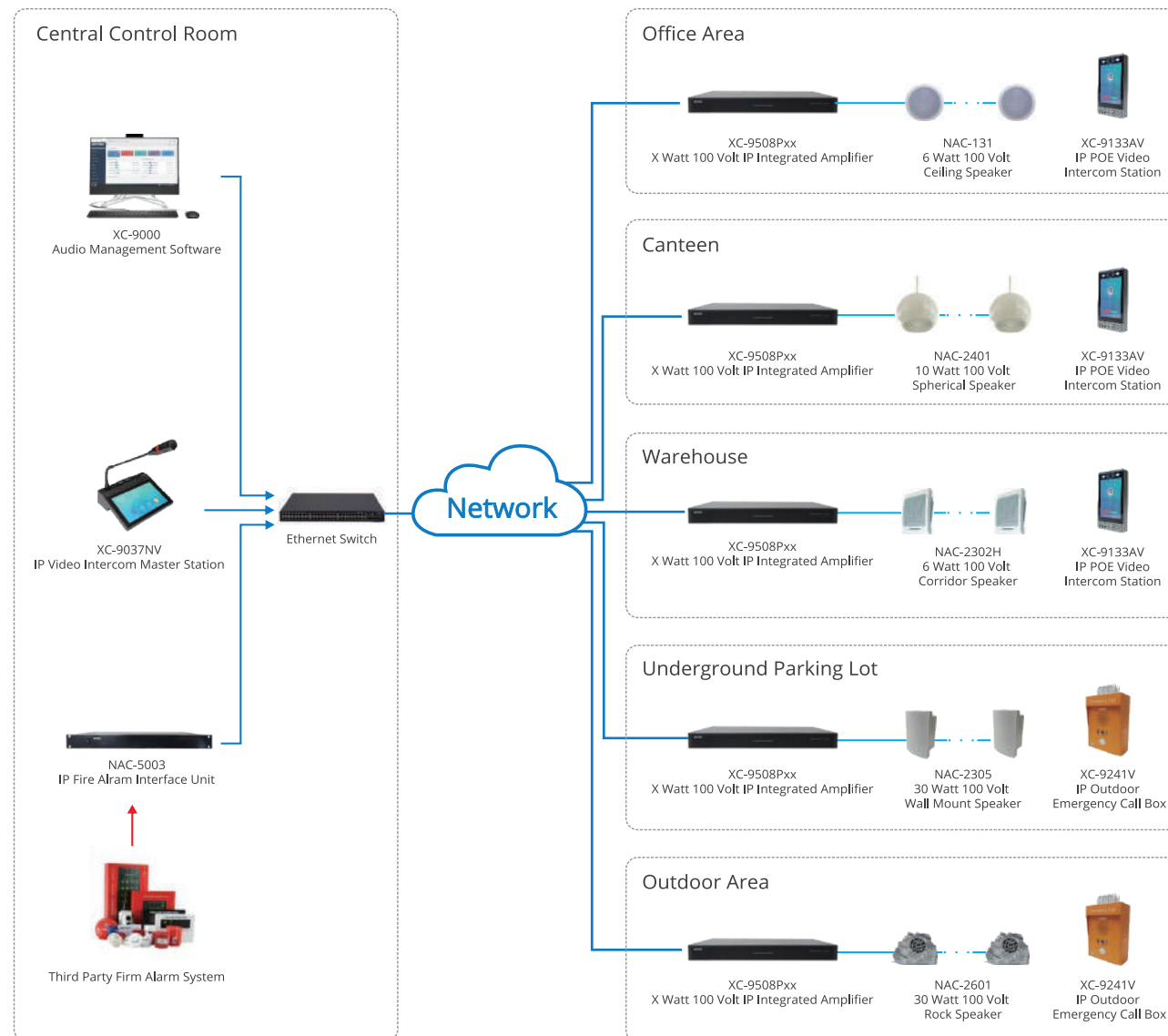
## IP INTERCOM SYSTEM FOR PRISON



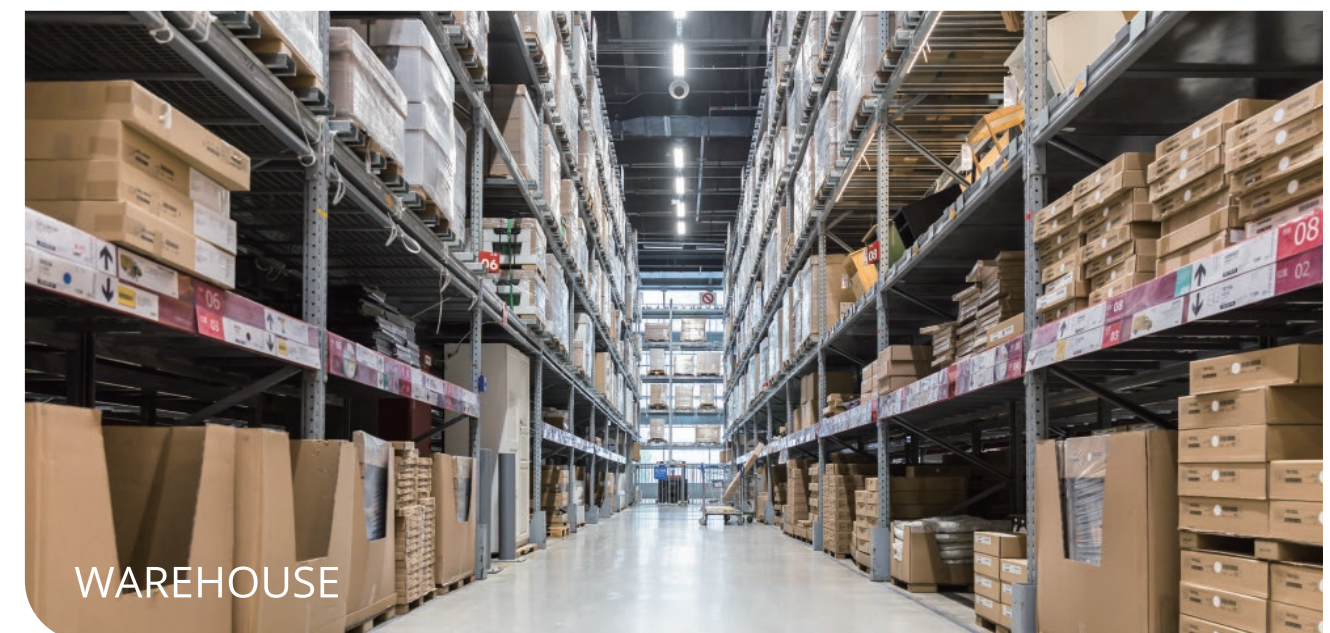
- The system supports one-touch emergency calling and can record all communication via intercom terminals. The audio and video files are saved on the system server.
- The system allows for scheduled audio tasks and real-time voice paging in individual cells and public areas within the prison.
- The intercom panels in prison cells are connected to external cameras. When the intercom is enabled, the platform can automatically pop up the external camera video to figure the situation out in a timely manner.
- With support for association with third-party fire extinguishing systems, the system can enable emergency public addressing to guide the evacuation of crowds in the event of a fire accident.



## IP INTERCOM AND PA SYSTEM FOR ENTERPRISE

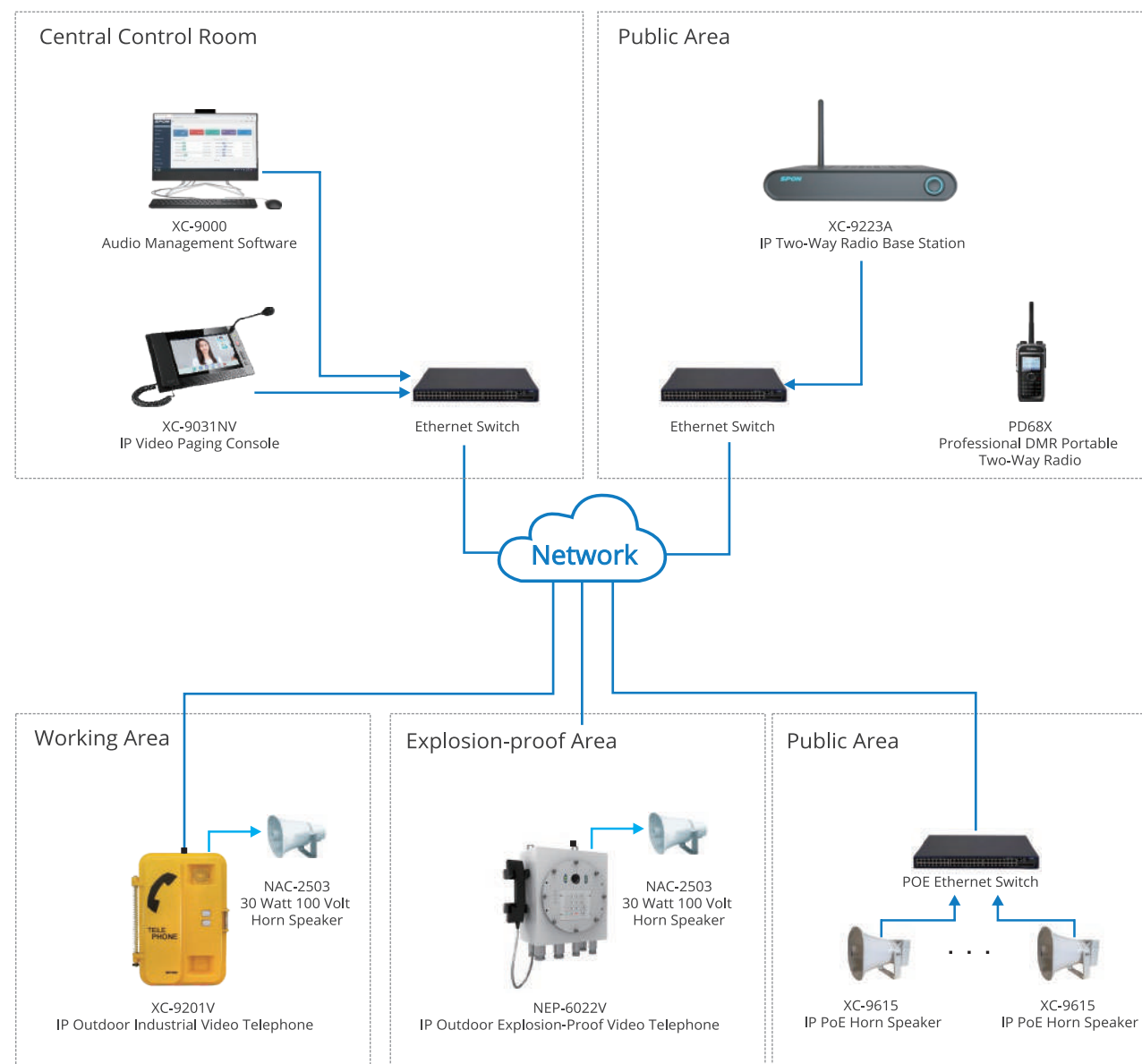


- With support for one-touch emergency calling, the device can initiate voice paging to the security department in case of emergency situations.
- The system supports public address to all areas and designated areas within the enterprise, and also provides features such as scheduled audio task, voice paging, and background music.
- With support for association with third-party fire extinguishing systems, the system can enable emergency public addressing to guide the evacuation of crowds in the event of a fire accident.
- With support for integration of SIP and VOIP, the system enables interaction between IP telephones, intercoms, and public address terminals.





## IP INTERCOM AND PA SYSTEM FOR FACTORY



- One-touch emergency button allows for immediate communication with the monitoring center in case of emergency situations in an industry, without the need for any additional actions. This helps ensure timely communication for requesting help.
- The system records all communication through intercom terminals, and audio and video files are saved on the system server.
- The system has flexible access control functions, which allow authorization to be set according to different accounts, effectively meeting the management needs of staffs of different levels in the factory management center.
- The alarm terminal is equipped with a digital power amplifier module, which can be connected to a sound pole or a horn speaker. It allows for voice paging to guide to evacuate crowds in case of emergency situations.

DUST-FREE  
WORKSHOP



OIL REFINERY



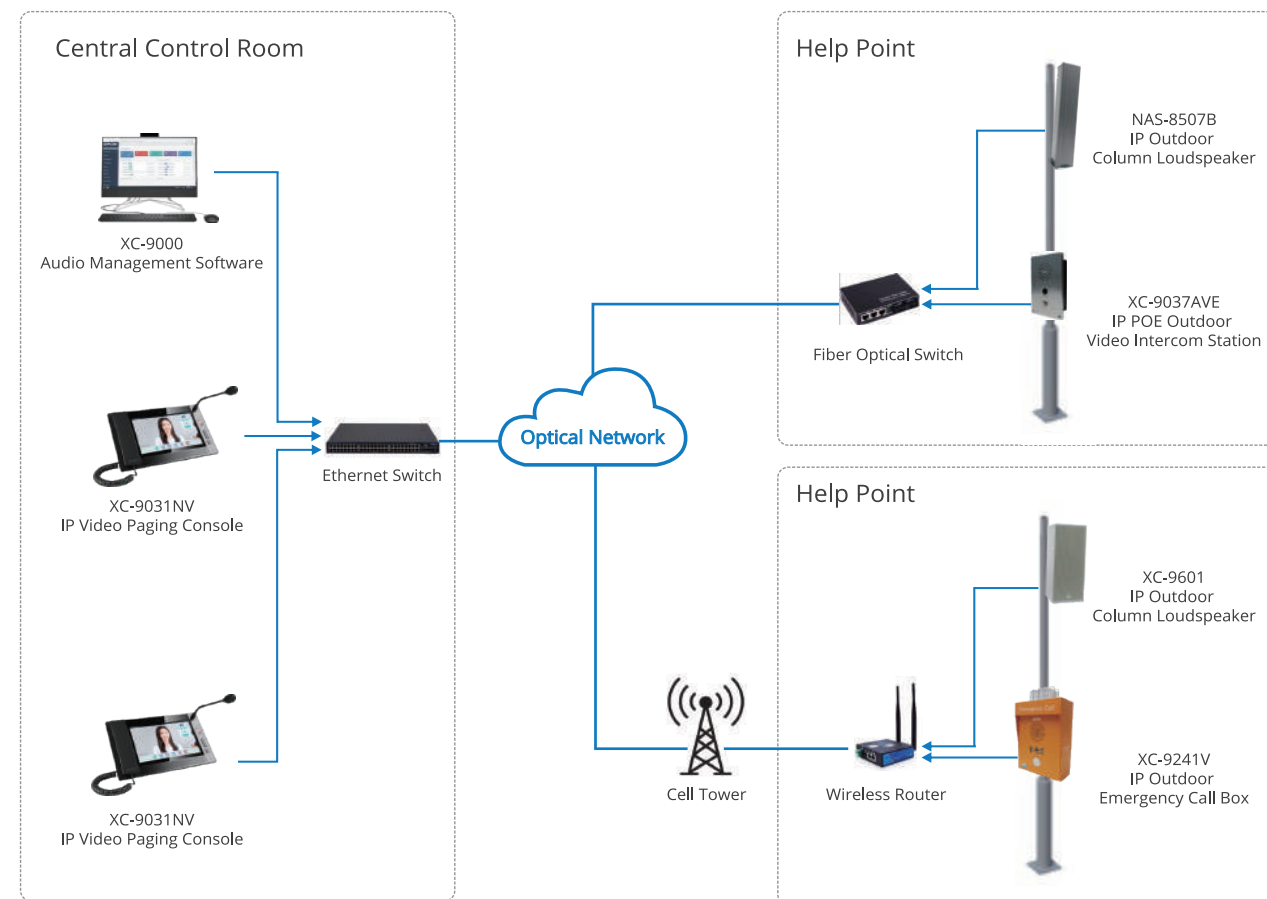
COAL MINE



GARMENT  
FACTORY



## IP INTERCOM AND PA SYSTEM FOR SAFE CITY

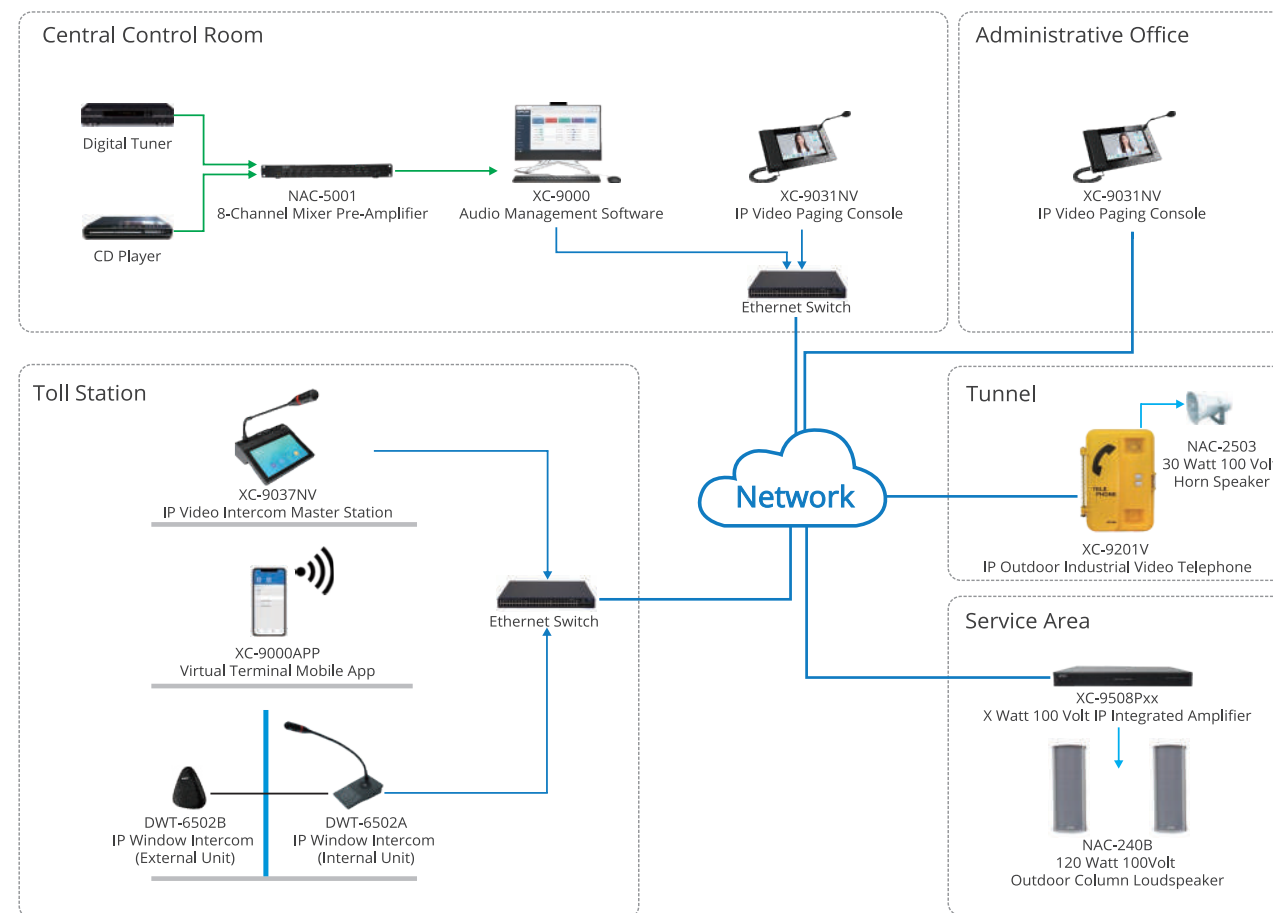


- Console center can make video calling to each alarm location by intercom system any time, with highly efficient, convenient and timely communication.
- The system supports the association between the intercom devices and the camera of third-party monitoring system. When the intercom is enabled, the platform can automatically pop up the external camera video to figure the situation out in a timely manner.
- The system records all communication through intercom terminals, the audio and video files are saved on the system server.
- The system supports public address to all areas, designated areas, and single terminals, and also provides features for scheduling audio tasks and initiating active voice paging.





## IP INTERCOM AND PA SYSTEM FOR TRANSPORTATION



- The system supports the hierarchical management, including monitor centers, sub-monitor centers, Toll monitor centers.
- Emergency call points are typically established in various locations, including service areas, toll booths, and tunnels, to allow for one-touch emergency calling to the monitoring center or management center.
- The system supports background music, voice paging, audio files, and audio tasks to meet the needs of daily tasks, highway situation broadcasting, and emergency alarms in service areas, toll booths, and tunnels.
- The system records all communication through intercom terminals, the audio and video files are saved on the system server.



TUNNEL



MASTER CONTROL CENTER



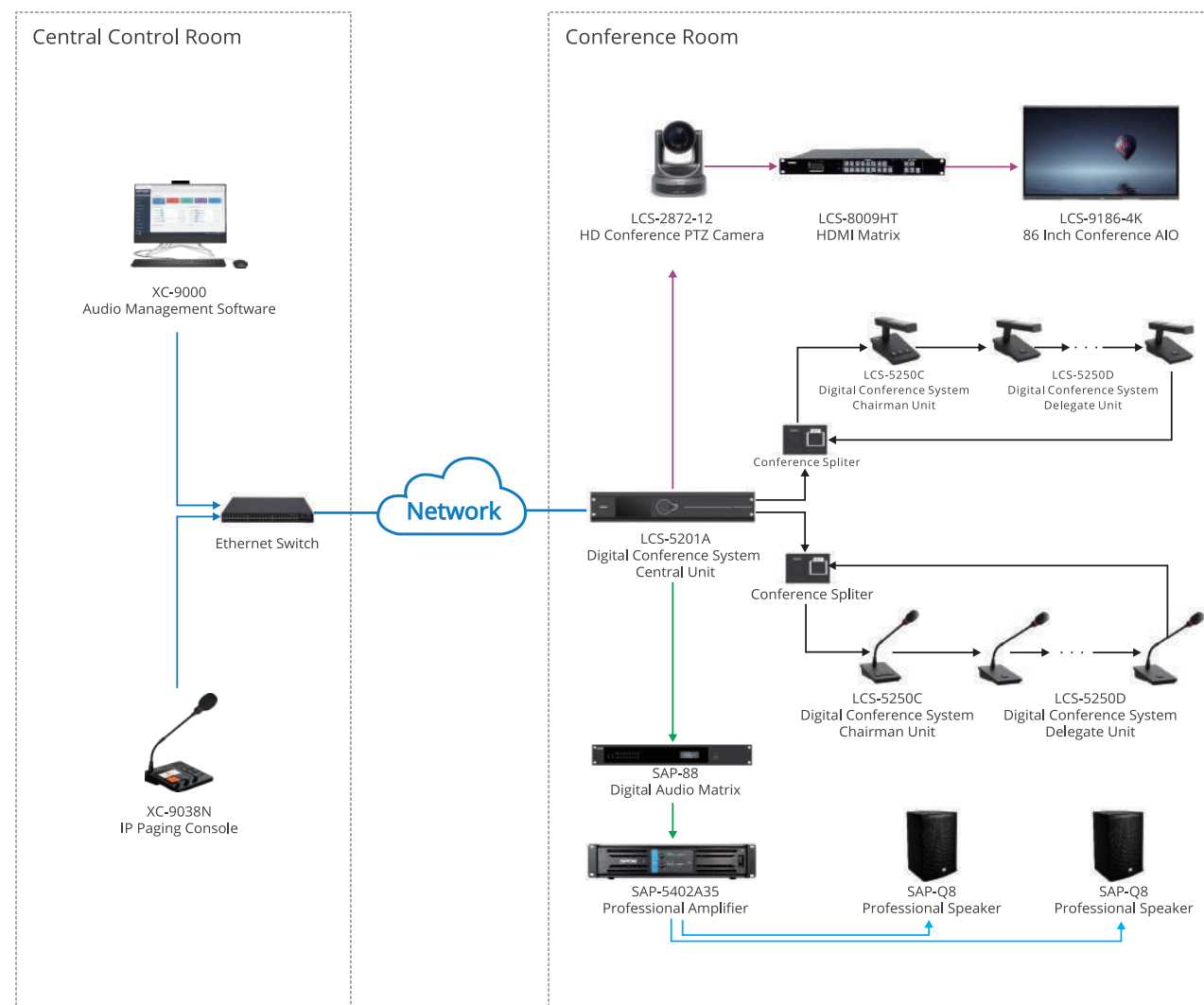
TOLL BOOTH



SERVICE AREA



## DIGITAL CONFERENCE SYSTEM FOR CONFERENCE ROOM



- The system is compatible with various types of conference rooms, and supports multiple conference speaking modes.
- The conference central units are connected to conference chairman units and delegate units through a ring network connection. The system supports inspections of terminal and status of the ring network connection.
- The system supports recording conference speaking and saves them in internal and external memory.
- The conference central units support RS485 conference cameras and are compatible with conference video tracking systems.



SPON

SOFTWARE APPLICATION

AUDIO MANAGEMENT SOFTWARE  
XC-9000

RECOMMENDED USES

As core management software installed on commercial PC and deployed at the master control room, mainly used by the system administrator to manage all the IP endpoint devices in the IP PA system & IP intercom system, control all the audio input sources and customize the paging zones.



KEY FEATURES

- Based on B/S (Browser/Server) architecture.
- Support loading maximum 1000 IP endpoint devices.
- Support assigning different authorities to different users.
- Volume adjustment for each IP endpoint device.
- System health monitoring.
- Flexible zone management.
- Live & pre-recorded voice announcements.
- Scheduled voice announcements.
- Real-time & timed background music.
- Emergency notification alerting.
- Call target designation.
- Call response settings.
- Call forwarding settings.

RECOMMENDED OPERATING ENVIRONMENT

CPU	Intel Core i5 or AMD equivalent
Memory	8GB
Storage	500GB SSD
NIC	100/1000Mbps self-adaptive
Sound Card	“Stereo Mix” enabled
Operating System	Microsoft Windows 10
Peripherals	keyboard, mouse, headset, etc

SOFTWARE LICENSE

License

State

Phone

Allow time

2020-01-01

Machine code

85C3B-0C358-8F8E1-F310F-0000

Register code

License

Registration Code (Trial License)

- 2-month free trial license for testing the audio management software.
- You can get it from SPON pre-sales department by providing the unique machine code.



XC-9000USB - USB Dongle

- Perpetual license with one-time fee.
- Available with audio management software running on Microsoft Windows 10 operating system.



XC-9000RD - Remote Dongle

- Perpetual license with one-time fee.
- Available with audio management software running on virtual machine.



# AUDIO MANAGEMENT INDUSTRIAL SERVER XC-9013

## RECOMMENDED USES

As core management equipment deployed at the master control room, mainly used by the system administrator to manage all the IP endpoint devices in the IP PA system & IP intercom system, control all the audio input sources and customize the paging zones.



## KEY FEATURES

- IPC (Industrial Personal Computer) case design with aluminum alloy structure, ensuring high anti-magnetic/-dust-proof/vandal resistant performance and excellent heat dissipation effect.
- 17.3" reinforced industrial touch screen, equipped with pull-out type hidden keyboard and mouse pad.
- Built-in 240GB high-capacity SSD (Solid-State Drive) with high anti-vibration/anti-drop capabilities.
- Industrial motherboard design with faster processing speed and higher performance, suitable for 24/7 long-running operation.
- Equipped with red emergency button and emergency handheld microphone, can be used for emergency warning/evacuation voice announcement.
- Pre-installed with XC-9000 audio management software, acting as the management center of SPON™ IP PA system & IP intercom system.

## TECHNICAL PARAMETERS

Processor	Intel Core i5-6500 CPU @ 3.20GHz
Operating System	Microsoft Windows 10 Pro 64-bit
Power Supply	ATX (AC 180-264V~/47-63Hz/7/3.5A)
Display Screen	17.3" Resistive Multi-Touch (RMT) Screen
Memory	8GB DDR4
Hard Drive	240GB SSD
Ports (Back)	1×PS/2 (Keyboard), 1×PS/2 (Mouse), 1×DVI-D, 1×VGA, 1×HDMI, 2×COM, 2×USB 3.1, 2×USB 2.0, 1×RJ45, 1×Line Input, 1×Line Output, 1×Mic Input
Ports (Front)	2×USB 2.0
Operating Temperature	-10℃-55℃ (14℉-131℉)
Operating Humidity	≤90% RH non-condensing
Dimensions	484×353.5×303mm
Weight	12.8kg
Standard Accessories	1×Handheld Emergency Microphone, 1×Installation Manual
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)

# VISUALIZATION MODULE XC-9000VIS

## APPLICATION SCENARIOS

- Providing perfect overview for the operator by visualizing IP PA system & IP intercom system in consideration of the local circumstances.
- Displaying IP endpoint devices (e.g. IP intercom station, IP paging mic, IP amplifier, IP speaker, etc.) on customer's specific map or building layout.
- Enabling the operator to call, page or monitor any specific IP endpoint device on the map/building layout directly.
- Enabling the operator to adjust the output volume of any specific IP endpoint device on the building layout directly.



# VISUALIZATION MODULE XC-9000VMS

## APPLICATION SCENARIOS

- Integrating live video stream from video-over-IP sources into IP PA system & IP intercom system via RTSP (Real Time Streaming Protocol).
- Video images from 3rd-party IP security camera will be arranged on-screen in a clearly structured grid for easy viewing.
- Video images from 3rd-party IP security camera around different IP endpoint device locations can be displayed alternately at set intervals.
- Video images will be popping up automatically once receiving call from front-end IP intercom station.





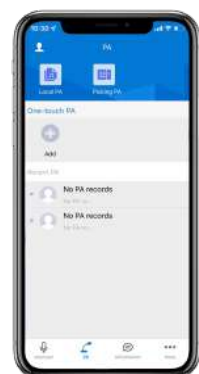
## 3RD PARTY VOIP CONNECTION MODULE XC-9000VOIP

### APPLICATION SCENARIOS

- Integrating industry-standard 3rd-party VoIP phone into IP PA system & IP intercom system via SIP (Session Initiation Protocol).
- Enabling the operator to initiate two-way communication from 3rd-party VoIP phone to front-end IP intercom station.
- Enabling the operator to receive two-way communication from front-end IP intercom station on 3rd-party VoIP phone.
- Enabling the operator to make live voice announcements from 3rd-party VoIP phone to single or a group of IP endpoint devices (e.g. IP amplifier, IP speaker, etc.).



## VIRTUAL TERMINAL MOBILE APP XC-9000APP



### APPLICATION SCENARIOS

- Supported Operating Systems: Android/iOS/Windows.
- Integrating your smartphone or your laptop into IP PA system & IP intercom system over a local or wide-area network.
- Enabling the operator to initiate two-way audio/video communication from the virtual terminal app to front-end IP intercom station.
- Enabling the operator to make live voice announcements from the virtual terminal app to single or a group of IP endpoint devices (e.g. IP amplifier, IP speaker, etc.).
- Enabling the operator to play real-time background music from the virtual terminal app to single or a group of IP endpoint devices (e.g. IP amplifier, IP speaker, etc.).
- Enabling the operator to monitor or surveil specific IP endpoint device (e.g. IP intercom station, IP speaker, etc.) on the virtual terminal mobile app.

## IP PAGING MICROPHONE





## IP AUDIO INTERCOM MASTER STATION XC-9037N

### RECOMMENDED USES

This modern-looking desktop intercom station with 7" HD touch screen is usually deployed at the master control room and would be a great fit for most security audio intercom projects.



### KEY FEATURES

- Two-way full duplex voice communication with front-end IP audio intercom station.
- Hands-free desktop station with gooseneck microphone and built-in speaker.
- 7" digital HD true color capacitive touch screen (resolution ratio: 1280×800).
- User-defined ringtones, wallpaper & screensaver, screen brightness and screen lock passcode of the device.
- Caller ID service (display & announcement) can help the operator to identify who's calling when receiving an incoming call.
- Optional answering modes include manual answering & automatic answering.
- Other functionalities such as call transfer, call on hold, three-way calling, PTT (Push-to-Talk) or remote unlocking can also be achieved during the voice communication.
- Music files stored in the built-in media library, USB flash drive or even your smartphone can be used to play real-time background music to SPON® IP PA system.
- Live & pre-recorded voice announcement, TTS (Text-to-Speech) voice announcement, one-touch emergency voice announcement and other PA functionalities are also available on this device.
- Real-time monitoring/surveillance on any specific IP endpoint device (e.g. IP intercom station, IP speaker, etc.).

### TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A
Audio Codec	G.711 A-law, G.711 μ-law, G.729, PCM/L16
S/N (Signal-to-Noise) Ratio	≥82dB
Audio Sampling & Bit Rate	8kHz-44.1kHz, 16bit, 8kbps-320kbps
Frequency Response	40Hz-18kHz
Network Protocol	SIP (RFC3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Configuration Method	Local Settings/Web Page
Mounting Method	Desktop
Interface	1×RJ45 Ethernet Port, 1×USB 2.0, 1×Line Input, 1×Line Output, 1×Relay Input, 1×Relay Output
Dimensions	184×169.3×58.9mm
Weight	0.75kg
Standard Accessories	1×Gooseneck Microphone Rod, 1×5-Pin Terminal Block Connector, 1×Installation Manual
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)

## IP PAGING CONSOLE XC-9038N

### RECOMMENDED USES

This modern-looking desktop paging console with 4" HD touch screen is equipped with built-in a mini web server that can manage maximum 30 IP endpoint devices. It would be a great fit for most small projects.



### KEY FEATURES

- Two-way full duplex voice communication with front-end IP audio intercom station.
- Adopting high-end aluminum alloy which is sturdy and durable.
- 4" LCD screen with 480\*480 resolution.
- Supporting U-disk and external audio sources mixing input
- Hands-free desktop station with gooseneck microphone and built-in 3W speaker.
- Available to trigger short circuit signal to the designated terminal during intercom (can be used to trigger external alarm light or electronic door lock).
- Cost-friendly as it is built-in with a mini server that can manage 30 terminals.
- Equipped with 3.5mm audio line output interface which can be connected to an active speaker.
- Supporting initiating & receiving offline intercom without centralized management server software.
- Independent audio volume adjustment button working like a mini mixer.
- Remote upgrade firmware via Easy Mic APP.
- Allow the operator to make live paging via this IP desktop intercom station.

### TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A
Audio Codec	G.711 A-law, G.711 μ-law, G.729, PCM/L16
S/N (Signal-to-Noise) Ratio	≥80dB
Audio Sampling & Bit Rate	8kHz-44.1kHz, 16bit, 8kbps-320kbps
Frequency Response	100Hz~16kHz
Network Protocol	SIP (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP,FTP
Configuration Method	Local Settings/Web Page
Mounting Method	Desktop
Interface	1×RJ45 Ethernet Port, 1×USB 2.0, 2×Line Input, 1×Line Output, 1×Relay Input, 1× Mic input,1×Power supply port,
Dimensions	144×144×34mm
Weight	0.55KG
Standard Accessories	1 X Microphone Rod, 1x Terminal Block Connector,1 x Installation Manual, 1 x Certification
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)



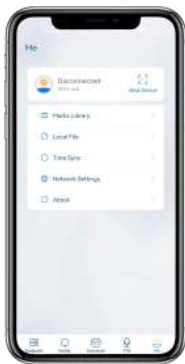
## MINI WEB SERVER XC-9038MS

### APPLICATION SCENARIOS

- Capability of adding maximum 30 terminals.
- Convenient operation by batch adding terminals.
- User-defined background music by upload audio files into media library.
- Scheduled bell ringing function.
- User-defined different tasks priority.
- Emergency notification alerting.
- Managing different zones via mini server.



## EASY MIC MOBILE APP XC-9038APP



### APPLICATION SCENARIOS

- Enabling the operator to create different tasks to convenient the operations.
- Schedule homepage to adding daily belling alerting.
- Displaying all terminals running status.
- Enabling the operator to make live voice announcements from the APP.
- Capable of automatically acquire the created tasks and upload audio files from the mini server.

## IP VIDEO INTERCOM MASTER STATION XC-9037NV

### RECOMMENDED USES

This modern-looking desktop intercom station with 7" HD touch screen and 2 mega pixel camera is usually deployed at the master control room and would be a great fit for most security audio intercom projects.



### KEY FEATURES

- Two-way full duplex voice communication with front-end IP audio intercom station.
- Hands-free desktop station with gooseneck microphone and built-in speaker.
- 7" digital HD true color capacitive touch screen (resolution ratio: 1280×800).
- Built-in 200W HD digital camera
- User-defined ringtones, wallpaper & screensaver, screen brightness and screen lock passcode of the device.
- Caller ID service (display & announcement) can help the operator to identify who's calling when receiving an incoming call.
- Optional answering modes include manual answering & automatic answering.
- Other functionalities such as call transfer, call on hold, three-way calling, PTT (Push-to-Talk) or remote unlocking can also be achieved during the voice communication.
- Music files stored in the built-in media library, USB flash drive or even your smartphone can be used to play real-time background music to SPON® IP PA system.
- Real-time monitoring/surveillance on any specific IP endpoint device (e.g. IP intercom station, IP speaker, etc.).

### TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A
Camera	2MP
Video Codec	VGA/720/1080
S/N (Signal-to-Noise) Ratio	≥82dB
Audio Sampling & Bit Rate	8kHz-44.1kHz, 16bit, 8kbps-320kbps
Frequency Response	40Hz-18kHz
Network Protocol	SIP (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Configuration Method	Local Settings/Web Page
Mounting Method	Desktop
Interface	1×RJ45 Ethernet Port, 1×USB 2.0, 1×Line Input, 1×Line Output, 1×Relay Input, 1×Relay Output
Dimensions	184×169.3×58.9mm
Weight	0.75kg
Standard Accessories	1 X Microphone Rod, 1x Terminal Block Connector, 1 x Installation Manual, 1 x Certification
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)



## IP VIDEO PAGING CONSOLE XC-9031NV

### RECOMMENDED USES

This modern-looking desktop intercom station with 10.2" HD touch screen and 13 mega pixel camera is usually deployed at the master control room and would be a great fit for most security audio intercom projects.



### KEY FEATURES

- 10.2" digital TFT true color LCD display & capacitive touch screen (resolution: 1280×800).
- 13 mega-pixel HD digital camera.
- Hands-free desktop station with gooseneck microphone and built-in speaker.
- Equipped with red emergency button, can be used for one-touch emergency broadcasting to all zones.
- initiating & receiving audio/video conference.
- Being able to check the network state (online or offline) of every terminal in the system.
- PoE (Power over Ethernet).
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Multi-party (no more than 5 parties) audio and video communication
- H.264/H.265 video decoding format to meet HD video call transmission requirements.
- With visualization Modules including map view module and scene view module
- Other functionalities such as call transfer, call on hold, three-way calling, PTT (Push-to-Talk) or remote unlocking can also be achieved during the voice communication.

### TECHNICAL PARAMETERS

Power Supply	DC 12V/3.3A or PoE IEEE802.3af
Camera	13MP
Video Codec	VGA/720/1080
S/N (Signal-to-Noise) Ratio	≥85dB
Audio Sampling & Bit Rate	8KHz~48KHz, 16bit/32bit
Frequency Response	25Hz~20KHz
Network Protocol	SIP (RFC 3261), TCP、UDP、ARP、ICMP、IGMP、HTTP、RTP
Configuration Method	Local Settings/Web Page
Mounting Method	Desktop
Interface	1×RJ45 Ethernet Port, 1× PC Port,1× HDMI Port, 1× Headset Port , 1×USB 2.0, 1× Line Output, 1× USB 3.0 1×Line Input, 1×Relay Input, 1×Relay Output,1× Power Port , 1× SD card Port
Dimensions	337×211×32.7mm
Weight	1.5KG
Standard Accessories	1×Telephone Cable, 1×Handset, 1×Gooseneck Microphone Rod, 1×Mounting Bracket, 1×Installation Manual
Optional Accessories	DC 12V/3.3A Power Adapter IEC C13 Power Cord (US/EU/UK/AU)



## IP AUDIO INTERCOM





## IP AUDIO INTERCOM STATION NAS-8515/NAS-8516

### RECOMMENDED USES

This IP audio intercom station is a hands-free communication intercom, which is suitable for all kinds of indoor environment.



NAS-8515

NAS-8516

### KEY FEATURES

- BS composite plastic shell, compact and lightweight design.
- Easy configuration via user-friendly web interface.
- Two-way full duplex voice communication with IP audio intercom master station in the master control room.
- Hands-free wall mount station with built-in microphone and speaker.
- LCD1602 TFT LCD screen shows the working status of the device.
- NAS-8515: Dual-button design for one-touch calling to the designated target intercom device.
- NAS-8516: Numeric keypad design for calling to any target intercom device by dialing the target device's ID.
- Mic Input (1/8"TS Jack) & Line Output (1/8" TS Jack) on the side of the device can be connected to external headset.
- Under the circumstance of network interruption, offline two-way voice communication with certain target intercom device is also possible.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for two-way voice communication.
- Work with SPON® XC-9000 audio management software for more features including two-way voice communication and live voice announcements.

### TECHNICAL PARAMETERS

MODEL NO	NAS-8515	NAS-8516
Power Supply	DC 12V/2A	
Power Consumption	≤5W	
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Sampling Rate	8kHz-22.05kHz, 16bit	
Transmission Bit Rate	16kbps-352kbps	
S/N (Signal-to-Noise) Ratio	≥80dB	
Frequency Response	25Hz-10kHz	
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Mic Input (1/8" TS Jack), 1×Line Output (1/8" TS Jack), 1×Power Input	
Dimensions	195.9×95.7×50.6mm	
Weight	0.3kg	
Standard Accessories	1×5-Pin Terminal Block Connector, 1×Installation Manual	
Optional Accessories	DC 12V/2A Power Adapter (US/EU/UK/AU)	

## IP AUDIO INTERCOM STATION NAS-8525/NAS-8526

### RECOMMENDED USES

This IP audio intercom station is compliant with standard SIP server .It supports full-duplex communication and PTT communication.



NAS-8525

NAS-8526

### KEY FEATURES

- ABS composite plastic shell, compact and lightweight design.
- Easy configuration via user-friendly web interface.
- Two-way full duplex voice communication with IP audio intercom master station in the master control room.
- Hands-free desktop station with gooseneck microphone and built-in speaker.
- LCD1602 TFT LCD screen shows the working status of the device.
- NAS-8525: Dual-button design for one-touch calling to the designated target intercom device.
- NAS-8526: Numeric keypad design for calling to any target intercom device by dialing the target device's ID.
- Mic Input (1/8" TS Jack) & Line Output (1/8" TS Jack) on the side of the device can be connected to external headset.
- Under the circumstance of network interruption, offline two-way voice communication with certain target intercom device is also possible.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for two-way voice communication.
- Work with SPON® XC-9000 audio management software for more features including two-way voice communication and live voice announcements.

### TECHNICAL PARAMETERS

MODEL NO	NAS-8525	NAS-8526
Power Supply	DC 12V/2A	
Power Consumption	≤5W	
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Sampling Rate	8kHz-22.05kHz, 16bit	
Transmission Bit Rate	16kbps-352kbps	
S/N (Signal-to-Noise) Ratio	≥80dB	
Frequency Response	25Hz-10kHz	
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Mic Input (1/8" TS Jack), 1×Line Output (1/8" TS Jack), 1×Power Input	
Dimensions	195.9×95.7×50.6mm	
Weight	0.4kg	
Standard Accessories	1×Gooseneck Microphone Rod, 1×5-Pin Terminal Block Connector, 1×Installation Manual	
Optional Accessories	DC 12V/2A Power Adapter (US/EU/UK/AU)	



## IP AUDIO INTERCOM STATION NAS-8527/NAS-8528

### RECOMMENDED USES

This IP audio intercom station is with headset and LCD screen, which provides hands-free or handset communication.



NAS-8527

NAS-8528

### KEY FEATURES

- ABS composite plastic shell, compact and lightweight design.
- Easy configuration via user-friendly web interface.
- Two-way full duplex voice communication with IP audio intercom master station in the master control room.
- Hands-free desktop station with built-in microphone and speaker.
- Handset can be used for two-way voice communication in noisy environment.
- LCD1602 TFT LCD screen shows the working status of the device.
- NAS-8527: Dual-button design for one-touch calling to the designated target intercom device.
- NAS-8528: Numeric keypad design for calling to any target intercom device by dialing the target device's ID.
- Mic Input (1/8" TS Jack) & Line Output (1/8" TS Jack) on the side of the device can be connected to external headset.
- Under the circumstance of network interruption, offline two-way voice communication with certain target intercom device is also possible.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for two-way voice communication.
- Work with SPON® XC-9000 audio management software for more features including two-way voice communication and live voice announcements.

### TECHNICAL PARAMETERS

MODEL NO	NAS-8527	NAS-8528
Power Supply	DC 12V/2A	
Power Consumption	≤5W	
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Sampling Rate	8kHz-22.05kHz, 16bit	
Transmission Bit Rate	16kbps-352kbps	
S/N (Signal-to-Noise) Ratio	≥80dB	
Frequency Response	25Hz-10kHz	
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Mic Input (1/8" TS Jack), 1×Line Output (1/8" TS Jack), 1×Power Input	
Dimensions	198×159×120mm	
Weight	0.6kg	
Standard Accessories	1×Base, 1×5-Pin Terminal Block Connector, 1×Installation Manual	
Optional Accessories	DC 12V/2A Power Adapter (US/EU/UK/AU)	

## IP SPLIT TYPE AUDIO INTERCOM CONTROLLER NAS-8521A

### RECOMMENDED USES

This IP split type audio intercom controller is special designed for bank situation , especially can be deployed in ATM machine to avoid exposure of network cable.



### KEY FEATURES

- Unique split type design for avoiding exposure of network cable and improving local network security.
- Easy configuration via user-friendly web interface.
- Each split type intercom controller can be connected to maximum 8pcs split type intercom panels via daisy-chain connection.
- Distance between the split type intercom controller and the connected split type intercom panel could reach up to 150 meters.
- Integrated with network audio encoder/decoder, the split type intercom controller can act as the bridge between the connected split type intercom panels and IP audio intercom master station in the master control room.
- Record Output (1/8" TS Jack) on the back panel of the device can be connected to external storage device for audio recording of the voice communication.
- Built-in 2×10 watt class-D digital amplifier for driving up to two 8-ohm passive analog speakers.
- Custom WAV or MP3 audio files can be stored in the SD card and played automatically by triggering the relay inputs of the device.
- Work with SPON® XC-9000 audio management software for powerful features including two-way voice communication and live voice announcements.

### TECHNICAL PARAMETERS

Power Supply	DC 12V/2A
Power Consumption	≤23W
Network Protocol	FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-44.1kHz, 16bit
Transmission Bit Rate	8kbps-320kbps
S/N (Signal-to-Noise) Ratio	≥85dB
Frequency Response	20Hz-16kHz
Interface	1×RJ45 Ethernet Port, 1×SD Card Slot, 2×Relay Input, 2×Relay Output, 1×Line Output (1/8" TS Jack), 1×Record Output (1/8" TS Jack), 1×Intercom Panel Output, 2×Speaker Output (8Ω), 1×Power Input
Dimensions	210×155×44.5mm
Weight	0.5kg
Standard Accessories	2×8-Pin Terminal Block Connector, 1×Installation Manual
Optional Accessories	DC 12V/2A Power Adapter (US/EU/UK/AU)



## AUDIO INTERCOM PANEL NAS-8521B/NAS-8521C

### RECOMMENDED USES

This audio intercom panel has two type , panel with one button ,and panel with two button, which adopts high-end aluminum alloy.



NAS-8521B

NAS-8521C

### KEY FEATURES

- All-metal shell, anti-corrosion brushed aluminum panel.
- Compact and lightweight design, sturdy and durable.
- Two-way full duplex voice communication with IP audio intercom master station in the master control room.
- Hands-free wall mount panel with built-in microphone and speaker.
- NAS-8521B: Single-button design for one-touch calling to the designated target intercom device.
- NAS-8521C: Dual-button design for one-touch calling to the designated target intercom device.
- Tamper alarm functionality enables the device to trigger a warning siren whenever the panel has been forcibly damaged.
- User-defined ringtones for phone call connected, busy line, target hang up, etc.
- Work specifically with SPON® NAS-8521 IP split type audio intercom controller via daisy-chain connection.

### TECHNICAL PARAMETERS

MODEL NO	NAS-851B	NAS-8521C
Interface	1×Intercom Panel Input, 1×Intercom Panel Output	
IP Rating	IP54	
Dimensions	166×115×32mm	
Weight	0.8kg	
Standard Accessories	1×Customer Operational Guideline, 1×Installation Manual	

## AUDIO INTERCOM PANEL NAS-8521D/NAS-8521E

### RECOMMENDED USES

This audio intercom panel is equipped with two kinds , one is for surface-mounted installation, another is for embedded installation.



NAS-8521D

NAS-8521E

### KEY FEATURES

- All-metal shell, anti-corrosion brushed aluminum panel.
- Compact and lightweight design, sturdy and durable.
- Two-way full duplex voice communication with IP audio intercom master station in the master control room.
- Single-button design for one-touch calling to the designated target intercom device.
- NAS-8521D: Hands-free flush mount panel with built-in microphone and speaker.
- NAS-8521E: Hands-free wall mount panel with built-in microphone and speaker.
- Tamper alarm functionality enables the device to trigger a warning siren whenever the panel has been forcibly damaged.
- User-defined ringtones for phone call connected, busy line, target hang up, etc.
- Work specifically with SPON® NAS-8521 IP split type audio intercom controller via daisy-chain connection.

### TECHNICAL PARAMETERS

MODEL NO	NAS-8521D	NAS-8521E
Interface:	1×Intercom Panel Input, 1×Intercom Panel Output	
IP Rating:	IP54	
Dimensions:	150×62×31mm	155×67×30mm
Weight:	0.3kg	
Standard Accessories	1×Customer Operational Guideline, 1×Installation Manual	



## IP POE AUDIO INTERCOM STATION NAS-8523C/NAS-8523D

### RECOMMENDED USES

This IP PoE audio intercom station is a compliant with standard SIP server. It is also an IP door phone for hands-free visitor communication at a secure entrance door or gate, access point, and room intercom applications.



NAS-8523C

NAS-8523D

### KEY FEATURES

- All-metal shell, high-grade brushed aluminum panel.
- Compact and lightweight design, sturdy and durable.
- Two-way full duplex voice communication with IP audio intercom master station in the master control room.
- Hands-free wall mount station with built-in microphone and speaker.
- NAS-8523C: Single-button design for one-touch calling to the designated target intercom device.
- NAS-8523D: Dual-button design for one-touch calling to the designated target intercom device.
- Under the circumstance of network interruption, offline two-way voice communication with certain target intercom device is also possible.
- Tamper alarm functionality enables the device to trigger a warning siren whenever the panel has been forcibly damaged.
- Support PoE (Power over Ethernet).
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for two-way voice communication.
- Work with SPON® XC-9000 audio management software for more features including two-way voice communication and live voice announcements.

### TECHNICAL PARAMETERS

MODEL NO	NAS-8523C	NAS-8523D
Power Supply	DC 24V/1A or PoE (IEEE802.3af)	
Power Consumption	≤30W	
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Sampling Rate	8kHz-22.05kHz, 16bit	
Transmission Bit Rate	8kbps-320kbps	
S/N (Signal-to-Noise) Ratio	≥82dB	
Frequency Response	50Hz-20kHz	
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Line Input, 1×Line Output, 1×Controlled Power Output, 1×Power Input	
Dimensions	191×101×46mm	
Weight	1.0kg	
Standard Accessories	1×2-Pin Terminal Block Connector, 1×3-Pin Terminal Block Connector, 1×Installation Manual	
Optional Accessories	DC 24V/1A Power Adapter (US/EU/UK/AU)	

## IP POE OUTDOOR AUDIO INTERCOM STATION XC-9137AE/XC-9137AS

### RECOMMENDED USES

This IP PoE outdoor audio intercom station is with IP65 waterproof level . It can be embedded to the intelligent road light pole to realize the outdoor emergency call with the police.



XC-9137AE

XC-9137AS

### KEY FEATURES

- All-metal shell, high-grade brushed aluminum panel.
- Compact and lightweight design, sturdy and durable.
- Outdoor weatherproof design, IP rating could reach IP65.
- Two-way full duplex voice communication with IP audio intercom master station in the master control room.
- Single-button design for one-touch calling to the designated target intercom device.
- XC-9137AE: Hands-free flush mount station with built-in microphone and speaker.
- XC-9137AS: Hands-free wall mount station with built-in microphone and speaker.
- Under the circumstance of network interruption, offline two-way voice communication with certain target intercom device is also possible.
- Support PoE (Power over Ethernet).
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for two-way voice communication.
- Work with SPON® XC-9000 audio management software for more features including two-way voice communication and live voice announcements.

### TECHNICAL PARAMETERS

MODEL NO	XC-9137AE	XC-9137AS
Power Supply	DC 12V/1.5A or PoE (IEEE802.3af)	
Power Consumption	≤18W	
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Sampling Rate	8kHz-44.1kHz, 16bit	
Transmission Bit Rate	8kbps-320kbps	
S/N (Signal-to-Noise) Ratio	≥81dB	
Frequency Response	200Hz-18kHz	
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Record Output, 1×Power Input	
IP Rating	IP65	
Dimensions	162×100×36mm	162×100×41mm
Weight	0.8kg	1.0kg
Standard Accessories	1×Waterproof Connector, 2×2-Pin Terminal Block Connector, 1×3-Pin Terminal Block Connector, 1×Customer Operational Guideline, 1×Installation Manual	
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)	



## IP OUTDOOR AUDIO INTERCOM STATION IFA-8514



### RECOMMENDED USES

This IP outdoor audio intercom station with physical buttons can dial to any other terminals. It will be a great choice in indoor or outdoor places.

### KEY FEATURES

- All-metal shell, high-grade brushed aluminum panel, sturdy and durable.
- Outdoor weatherproof design, IP rating could reach IP65.
- Tri-proof (moisture-proof/salt-spray proof/fungus-proof) internal circuit design.
- Two-way full duplex voice communication with IP audio intercom master station in the master control room.
- Hands-free wall mount station with built-in microphone and speaker.
- Numeric keypad design for calling to any target intercom device by dialing the target device's ID.
- Under the circumstance of network interruption, offline two-way voice communication with certain target intercom device is also possible.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for two-way voice communication.
- Work with SPON® XC-9000 audio management software for more features including two-way voice communication and live voice announcements.

### TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A
Power Consumption	≤18W
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-22.05kHz, 16bit
Transmission Bit Rate	8kbps-320kbps
S/N (Signal-to-Noise) Ratio	≥80dB
Frequency Response	40Hz-10kHz
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Line Input, 1×Line Output, 1×Power Input
IP Rating	IP65
Dimensions	257×119×47.5mm
Weight	2.0kg
Standard Accessories	2×Waterproof Connector, 1×Installation Manual
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)

## IP POE TWO-WAY RADIO BASE STATION XC-9223A



### RECOMMENDED USES

Designed for outdoor mobile intercoms and alarms.

### KEY FEATURES

- Two-way PTT half duplex voice communication with IP audio intercom master station in the master control room.
- Easy configuration via user-friendly web interface.
- Keyword recognition technology enables the device to trigger preset operation when identifying certain keywords during the voice communication.
- Under the circumstance of network interruption, offline voice communication with certain target intercom device is also possible.
- Work with SPON® XC-9000 audio management software for powerful features including two-way voice communication and live voice announcements.

### TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A or PoE (IEEE802.3af)
Power Consumption	≤6W
Network Protocol	HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Interface	1×RJ45 Ethernet Port, 1×Antenna Port, 1×Relay Input, 1×Relay Output, 1×Line Output, 1×Power Input
Dimensions	215×125×37mm
Weight	0.4kg
Standard Accessories	1×Sucker Antenna, 1×4-Pin Terminal Block Connector, 1×Installation Manual
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)

## PROFESSIONAL DMR PORTABLE TWO-WAY RADIO PD68X



### TECHNICAL PARAMETERS

Frequency Range	UHF: 400-527MHz; VHF: 136-174MHz
Channel Capacity	1024
Zone Capacity	64
Operating Voltage	7.4V
Battery	2000mAh (Li-Ion)
Battery Life	Analog/Digital: 14.5/21 hours
Dimensions	122×54×27mm
Weight	0.3kg



# IP POE OUTDOOR INDUSTRIAL TELEPHONE XC-9201

### RECOMMENDED USES

This IP PoE outdoor industrial telephone provides hands-free or headset full duplex communication , and it is specially designed for harsh environments such as oil, gas stations.



### KEY FEATURES

- Aluminum alloy shell with baking varnish surface treatment (dust-proof/noise-proof/anti-corrosion).
- Outdoor weatherproof design, IP rating could reach IP66.
- Two-way full duplex voice communication with IP audio intercom master station in the master control room.
- Single-button design for one-touch calling to the designated target intercom device.
- Numeric keypad design for calling to any target intercom device by dialing the target device's ID.
- Hands-free wall mount telephone with built-in microphone and speaker.
- Handset can be used for two-way voice communication in noisy environment.
- Built-in 2×30 watt class-D digital amplifier for driving up to two 8-ohm passive analog speakers.
- Under the circumstance of network interruption, offline two-way voice communication with certain target intercom device is also possible.
- Support PoE (Power over Ethernet).
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for two-way voice communication.
- Work with SPON® XC-9000 audio management software for more features including two-way voice communication and live voice announcements.

### TECHNICAL PARAMETERS

Power Supply	DC 12V/2.7A or PoE (IEEE802.3af)
Power Consumption	≤65W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-44.1kHz, 16bit
Transmission Bit Rate	8kbps-320kbps
S/N (Signal-to-Noise) Ratio	≥93dB
Frequency Response	25Hz-15kHz
Interface	1×RJ45 Ethernet Port, 1×Relay Output, 2×Speaker Output (8Ω), 1×Power Input
IP Rating	IP66
Dimensions	346×241×125mm
Weight	7.4kg
Standard Accessories	1×Waterproof Connector, 1×Mounting Plate, 1×Installation Manual
Optional Accessories	DC 24V/2.7A Power Adapter IEC C13 Power Cord (US/EU/UK/AU)



# WINDOW INTERCOM





## IP WINDOW INTERCOM KIT DWT-6502AB

### RECOMMENDED USES

Mainly used for audio communication between staff and customer on bank counter, expressway charging window, ticket office, hospital registration counter, etc.



DWT-6502A

DWT-6502B

### KEY FEATURES

- Adopting industry-leading DSP (Digital Signal Processing) multichannel audio technology, effectively preventing howling and channel disturbance, realizing HD digital full duplex intercom.
- Anti-tilt design, adopting aluminum alloy shell, glass panel and full touch button (no noise of keypress, easy to be cleaned or disinfected), every button has its own status indicator light to indicate the real-time operating state of the staff unit.
- Equipped with directional condenser gooseneck microphone (polar pattern: cardioid) on the staff unit, realizing high-fidelity sound pickup, improving the sound clarity.
- Being able to intelligently recognize the sound source and suppress the ambient noise, high-quality restoration of human voice.
- Supporting engineer mode settings for precise volume adjustment of the staff unit and customer unit (offering 15 different volume levels for adjustment).
- Offering 4 kinds of recording function using together with software.
- Capable of connecting loop amplifier via recording port.
- Offering three different scene modes (noise/standard/quiet), rotary switch adjustment.
- Available for the customization of pre-recorded welcome and goodbye voice messages (including "hello, welcome to ..." and "thank you for coming, goodbye").

### TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A
Power Consumption	≤5W
Network Protocol	TCP/IP, UDP, ARP, ICMP, IGMP,FTP
Audio Codec	PCM/AAC
Audio Sampling Rate	8kHz-32kHz
S/N (Signal-to-Noise) Ratio	≥90dB
Frequency Response	20Hz~16kHz
Interface	1×RJ45 Ethernet Port, 1×Power Input , 1×Recording Port , 1× external and internal connector
Dimension	Internal Part:95x160x46.5mm, external: 83x24mm
Weight	0.44kg,0.2kg
Standard Accessories	1×Terminal Block Connector, 3×Cable Clamp, 1×Installation Manual,1×Certification, 1×EV-cotton,3×screw,1× microphone rod,1× Bushings(cable guidance)
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)

## DIGITAL WINDOW INTERCOM KIT DWT-6505AB

### RECOMMENDED USES

Mainly used for audio communication between staff and customer on bank counter, expressway charging window, ticket office, hospital registration counter, etc.



DWT-6505A

DWT-6505B

### KEY FEATURES

- Adopting industry-leading DSP (Digital Signal Processing) multichannel audio technology, effectively preventing howling and channel disturbance, realizing HD digital full duplex intercom.
- Anti-tilt design, adopting aluminum alloy shell, glass panel and full touch button (no noise of keypress, easy to be cleaned or disinfected), every button has its own status indicator light to indicate the real-time operating state of the staff unit.
- Professional metal cavity structure design, completely eliminating the resonance of the device, ensuring a pure & natural sound quality.
- Being able to intelligently recognize the sound source and suppress the ambient noise, high-quality restoration of human voice.
- Supporting engineer mode settings for precise volume adjustment of the staff unit and customer unit (offering 5 different volume levels for adjustment).
- Capable of connecting loop amplifier via recording port.
- Offering three different scene modes (noise/standard/quiet), rotary switch adjustment.

### TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A
Power Consumption	≤5W
Network Protocol	TCP/IP, UDP, ARP, ICMP, IGMP,FTP
Audio Codec	PCM/AAC
Audio Sampling Rate	8kHz-32kHz
S/N (Signal-to-Noise) Ratio	≥90dB
Frequency Response	20Hz~16kHz
Interface	1×RJ45 Ethernet Port, 1×Power Input , 1×Recording Port , 1× external and internal connector
Dimension	Internal Part:95x160x46.5mm, external: 83x24mm
Weight	0.44kg,0.2kg
Standard Accessories	1×Terminal Block Connector,3×cable clamp, 1×Installation Manual,1×certification, 1×EV-cotton,3×screw,1× microphone rod,1× Bushings(cable guidance)
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)



## DIGITAL WINDOW INTERCOM KIT DWT-6507AB

### RECOMMENDED USES

Mainly used for audio communication between staff and customer on bank counter, expressway charging window, ticket office, hospital registration counter, etc.



DWT-6507A      DWT-6507B

### KEY FEATURES

- Adopting industry-leading DSP (Digital Signal Processing) multichannel audio technology, effectively preventing howling and channel disturbance, realizing HD digital full duplex intercom.
- Anti-tilt design, adopting aluminum alloy shell, glass panel and full touch button (no noise of keypress, easy to be cleaned or disinfected), every button has its own status indicator light to indicate the real-time operating state of the staff unit.
- Equipped with directional condenser gooseneck microphone (polar pattern: cardioid) on the staff unit, realizing high-fidelity sound pickup, improving the sound clarity.
- Being able to intelligently recognize the sound source and suppress the ambient noise, high-quality restoration of human voice.
- Supporting engineer mode settings for precise volume adjustment of the staff unit and customer unit (offering 15 different volume levels for adjustment).
- Capable of connecting loop amplifier via recording port
- Offering three different scene modes (noise/standard/quiet), rotary switch adjustment.
- With three physical buttons.
- Being able to intelligently self-check the connection status between staff & customer unit, warning tone will be activated automatically whenever the connection fails.

### TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A
Power Consumption	≤5W
Network Protocol	TCP/IP, UDP, ARP, ICMP, IGMP,FTP
Audio Codec	PCM/AAC
Audio Sampling Rate	8kHz-32kHz
S/N (Signal-to-Noise) Ratio	≥90dB
Frequency Response	20Hz~16kHz
Interface	1×RJ45 Ethernet Port, 1×Power Input , 1×Recording Port , 1× external and internal connector
Dimension	Internal Part:95x160x46.5mm, external: 83x24mm
Weight	0.44kg,0.2kg
Standard Accessories	1×Terminal Block Connector,3×cable clamp, 1×Installation Manual,1×certification,1×EV-cotton, 3×screw,1× microphone rod,1× Bushings(cable guidance)
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)



## IP VIDEO INTERCOM





## IP POE VIDEO INTERCOM STATION NAS-8523CV/NAS-8523DV

### RECOMMENDED USES

This IP PoE intercom built-in with 1080P camera for a high quality video communication to with any video master station.This IP intercom delivers reliable video communication for building entry or access point communication with visitors and guests.

### KEY FEATURES

- All-metal shell, high-grade brushed aluminum panel.
- Compact and lightweight design, sturdy and durable.
- Built-in 1080P HD camera; Compatible with standard ONVIF protocol, can be connected with NVR to make recording;
- Two-way full duplex voice communication with IP video intercom master station in the master control room.
- Hands-free wall mount station with built-in microphone and speaker.
- NAS-8523CV: Single-button design for one-touch calling to the designated target intercom device.
- NAS-8523DV: Dual-button design for one-touch calling to the designated target intercom device.
- Under the circumstance of network interruption, offline two-way voice communication with certain target intercom device is also possible.
- Tamper alarm functionality enables the device to trigger a warning siren whenever the panel has been forcibly damaged.
- Outdoor weatherproof design, IP rating could reach IP54.
- Support PoE (Power over Ethernet).
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for two-way voice communication.
- Work with SPON® XC-9000 audio management software for more features including two-way voice communication and live voice announcements.

### TECHNICAL PARAMETERS

MODEL NO	NAS-8523CV	NAS-8523DV
Power Supply	DC 24V/1A or PoE (IEEE802.3af)	
Power Consumption	≤30W	
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Sampling Rate	8kHz-22.05kHz, 16bit	
Video transmission Bit Rate	512Kbps-4Mbps	
Video Coding	GVA/720/1080P	
S/N (Signal-to-Noise) Ratio	≥82dB	
Frequency Response	50Hz-20kHz	
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Line Input, 1×Line Output, 1×Controlled Power Output, 1×Power Input	
Dimensions & Weight	191×101×46mm & 1.0kg	
Standard Accessories	1×2-Pin Terminal Block Connector, 1×3-Pin Terminal Block Connector, 1×Installation Manual	
Optional Accessories	DC 24V/1A Power Adapter (US/EU/UK/AU)	



NAS-8523CV

NAS-8523DV

## IP POE OUTDOOR VIDEO INTERCOM STATION XC-9137AVE/XC-9137AVS

### RECOMMENDED USES

This model supports H.264 encoding format for High Definition video communication. Supports with Surface mount and flush-mount which are mainly used for smart light pole, Charging pile and other outdoor environments.

### KEY FEATURES

- All-metal shell, high-grade brushed aluminum panel.
- Compact and lightweight design, sturdy and durable.
- Built-in 1080P HD camera; Compatible with standard ONVIF protocol, can be connected with NVR to make recording;
- Outdoor weatherproof design, IP rating could reach IP65.
- Two-way full duplex voice communication with IP video intercom master station in the master control room.
- Single-button design for one-touch calling to the designated target intercom device.
- XC-9137AVE: Hands-free flush mount station with built-in microphone and speaker.
- XC-9137AVS: Hands-free wall mount station with built-in microphone and speaker.
- Under the circumstance of network interruption, offline two-way voice communication with certain target intercom device is also possible.
- Support PoE (Power over Ethernet).
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for two-way voice communication.
- Work with SPON® XC-9000 audio management software for more features including two-way voice communication and live voice announcements.

### TECHNICAL PARAMETERS

MODEL NO	XC-9137AVE	XC-9137AVS
Power Supply	DC 12V/1.5A or PoE (IEEE802.3af)	
Power Consumption	≤18W	
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Sampling Rate	8kHz-44.1kHz, 16bit	
Video transmission Bit Rate	512Kbps-4Mbps	
Video Coding	GVA/720/1080P	
Transmission Bit Rate	8kbps-320kbps	
S/N (Signal-to-Noise) Ratio	≥81dB	
Frequency Response	200Hz-18kHz	
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Record Output, 1×Power Input	
IP Rating	IP65	
Dimensions	162×100×36mm	162×100×41mm
Weight	1.0kg	1.0kg
Standard Accessories	1×Waterproof Connector, 1×3-Pin Terminal Block Connector, 1×4-Pin Terminal Block Connector, 1×Customer Operational Guideline, 1×Installation Manual	
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)	



XC-9137AVE

XC-9137AVS



## IP POE VIDEO INTERCOM STATION XC-9133AV



### RECOMMENDED USES

XC-9133AV with 7 inch touch screen and High Definition camera for two-way full duplex video communication which can be used for any indoor environment such as office, factory, bank ect.

### KEY FEATURES

- 7" digital HD touch screen (resolution ratio: 1280×800).
- Two-way full duplex video communication with IP video intercom master station in the master control room.
- Hands-free wall mount station with built-in microphone and speaker.
- Built-in HD digital camera with H.264 encoding format.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for two-way voice communication.
- Work with SPON® XC-9000 audio management software for more features including two-way video communication and live voice announcements.
- Three different calling modes for options:
  - a. One-touch Calling. Using the calling buttons on the touch screen to the calling target which set on the web page);
  - b. Dial Calling. Entering target's ID on the numeric keypad to initiate calling.
  - c. Calling list. Call list showing target terminals which can make a quick dial.

### TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A or PoE (IEEE802.3af)
Power Consumption	≤6W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-44.1kHz, 16bit
Transmission Bit Rate	8kbps-320kbps
Video transmission Bit Rate	512Kbps-1Mbps
Video Coding	GVA
S/N (Signal-to-Noise) Ratio	≥84dB
THD (Total Harmonic Distortion)	< 1%
Interface	1×RJ45 Ethernet Port, 2×Relay Input, 2×Relay Output, 1×Power Input
Dimensions	120×231×36mm
Weight	1.0kg
Standard Accessories	1×Waterproof Connector, 1×Mounting Plate, 2×wire Contact Cable, Connector, 1×Warranty Card, 1×Installation Manual
Optional Accessories	DC 24V/1A Power Adapter (US/EU/UK/AU)

## IP POE OUTDOOR VIDEO INTERCOM STATION XC-9135AVE/XC-9135AVS



XC-9135AVE

XC-9135AVS

### RECOMMENDED USES

This IP PoE outdoor Intercom station built-in with 1080P camera for a high quality video communication to any video master station. It supports with IP65 which can be used in any outdoor environment such as building entry or access point communication with visitors and guests.

### KEY FEATURES

- 7" digital HD touch screen (resolution ratio: 1280×800).
- Outdoor weatherproof design, IP rating could reach IP65.
- Two-way full duplex video communication with IP video intercom master station in the master control room.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for two-way voice communication.
- Work with SPON® XC-9000 audio management software for more features including two-way video communication and live voice announcements.
- Three different calling modes for options:
  - a. One-touch Calling. Using the calling buttons on the touch screen to the calling target which set on the web page);
  - b. Dial Calling. Entering target's ID on the numeric keypad to initiate calling.
  - c. Calling list. Call list showing target terminals with can make a quickly dial.
- XC-9135AVE: Hands-free flush mount station with built-in microphone and speaker.
- XC-9135AVS: Hands-free wall mount station with built-in microphone and speaker.

### TECHNICAL PARAMETERS

MODEL NO	XC-9135AVE	XC-9135AVS
Power Supply	DC 12V/1.5A or PoE (IEEE802.3af)	
Power Consumption	≤6W	
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Sampling Rate	8kHz-44.1kHz, 16bit	
Transmission Bit Rate	8kbps-320kbps	
Video transmission Bit Rate	512Kbps-4Mbps	
Video Coding	GVA	
THD (Total Harmonic Distortion)	< 1%	
S/N (Signal-to-Noise) Ratio	≥81dB	
Interface	1×RJ45 Ethernet Port, 2×Relay Input, 2×Relay Output, 1×Power Input	
IP Rating	IP65	
Dimensions	140×283×29mm	
Weight	1.3kg	
Standard Accessories	1×Waterproof Connector, 2×2-Pin Terminal Block Connector, 1×3-Pin Terminal Block Connector, 1×Installation Manual	
Optional Accessories	DC 12V/1.5A Power Adapter (US/EU/UK/AU)	



# IP OUTDOOR INDUSTRIAL VIDEO TELEPHONE XC-9201V

## RECOMMENDED USES

This model has a robust anti-riot property and an aluminum alloy cast casing. Equipped with powerful features are designed specifically for the rough conditions in industrial environments, such as high noise, heavy dust, strong acid, and extreme low or high temperature.



## KEY FEATURES

- Aluminum alloy shell with baking varnish surface treatment (dust-proof/noise-proof/anti-riot/anti-corrosion).
- Outdoor weatherproof design, IP rating could reach IP66.
- Built-in wide-angle HD camera and supports video output in a variety of resolutions.
- Supports the standard ONVIF protocol and outputs video to external platforms for display.
- Two-way full duplex voice communication with IP video intercom master station in the master control room.
- Single-button design for one-touch calling to the designated target intercom device.
- Numeric keypad design for calling to any target intercom device by dialing the target device's ID.
- Hands-free wall mount telephone with built-in microphone and speaker.
- Handset can be used for two-way voice communication in noisy environment.
- Built-in 2×30 watt class-D digital amplifier for driving up to two 8-ohm passive analog speakers.
- Support PoE (Power over Ethernet).
- Work with SPON® XC-9000 audio management software for more features including two-way voice communication and live voice announcements.

## TECHNICAL PARAMETERS

Power Supply	DC 12V/2.7A or PoE (IEEE802.3af)
Power Consumption	≤65W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-44.1kHz, 16bit
Video transmission Bit Rate	16Kbps-2Mbps
Video Coding	GVA/720/1080P
Transmission Bit Rate	8kbps-320kbps
S/N (Signal-to-Noise) Ratio	≥93dB
Frequency Response	25Hz-15kHz
Interface	1×RJ45 Ethernet Port, 1×Relay Output, 2×Speaker Output (8Ω), 1×Power Input
IP Rating	IP66
Dimensions	346×241×125mm
Weight	7.4kg
Standard Accessories	1×Waterproof Connector, 1×Mounting Plate, 1×Installation Manual
Optional Accessories	DC 24V/2.7A Power Adapter IEC C13 Power Cord (US/EU/UK/AU)

# IP OUTDOOR EMERGENCY CALL BOX XC-9241V

## RECOMMENDED USES

XC-9241V with a robust anti-riot property and an aluminum alloy cast casing which dedicated design for alarm assistance in the safe city, safe campus and smart scenic spot etc.



## KEY FEATURES

- Aluminum alloy shell with baking varnish surface treatment (dust-proof/anti-riot/anti-corrosion).
- Outdoor weatherproof design, IP rating could reach IP66.
- Built-in wide-angle 1080P HD camera and supports video output in a variety of resolutions.
- Supports the standard ONVIF protocol and outputs video to external platforms for display.
- Two-way full duplex voice communication with IP video intercom master station in the master control room.
- Single-button design for one-touch calling to the designated target intercom device.
- Hands-free wall mount telephone with built-in microphone and speaker.
- Handset can be used for two-way voice communication in noisy environment.
- Built-in 40 watt class-D digital amplifier for driving up to two 8-ohm passive analog speakers.
- Under the circumstance of network interruption, offline two-way voice communication with certain target intercom device is also possible.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for two-way voice communication.
- Work with SPON® XC-9000 audio management software for more features including two-way voice communication and live voice announcements.
- Tamper alarm functionality enables the device to trigger a warning siren whenever the panel has been forcibly

## TECHNICAL PARAMETERS

Power Supply	DC 24V/2.7A
Power Consumption	≤80W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-44.1kHz, 16bit
Transmission Bit Rate	8kbps-320kbps
Video transmission Bit Rate	16Kbps-2Mbps
Video Coding	H.264
S/N (Signal-to-Noise) Ratio	≥80dB
Frequency Response	100Hz-20KHz(MP3)
Interface	1×RJ45 Ethernet Port, 2×Relay input, 1×Relay Output, 2×Line in put, 2×Line Output, 2×Speaker Output (8Ω), 1×Power Input
IP Rating	IP66
Dimensions	261×120×417mm
Weight	9.5kg
Standard Accessories	1×Waterproof Connector, 1×Power Supply 24V/2.7A 1×Installation Manual
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)



## IP OUTDOOR EMERGENCY CALL BOX XC-9242V



### RECOMMENDED USES

This model with all-metal shell, high-grade brushed aluminum panel with flush mounted in outdoor environment for emergency call in the safe city, safe campus and smart scenic spot etc.

### KEY FEATURES

- All-metal shell, high-grade brushed aluminum panel.
- Outdoor weatherproof design, IP rating could reach IP65.
- Two-way full duplex voice communication with IP audio intercom master station in the master control room.
- Single-button design for one-touch calling to the designated target intercom device.
- Hands-free flush mount station with built-in microphone and speaker.
- Built-in 40 watt class-D digital amplifier for driving up to two 8-ohm passive analog speakers.
- Built-in wide-angle 1080P HD camera and supports video output in a variety of resolutions.
- Supports the standard ONVIF protocol and outputs video to external platforms for display.
- Under the circumstance of network interruption, offline two-way voice communication with certain target intercom device is also possible.
- Work with SPON® XC-9000 audio management software for more features including two-way voice communication and live voice announcements.
- Tamper alarm functionality enables the device to trigger a warning siren whenever the panel has been forcibly damaged.

### TECHNICAL PARAMETERS

Power Supply	DC 24V/2.7A
Power Consumption	≤60W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Sampling Rate	8kHz-44.1kHz, 16bit
Transmission Bit Rate	8kbps-320kbps
Video transmission Bit Rate	512Kbps-4Mbps
Video Coding	VGA/720/1080P
S/N (Signal-to-Noise) Ratio	≥80dB
Frequency Response	100Hz-20KHz(MP3)
Interface	1×RJ45 Ethernet Port, 2×Relay input, 1×Relay Output, 2×Line in put, 1×Line Output, 2×Speaker Output (8Ω/20W), 1×Power Input
IP Rating	IP65
Dimensions	360×252×74mm
Weight	9.5kg
Standard Accessories	1×Waterproof Connector, 4×3-Pin Terminal Block Connector, 2×4-Pin Terminal Block Connector,1×Installation Manual,DC 24V/2.7A Power Adapter
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU) Emergency Pole NAC-17D

## EMERGENCY POLE NAC-17D

### RECOMMENDED USES

This emergency pole work with emergency call box can be used for all outdoor environment to ensure safety. Specially for safe city, safe campus and smart scenic spot etc.

### KEY FEATURES

- Pole design, easy to identify.
- All-metal shell, outdoor weatherproof design, IP rating could reach IP65.
- Equipped with alarm light which can will flashing during intercom.
- Optional for emergency pole with speaker.
- Optional for surveillance poles in two heights.
- Two installation methods: flush mount & wall mount.

### TECHNICAL PARAMETERS

Two surveillance poles	1.5m & 2.5m
Two Installation	Flush mount & Wall mount
Dimensions	2406×260×260mm
Weight	50kg
Standard Accessories	1×Installation Manual
Optional Accessories(Wall mount )	1×Mounting Plate







# IP PAGING ADAPTER



## IP PAGING ADAPTER WITH AMPLIFIER XC-9603

### RECOMMENDED USES

Ideal for integrating your existing legacy analog amplifiers into VoIP telephone system or IP PA system in schools, hospitals, retail stores, office buildings, factories, transport terminals (i.e. airports, railway stations, bus stations) and other public places.



### KEY FEATURES

- All-metal structure, compact and lightweight design, sturdy and durable.
- Easy configuration via user-friendly web interface.
- Line input is available for connecting external music source equipment such as CD player or AM/FM tuner.
- Line output with 600-ohm output impedance can be used for connecting external analog amplifier.
- Dynamic volume control based on the background noise level ensures continuous crystal clear voice intelligibility.
- Built-in 60/2×60 watt class-D digital amplifier for driving up to 4 8-ohm passive analog speakers.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for live voice announcements.
- Work with SPON® audio management software for more features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.
- Offering 1GB local storage for uploading scheduled bell ringing tasks with custom MP3 audio files, specific audio file can be played automatically at the specified time even when the device is offline.

### TECHNICAL PARAMETERS

MODEL NO	XC-9603P06	XC-9603P12
Power Supply	DC 24V/2.7A	DC 24V/5A
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, DHCP, TCP/IP, UDP, ARP, ICMP, IGMP	
Built-In Amplifier	60W/4Ω	2×60W/4Ω
Audio Codec	G.711 A-law, G.711 μ-law, G.729, PCM/L16	
S/N (Signal-to-Noise) Ratio	≥86dB	
Audio Sampling & Bit Rate	8kHz-44.1kHz, 16bit, 8kbps-320kbps	
THD (Total Harmonic Distortion)	≤0.3% at 1kHz	
Frequency Response	50Hz-20kHz	
Interface	1×RJ45 Ethernet Port, 1×Line Input, 1×Line Output, 2×Relay Input, 1×Relay Output, 1×Status Indicator LED Output, 1×Mic Input, 2×Speaker Output, 1×Power Input	
Dimensions	140×71×43mm	
Weight	0.4kg	
Standard Accessories	1×2-Pin Terminal Block Connector, 1×4-Pin Terminal Block Connector, 1×Installation Manual	
Optional Accessories	DC 24V/2.7A Power Adapter IEC C13 Power Cord (US/EU/UK/AU)	DC 24V/5A Power Adapter IEC C13 Power Cord (US/EU/UK/AU)



## MULTI-ZONE IP AUDIO ADAPTER NAS-8504B

### RECOMMENDED USES

Mainly used to convert your existing legacy analog amplifier to IP amplifier, suitable for PA scenarios that need multi-zone feature but utilize the same audio source.



### KEY FEATURES

- 1U rack-mount design with brushed aluminum panel and rugged all-metal housing, sturdy and durable.
- Easy configuration via SPON® self-developed IP audio device configuration tool.
- Line input is available for connecting external music source equipment such as CD player or AM/FM tuner.
- Line output can be used to connect to external analog amplifier for the transmission of the decoded analog audio signal.
- Built-in power output control enables the device to output AC power to the external analog amplifier only when it receives audio signal, this feature could effectively avoid the waste of electricity when the amplifier is idle.
- Unique 8-zone 100-volt constant-voltage audio distribution allows the user to specify certain sub-zones for each voice announcement or background music, perfectly suitable for scenarios that need multi-zone feature but utilize the same audio source.
- Synchronous control of 8 24V DC forced relay output for switching the connected volume controller to the maximum level during emergency notification alerting.
- Work with SPON® audio management software for powerful features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.

### TECHNICAL PARAMETERS

Power Supply	AC 100V-240V 50/60Hz
Network Protocol	TCP/IP, UDP, ARP, ICMP, IGMP
Audio Codec	MP3, PCM/L16, ADPCM
S/N (Signal-to-Noise) Ratio	≥75dB
Audio Sampling & Bit Rate	8kHz-44.1kHz, 16bit, 8kbps-320kbps
THD (Total Harmonic Distortion)	≤0.5% at 1kHz
Frequency Response	60Hz-20kHz
Power Output Capacity	1600W
Interface	1×RJ45 Ethernet Port, 1×Line Input (RCA Jack), 1×Line Output (RCA Jack), 1×Data Port, 8×24V DC Forced Relay Output, 1×8-Zone Speaker Output (100V), 1×100V Amplifier Input, 1×Controlled Power Output, 1×Power Input
Dimensions	483×259×44mm
Weight	3.2kg
Standard Accessories	4×4-Pin Terminal Block Connector, 1×5 ft. RCA 2-Male to 2-Male Audio Cable, 1×IEC C13 Power Cord (AU), 1×Installation Manual
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)

## MULTI-CHANNEL IP AUDIO ADAPTER NBS-2401

### RECOMMENDED USES

This 4-in-1 IP audio adapter has 4 separate I/O channels with 4 separate RJ45 ethernet ports, it could be an ideal choice to integrate your existing legacy analog amplifier into IP PA system in large-scale shopping malls, hotels, transport terminals (i.e. airports, railway stations, bus stations) and other public places.



### KEY FEATURES

- 1U rack-mount design with brushed aluminum panel and rugged all-metal housing, sturdy and durable.
- Easy configuration via user-friendly web interface.
- 4 separate line inputs (one for each channel) are available for connecting external music source equipment such as CD player or AM/FM tuner.
- 4 independent network encoders (one for each channel) for encoding 4 separate channels of analog audio signal, the encoded network audio signals will be transmitted to the server via network and thus transmitted to any other IP audio device in the same IP PA system.
- 4 separate line outputs (one for each channel) can be used to connect to external analog amplifiers for the transmission of the decoded analog audio signal.
- 4 independent network decoders (one for each channel) for decoding 4 separate channels of network audio signal simultaneously, the decoded analog audio signals will be transmitted to external analog amplifier via 4 line outputs.
- Work with SPON® audio management software for powerful features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.

### TECHNICAL PARAMETERS

Power Supply	AC 120V-240V 50/60Hz
Power Consumption	≤20W
Network Protocol	TCP/IP, UDP, ARP, ICMP, IGMP
Audio Codec	MP3, PCM/L16, ADPCM
S/N (Signal-to-Noise) Ratio	≥90dB
Audio Sampling & Bit Rate	22.05kHz-44.1kHz, 16bit, 8kbps-320kbps
THD (Total Harmonic Distortion)	≤0.3% at 1kHz
Frequency Response	100Hz-20kHz
Interface	4×RJ45 Ethernet Port, 4×Line Input, 4×Line Output, 4×Relay Input, 4×Relay Output, 1×Power Input
Dimensions	483×183×44mm
Weight	4.2kg
Standard Accessories	4×4-Pin Terminal Block Connector, 4×5-Pin Terminal Block Connector, 4×5 ft. RCA 2-Male to 2-Bare Wire Audio Cable, 1×Installation Manual
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)





# IP AMPLIFIER



## MULTI-ZONE IP MIXER AMPLIFIER NBS-2301

### RECOMMENDED USES

This unique multi-zone IP amplifier could be a cost-effective choice for schools, hospitals, office buildings, shopping malls and other public places.



### KEY FEATURES

- 2U rack-mount design with rugged all-metal housing, sturdy and durable.
- Easy configuration via user-friendly web interface.
- Fully integrated amplifier with multiple components built into one box, including preamp, network audio decoder, 100-volt constant-voltage digital amplifier, digital mixing console, MP3 player, mic and loudspeaker.
- TFT 4.3" LCD screen, function buttons, bass/treble controls, independent volume controls and peak level indicator LED on the front panel give the user powerful local control on the amplifier.
- Unique 4-zone 100-volt constant-voltage audio distribution allows the user to specify certain sub-zones for each voice announcement or background music.
- Local AOD (Audio-on-Demand): custom WAV or MP3 audio files can be stored in the SD card and played locally.
- Scheduled bell ringing tasks with custom MP3 audio files can be stored in the SD card as well, specific audio file can be played automatically at the specified time even when the amplifier is offline.
- Built-in mic and loudspeaker for two-way audio communication with other IP intercom station in the same system.
- Work with SPON® audio management software for powerful features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.

### TECHNICAL PARAMETERS

MODEL NO	NBS-2301P13	NBS-2301P26	NBS-2301P36	NBS-2301P55	NBS-2301P70
Power Supply	AC 100V-240V 50/60Hz				
Power Consumption	≤170W	≤320W	≤420W	≤650W	≤800W
Rated Power Output	130W	260W	360W	550W	700W
Network Protocol	TCP/IP, UDP, ARP, ICMP, IGMP				
Audio Codec	MP3, PCM/L16, ADPCM				
S/N (Signal-to-Noise) Ratio	Mic Input 1: ≥65dB; Mic Input 2/3: ≥80dB; Line Input 1/2: ≥82dB				
THD (Total Harmonic Distortion)	≤0.5% at 1kHz, 1/2 rated output				
Frequency Response	Mic Input 1: 80Hz-14kHz; Mic Input 2/3: 60Hz-16kHz; Line Input 1/2: 60Hz-16kHz				
Speaker Output	100V (Constant-Voltage) / 8-16Ω (Low-Impedance)				
Interface	1×RJ45 Ethernet Port, 1×SD Card Slot, 3×Mic Input (1/4" TS Jack), 2×Line Input (RCA Jack), 1×Line Output (RCA Jack), 3×Relay Input, 2×Relay Output, 1×4-Zone Speaker Output (100V), 1×4-Zone Speaker Output (100V), 2×Speaker Output (8-16Ω), 1×Speaker Output (100V), 1×Power Input				
Dimensions	483×430×88mm				
Weight	7.5kg				
Standard Accessories	2×6-Pin Terminal Block Connector, 1×Remote Control, 1×Protective Cover, 1×Installation Manual				
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)				

# IP INTEGRATED AMPLIFIER XC-9508

## RECOMMENDED USES

Universally suitable for adding high power paging, scheduled loud ringing and background music to a wide range of applications.



## KEY FEATURES

- 1U rack-mount design with rugged steel housing, sturdy and durable.
- Easy configuration via user-friendly web interface.
- Fully integrated amplifier with multiple components built into one box, including preamp, network audio decoder and 70-volt/100-volt constant-voltage digital amplifier.
- Separate indicator LED (power/status/signal/clip/protection) on the front panel and independent volume adjustment knobs on the back panel give the user powerful local control on the amplifier.
- Complete protection circuits including over-current protection, short-circuit protection, overload protection, thermal protection, lightning protection, surge protection, etc.
- Scheduled bell ringing tasks with custom MP3 audio files can be stored in the FTP server of the amplifier, specific audio file can be played automatically at the specified time even when the amplifier is offline.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for live voice announcements.
- Work with SPON® audio management software for powerful features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.

## TECHNICAL PARAMETERS

MODEL NO	XC-9508P13	XC-9508P26	XC-9508P36	XC-9508P50
Power Supply	AC 100V-240V 50/60Hz			
Power Consumption	≤160W	≤310W	≤420W	≤580W
Rated Power Output	130W	260W	360W	500W
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, DHCP, TCP/IP, UDP, ARP, ICMP, IGMP			
Audio Codec	G.711 A-law, G.711 μ-law, G.729, PCM/L16			
S/N (Signal-to-Noise) Ratio	≥84dB			
THD (Total Harmonic Distortion)	≤0.5% at 1kHz, 1/2 rated output			
Frequency Response	80Hz-18kHz			
Speaker Output	70V/100V (Constant-Voltage)			
Interface	1×RJ45 Ethernet Port, 1×Line Input (Balanced), 1×Line Input (Unbalanced - RCA Jack), 1×Mic Input (1/4" TS Jack), 1×Line Output (RCA Jack), 1×24V DC Forced Relay Output, 1×Relay Input, 1×Relay Output, 1×Speaker Output (70V/100V), 1×Power Input			
Dimensions	440×300×44mm			
Weight	3.45kg			
Standard Accessories	1×4-Pin Terminal Block Connector, 2×5-Pin Terminal Block Connector, 2×Rack Ear, 4×Rubber Foot, 1×Installation Manual			
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)			

# IP WALL MOUNT AMPLIFIER NAS-8505L

## RECOMMENDED USES

This IP wall Mounted Amplifier is mainly designed for office , conference room , classroom ect.



## KEY FEATURES

- All-metal structure, compact and lightweight design, sturdy and durable.
- Easy configuration via user-friendly web interface.
- Line input is available for connecting external music source equipment such as CD player or AM/FM tuner.
- Built-in network audio decoder for decoding digital audio stream into analog audio signal.
- A preamp to provide line input for connecting external music source equipment
- Built-in 2x10 or 2x30 watt class-D digital amplifier for driving up to 4 8-ohm passive analog speakers.
- Work with VoIP telephone system for live voice announcements.
- With a high-speed dual-core(ARM+DSP) chip of industrial grade whose starting-up time is ≤1s.
- Equipped with indication of status light which can display a variety of status of terminals in real time (such as online and offline etc.).

## TECHNICAL PARAMETERS

MODEL NO	NAS-8505L02	NAS-8505L06
Power Supply	DC 24V/1A	DC 24V/2.7A
Power Consumption	≤24W	≤64W
Rated Power Output	2×10W	2×30W
Network Protocol	HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Codec	MP3, PCM/L16, ADPCM	
S/N (Signal-to-Noise) Ratio	≥80dB	
THD (Total Harmonic Distortion)	≤0.3% at 1kHz	
Frequency Response	60Hz-20kHz	
Speaker Output	8Ω (Low-Impedance)	
Interface	1×RJ45 Ethernet Port, 1×Line Input (1/8" TS Jack), 1×Line Output (1/8" TS Jack), 1×Relay Input, 1×Relay Output, 2×Speaker Output (8Ω), 1×Power Input	
Dimensions	156.5×132×36mm	
Weight	0.5kg	0.6kg
Standard Accessories	2×4-Pin Terminal Block Connector, 1×Installation Manual	
Optional Accessories	DC 24V/1A Power Adapter (US/EU/UK/AU)	DC 24V/2.7A Power Adapter IEC C13 Power Cord (US/EU/UK/AU)



# IP WALL MOUNT AMPLIFIER NAS-8505B

## RECOMMENDED USES

This IP wall mounted amplifier is the one which can connect constant-voltage passive speakers , and it can be used in office ,road ect.



## KEY FEATURES

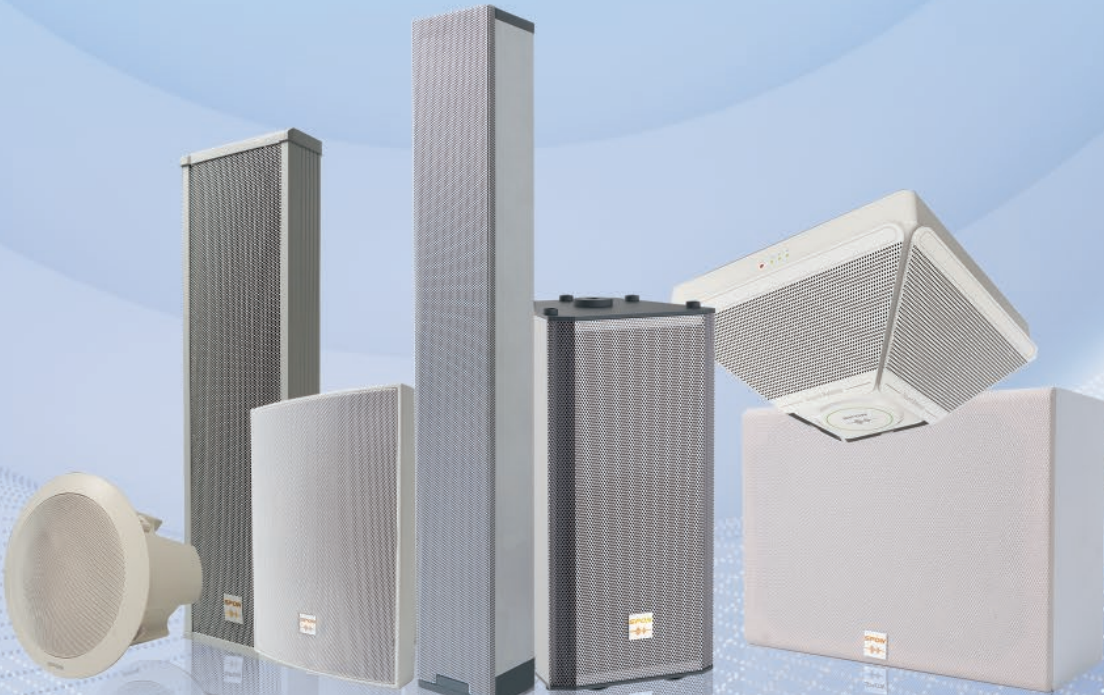
- Easy configuration via user-friendly web interface.
- Line input is available for connecting external music source equipment such as CD player or AM/FM tuner.
- Built-in 60/120 watt class-D digital amplifier for driving up to constant-voltage passive analog speakers.
- Work with VoIP telephone system for live voice announcements.
- Work with SPON® audio management software for more features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.
- With a high-speed dual-core(ARM+DSP) chip of industrial grade whose starting-up time is ≤1s;
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems using together with SPON® audio management software
- Built-in replay input and output can be used for connecting external manual call point ,heat/smoke detectors and LED Strobe light.
- All-metal structure, compact and lightweight design, sturdy and durable.

## TECHNICAL PARAMETERS

MODEL NO	NAS-8505B06	NAS-8505B12
Power Supply	AC 100V-240V 50/60Hz	
Power Consumption	≤75W	≤150W
Rated Power Output	60W	120W
Network Protocol	HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Codec	MP3, PCM/L16, ADPCM	
S/N (Signal-to-Noise) Ratio	≥75dB	
THD (Total Harmonic Distortion)	≤0.3% at 1kHz	
Frequency Response	60Hz-10kHz	
Speaker Output	100V (Constant-Voltage)	
Interface	1×RJ45 Ethernet Port, 1×Line Input (1/8" TS Jack), 1×Line Output (1/8" TS Jack), 1×Relay Input, 1×Relay Output, 2×Speaker Output (100V), 1×Power Input	
Dimensions	337×283.5×50.5mm	
Weight	4.3kg	5.1kg
Standard Accessories	1×4-Pin Terminal Block Connector, 4×Rubber Foot, 1×Installation Manual	
Optional Accessories	Fixed Power Cord (US/EU/UK/AU)	



# IP SPEAKER



## IP OUTDOOR COLUMN LOUDSPEAKER NAS-8507B



### RECOMMENDED USES

Specifically designed for voice announcements and background music in smart pole projects.

### KEY FEATURES

- High-grade aluminum alloy enclosure, suitable for installations in different environments.
- Outdoor weatherproof design, IP rating could reach IP65.
- Easy configuration via user-friendly web interface.
- All-in-one loudspeaker with built-in network audio decoder, class-D digital amplifier and DSP (digital signal processor), ensuring crystal clear voice intelligibility all the time.
- Built-in loop detector for remotely monitoring the loudspeaker’s working condition.
- Scheduled bell ringing tasks with custom MP3 audio files can be stored in the FTP server of the loudspeaker, specific audio file can be played automatically at the specified time even when the loudspeaker is offline.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for live voice announcements.
- Work with SPON® XC-9000 audio management software for powerful features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.

### TECHNICAL PARAMETERS

MODEL NO	NAS-8507B03	NAS-8507B04
Power Supply	DC 24V/2.7A	
Power Consumption	≤40W	≤50W
Rated Power Output	30W	40W
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Codec	MP3, PCM/L16, ADPCM	
Maximum SPL	dB±3dB	
S/N (Signal-to-Noise) Ratio	≥85dB	
Frequency Response	50Hz-20kHz	
Interface	1×RJ45 Ethernet Port, 1×Line Input, 1×Relay Input, 1×Power Input	
IP Rating	IP65	
Dimensions	450×88.1×83.2mm	600×88.1×83.2mm
Weight	2.2kg	2.8kg
Standard Accessories	1×Waterproof Connector, 1×Fixing Bracket, 1×Mounting Bracket, 1×Installation Manual	
Optional Accessories	DC 24V/2.7A Power AdapterIEC C13 Power Cord (US/EU/UK/AU)	

## IP OUTDOOR COLUMN LOUDSPEAKER XC-9601



### RECOMMENDED USES

Ideal for voice announcements, background music and emergency notification alerting in warehouse, factory plant, sea port, outdoor parking lot, bus station, school playground and other outdoor public areas.

### KEY FEATURES

- High-grade aluminum alloy enclosure, suitable for installations in different environments.
- Outdoor weatherproof design, IP rating could reach IP65.
- Easy configuration via user-friendly web interface.
- All-in-one loudspeaker with built-in network audio decoder, class-D digital amplifier and DSP (digital signal processor), ensuring crystal clear voice intelligibility all the time.
- Built-in loop detector for remotely monitoring the loudspeaker’s working condition.
- Integrating the unique feature of “dynamic volume control”, the loudspeaker’s output volume can be automatically adjusted according to the monitored ambient noise level.
- Scheduled bell ringing tasks with custom MP3 audio files can be stored in the FTP server of the loudspeaker, specific audio file can be played automatically at the specified time even when the loudspeaker is offline.
- Specific ringtone file can be stored in the FTP server of the loudspeaker and can be played automatically on the loudspeaker as soon as the relay input is triggered, making emergency notification alerting simpler.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for live voice announcements.
- Work with SPON® XC-9000 audio management software for powerful features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.

### TECHNICAL PARAMETERS

Power Supply	AC 220V 50Hz
Power Consumption	≤63W
Rated Power Output	60W
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Codec	MP3, PCM/L16, ADPCM
Maximum SPL	dB±3dB
S/N (Signal-to-Noise) Ratio	≥90dB
Frequency Response	60Hz-10kHz
Interface	1×RJ45 Ethernet Port, 1×Relay Input, 1×Relay Output, 1×Power Input
IP Rating	IP65
Dimensions	415×161.5×160mm
Weight	5.8kg
Standard Accessories	1×Waterproof Junction Box, 1×Waterproof Connector, 1×Mounting Bracket, 1×Installation Manual
Optional Accessories	Fixed Power Cord (US/EU/UK/AU)



## IP CABINET SPEAKER XC-9602B



### RECOMMENDED USES

Specifically designed for public address and local sound reinforcement in classroom, lecture hall or school auditorium.

### KEY FEATURES

- Bass reflex subwoofer design with 5" woofer and 3" tweeter, ensuring excellent sound reproduction of human voice.
- Easy configuration via user-friendly web interface.
- All-in-one speaker with built-in network audio decoder, class-D digital amplifier and DSP (digital signal processor), ensuring crystal clear voice intelligibility all the time.
- Scheduled bell ringing tasks with custom MP3 audio files can be stored in the FTP server of the speaker, specific audio file can be played automatically at the specified time even when the speaker is offline.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for live voice announcements.
- Work with SPON® XC-9000 audio management software for powerful features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.
- Optional: USB 2.0 port on the back of the speaker can be connected to SEC-M1101A - LED Digital Wall Clock for synchronous time & text display.
- Optional: Auxiliary speaker output (8Ω) on the back of the speaker can be connected to and drive NAC-301H - 30 Watt 8 Ohm Cabinet Speaker.
- Optional: Built-in UHF wireless receiver module can be used together with NAC-5059C-Mini Lavalier Lapel UHF Wireless Microphone for local sound reinforcement in the classroom.

### TECHNICAL PARAMETERS

Power Supply	AC 220V 50Hz
Power Consumption	≤65W
Rated Power Output	2×30W
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Codec	MP3, PCM/L16, ADPCM
Maximum SPL	101dB±3dB
S/N (Signal-to-Noise) Ratio	≥80dB
Frequency Response	35Hz-18kHz
Auxiliary Speaker Output	8Ω (Low-Impedance)
Interface	2×RJ45 Ethernet Port, 1×USB 2.0, 2×Line Input (1/8" TS Jack), 1×Line Output (1/8" TS Jack), 1×Auxiliary Speaker Output (8Ω), 1×Power Input
Dimensions	290×215×117mm
Weight	3.3kg
Standard Accessories	1×8.2 ft. 1/8" Male to Male Audio Cable, 1×Installation Manual
Optional Accessories	Fixed Power Cord (US/EU/UK/AU)

## IP OUTDOOR COLUMN LOUDSPEAKER XC-9603A



### RECOMMENDED USES

Ideal for voice announcements, background music and emergency notification alerting in warehouse, factory plant, sea port, outdoor parking lot, bus station, school playground and other outdoor public areas.

### KEY FEATURES

- High-grade aluminum alloy enclosure, suitable for installations in different environments.
- Outdoor weatherproof design, IP rating could reach IP65.
- Easy configuration via user-friendly web interface.
- All-in-one loudspeaker with built-in network audio decoder, class-D digital amplifier and DSP (digital signal processor), ensuring crystal clear voice intelligibility all the time.
- Built-in loop detector for remotely monitoring the loudspeaker's working condition.
- Integrating the unique feature of "dynamic volume control", the loudspeaker's output volume can be automatically adjusted according to the monitored ambient noise level.
- Scheduled bell ringing tasks with custom MP3 audio files can be stored in the FTP server of the loudspeaker, specific audio file can be played automatically at the specified time even when the loudspeaker is offline.
- Specific ringtone file can be stored in the FTP server of the loudspeaker and can be played automatically on the loudspeaker as soon as the relay input is triggered, making emergency notification alerting simpler.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for live voice announcements.
- Work with SPON® XC-9000 audio management software for powerful features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.

### TECHNICAL PARAMETERS

MODEL NO	XC-9603A03	XC-9603A06	XC-9603A12
Power Supply	AC 220V 50Hz		
Power Consumption	≤40W	≤75W	≤150W
Rated Power Output	30W	60W	120W
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP		
Audio Codec	MP3, PCM/L16, ADPCM		
Maximum SPL	105dB±3dB	108dB±3dB	111dB±3dB
S/N (Signal-to-Noise) Ratio	≥80dB		
Frequency Response	200Hz-18kHz		
Interface	1×RJ45 Ethernet Port, 1×Power Input		
IP Rating	IP65		
Dimensions	440×227×125mm	710×227×125mm	1110×227×125mm
Weight	5.1kg	8.4kg	13.6kg
Standard Accessories	1×Waterproof Connector, 2×Mounting Bracket, 1×Installation Manual		
Optional Accessories	Fixed Power Cord (US/EU/UK/AU)		

## IP POE WALL MOUNT SPEAKER XC-9607

### RECOMMENDED USES

Ideal for voice announcements, background music and emergency notification alerting in schools, hospitals, retail stores, office buildings, factories, transport terminals (i.e. airports, railway stations, bus stations) and other public places.



### KEY FEATURES

- Support wideband G.722 HD audio codec, ensuring high clarity and intelligibility.
- Easy configuration via user-friendly web interface.
- All-in-one speaker with built-in network audio decoder, class-D digital amplifier and DSP (digital signal processor), ensuring crystal clear voice intelligibility all the time.
- Built-in loop detector for remotely monitoring the speaker’s working condition.
- Integrating the unique feature of “dynamic volume control”, the speaker’s output volume can be automatically adjusted according to the monitored ambient noise level.
- Specific ringtone file can be stored in the FTP server of the speaker and can be played automatically on the loudspeaker as soon as the relay input is triggered, making emergency notification alerting simpler.
- Support PoE (Power over Ethernet).
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for live voice announcements.
- Work with SPON® XC-9000 audio management software for powerful features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.

### TECHNICAL PARAMETERS

Power Supply	DC 24V/1A or PoE (IEEE802.3af)
Power Consumption	≤25W
Rated Power Output	20W (at DC 24V/1A powered) 15W (at PoE powered)
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Codec	G.711 A-law, G.711 μ-law, G.722
Maximum SPL	97dB±3dB
S/N (Signal-to-Noise) Ratio	≥80dB
Frequency Response	100Hz-18kHz
Interface	1×RJ45 Ethernet Port, 1×Power Input
Dimensions	292×193×151.5mm
Weight	2.4kg
Standard Accessories	1×2-Pin Terminal Block Connector, 1×Mounting Bracket, 1×Installation Manual
Optional Accessories	DC 24V/1A Power Adapter (US/EU/UK/AU)

## IP POE CEILING SPEAKER XC-9610

### RECOMMENDED USES

Ideal for voice announcements, background music and emergency notification alerting in office building, hospital hall, restaurant, hotel corridor and other indoor public areas.



### KEY FEATURES

- Support wideband G.722 HD audio codec, ensuring high clarity and intelligibility.
- Easy configuration via user-friendly web interface.
- All-in-one speaker with built-in network audio decoder, class-D digital amplifier and DSP (digital signal processor), ensuring crystal clear voice intelligibility all the time.
- Built-in loop detector for remotely monitoring the speaker’s working condition.
- Integrating the unique feature of “dynamic volume control”, the speaker’s output volume can be automatically adjusted according to the monitored ambient noise level.
- Specific ringtone file can be stored in the FTP server of the speaker and can be played automatically on the loudspeaker as soon as the relay input is triggered, making emergency notification alerting simpler.
- Support PoE (Power over Ethernet).
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for live voice announcements.
- Work with SPON® XC-9000 audio management software for powerful features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.

### TECHNICAL PARAMETERS

Power Supply	DC 24V/1A or PoE (IEEE802.3af)
Power Consumption	≤25W
Rated Power Output	20W (at DC 24V/1A powered) 15W (at PoE powered)
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Codec	G.711 A-law, G.711 μ-law, G.722
Maximum SPL	97dB±3dB
S/N (Signal-to-Noise) Ratio	≥80dB
Frequency Response	100Hz-18kHz
Interface	1×RJ45 Ethernet Port, 1×Power Input
Dimensions	Φ213×165mm
Weight	1.4kg
Standard Accessories	1×2-Pin Terminal Block Connector, 1×Installation Manual
Optional Accessories	DC 24V/1A Power Adapter (US/EU/UK/AU)



## IP POE HORN SPEAKER XC-9615

### RECOMMENDED USES

Ideal for voice announcements and emergency notification alerting in warehouse, factory plant, sea port, outdoor parking lot, bus station, school playground and other outdoor public areas.



### KEY FEATURES

- Support wideband G.722 HD audio codec, ensuring high clarity and intelligibility.
- Outdoor weatherproof design, IP rating could reach IP65.
- Easy configuration via user-friendly web interface.
- All-in-one speaker with built-in network audio decoder, class-D digital amplifier and DSP (digital signal processor), ensuring crystal clear voice intelligibility all the time.
- Built-in loop detector for remotely monitoring the speaker's working condition.
- Integrating the unique feature of "dynamic volume control", the speaker's output volume can be automatically adjusted according to the monitored ambient noise level.
- Specific ringtone file can be stored in the FTP server of the speaker and can be played automatically on the loudspeaker as soon as the relay input is triggered, making emergency notification alerting simpler.
- Support PoE (Power over Ethernet).
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for live voice announcements.
- Work with SPON® XC-9000 audio management software for powerful features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.

### TECHNICAL PARAMETERS

Power Supply	DC 24V/2.7A or PoE (IEEE802.3af)
Power Consumption	≤65W
Rated Power Output	20W (at DC 24V/2.7A powered) 15W (at PoE powered)
Network Protocol	SIP 2.0 (RFC 3261), FTP, HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Codec	G.711 A-law, G.711 μ-law, G.722
Maximum SPL	97dB±3dB
S/N (Signal-to-Noise) Ratio	≥80dB
Frequency Response	100Hz-18kHz
Interface	1×RJ45 Ethernet Port, 1×Power Input
IP Rating	IP65
Dimensions	283.1×269×224.3mm
Weight	2.0kg
Standard Accessories	1×2-Pin Terminal Block Connector, 1×Installation Manual
Optional Accessories	DC 24V/2.7A Power Adapter IEC C13 Power Cord (US/EU/UK/AU)

## IP OUTDOOR BLUETOOTH COLUMN LOUDSPEAKER XC-9621A

### RECOMMENDED USES

Ideal for voice announcements, background music and emergency notification alerting in warehouse, factory plant, sea port, outdoor parking lot, bus station, school playground and other outdoor public areas.



### KEY FEATURES

- High-grade aluminum alloy enclosure.
- Outdoor weatherproof design, IP rating could reach IP65.
- Easy configuration via user-friendly web interface.
- Easy configuration via Bluetooth with specific app installed on the smartphone.
- All-in-one speaker with built-in network audio decoder, class-D digital amplifier and DSP (digital signal processor), ensuring crystal clear voice intelligibility all the time.
- Integrating 3 input channels including network audio, line input and Bluetooth audio.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for live voice announcements.
- Work with SPON® XC-9000 audio management software for powerful features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.

### TECHNICAL PARAMETERS

MODEL NO	XC-9621A03	XC-9621A06
Power Supply	DC 24V/1.5A	DC 24V/2.7A
Power Consumption	≤36W	≤65W
Rated Power Output	30W	60W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP	
Audio Codec	MP3, PCM/L16, ADPCM	
Maximum SPL	101dB±3dB	104dB±3dB
S/N (Signal-to-Noise) Ratio	≥83dB	
Frequency Response	45Hz-18kHz	
Interface	1×RJ45 Ethernet Port, 1×Line Input, 1×Relay Input, 1×Power Input	
IP Rating	IP65	
Dimensions	296×140×130mm	436×140×130mm
Weight	1.8kg	2.7kg
Standard Accessories	1×5-Pin Terminal Block Connector, 2×Mounting Bracket, 1×Installation Manual	
Optional Accessories	DC 24V/1.5A Power Adapter (US/EU/UK/AU)	DC 24V/2.7A Power Adapter IEC C13 Power Cord (US/EU/UK/AU)

# IP BLUETOOTH EQUALIZATION CEILING SPEAKER XC-9630A

## RECOMMENDED USES

Specifically designed for public address and local sound reinforcement in classroom, lecture hall or school auditorium.



## KEY FEATURES

- Adopting intelligent audio equalization algorithm, ensuring equalized SPL coverage in the whole classroom.
- Easy configuration via user-friendly web interface.
- Easy configuration via Bluetooth with specific app installed on the smartphone.
- Four-in-one integrated speaker design with 4 independent speakers and 4 independent output channels.
- Output volume of 4 independent output channels can be adjusted independently.
- Line Input (1/8" TS Jack) on the speaker can be connected to external audio source device (smartphone, laptop, tablet, etc.) for background music playback.
- Mixing 4 input channels including network audio, wireless mic, line input and Bluetooth audio.
- Fully compliant 3rd party SIP endpoint, compatible with most mainstream on-premise and cloud/hosted VoIP telephone systems.
- Work with VoIP telephone system for live voice announcements.
- Work with SPON® XC-9000 audio management software for powerful features such as live and scheduled voice announcements, real-time and timed background music, emergency notification alerting, zone paging, etc.
- Optional: Built-in UHF wireless receiver module can be used together with NCS-R40 - Mini Ear-Hook UHF Wireless Microphone or NCS-R41 - Mini Handheld UHF Wireless Microphone for local sound reinforcement in the classroom.

## TECHNICAL PARAMETERS

Power Supply	AC 220V 50Hz
Power Consumption	≤50W
Rated Power Output	4×10W
Network Protocol	SIP 2.0 (RFC 3261), HTTP, TCP/IP, UDP, ARP, ICMP, IGMP
Audio Codec	MP3, PCM/L16, ADPCM
Maximum SPL	105dB±3dB
S/N (Signal-to-Noise) Ratio	≥80dB
Frequency Response	53Hz-18kHz
Interface	1×RJ45 Ethernet Port, 1×Mic Input, 1×Line Input (1/8" TS Jack), 1×Line Output (1/8" TS Jack), 1×Power Input
Dimensions	402×402×208mm
Weight	7.5kg
Standard Accessories	1×Installation Manual
Optional Accessories	Fixed Power Cord (US/EU/UK/AU)



# PERIPHERAL DEVICE





# 8-CHANNEL MIXER PRE-AMPLIFIER NAC-5001

## RECOMMENDED USES

Mainly used to amplify low-level output signals to line level input ,suitable for any PA scenario with multiple audio sources.



## KEY FEATURES

- Standard case design, 1U aluminum alloy panel, user-friendly design, beautiful and practical.
- Equipped with 5×MIC input, 3×AUX input, 2×EMC Line input.
- Equipped with 2×Line output to connect amplifier or other audio terminal.
- MIC 1 with the highest priority level.
- MIC 1 input with broadcast prompt tone ,the volume of prompt tone can be adjusted.
- MIC 2/3/4/5 are XLR and TRS two-in-one interfaces , easy to access different microphone interface.
- The volume for both MIC and AUX input channel can be adjusted independently.
- Mic Input 2/3/4/5 can be switched to supply +48V DC Phantom Power when needed.
- With TREBLE and BASS independent adjustment.
- With 5 audio signal indicator light and 1 overload indicator light to show real time audio signal input situation.

## TECHNICAL PARAMETERS

Power Supply	AC 200V-240V, 50Hz
Power Consumption	≤20W
Frequency Response	20Hz~20kHz
S/N (Signal-to-Noise) Ratio	Mic Input: ≥50dB, Aux Input: ≥80dB
Tone Control (Bass)	±10dB at 100Hz
Tone Control (Treble)	±10dB at 10kHz
THD (Total Harmonic Distortion)	≤0.5% at 1kHz
Interface	1×TS Input Jack (Unbalanced)、4×TS&XLR Input Jack(Unbalanced)、3×Dual RCA AUX Input Jack、2×Dual RCA Emergency Input Jack、2×Dul RCA AUX Output Jack
Dimensions	484×35×44mm
Weight	5.8kg
Standard Accessories	1×Quick Installation Guide、1×Quality Certificate、1×Warranty Card、1×Audio Cable
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)

# IP FIRE ALARM INTERFACE UNIT NAC-5003

## RECOMMENDED USES

Mainly used to integrated with 3rd-party fire alarm system , receive fire alarm signal and trigger fire alarm broadcast , suitable for any PA scenario.



## KEY FEATURES

- Adopting high-speed industrial grade dual-core (ARM+DSP) chip, with start-up time ≤ 3 seconds.
- Equipped with 32×Relay Input interface (supporting short circuit signal input & DC 24V input) for external linkage with fire alarm system.
- Equipped with 8×Relay Output (NO contact) interface to be connected with alarm light to indicate the alarm status.
- Multiple IP fire alarm interface modules can be integrated in the same system to increase the number of alarm input interfaces.
- Being able to send the alarm signal to the server software automatically and apply to the server to implement corresponding task of playing the pre-set emergency evacuation announcement.
- Equipped with standard RJ45 interface, accessible to the system wherever Ethernet is available, supporting cross-segment and cross-router.

## TECHNICAL PARAMETERS

Power Supply	AC185V~260V,50~60Hz
Power Consumption	≤15W
Network Protocol	TCP/IP、UDP、ARP、ICMP、IGMP
Network Chip Rate	10/100Mbps Self-adaptive
Interface	1×RJ45 Ethernet Port、32×Relay Input、8×Relay Output、1×Power Input
Operatiing Temperature	-10℃~+55℃ (14℉~131℉)
Operating Humidity	≤90% RH non-condensing
Dimensions	483×259×44mm
Weight	2.7kg
Standard Accessories	1×Quick Installation Guide、1×Quality Certificate、1×Warranty Card
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)

## IP REMOTE PA CONTROLLER NAS-8510

### RECOMMENDED USES

Mainly used to initiate one-way broadcast, suitable for school playground ,multi-function hall scenario.



### KEY FEATURES

- TFT 4.3" LCD screen, wall mount installation.
- Adopts high-speed industrial dual chips(ARM+DSP) , the start-up times≤1s.
- Provide 6×Mic input , 2×Line input , 1×Line output.
- With 8 programmable keys, preset media source and target zones to achieve one-button broadcasting function.
- Support AOD(Audio-on-demand) function , the media sources can be selected from SPON® audio management software or SD card.
- With an independent volume control knob, the volume of Mic can be adjusted in realtime.
- Multifunctional keys, such as fast forward, fast back, pause, switch mode keys, make the operation more comfortable.
- It can be paired with remote controller to achieve remote control.
- Equipped with standard RJ45 interface, accessible to the system wherever Ethernet is available, supporting cross-segment and cross-router.

### TECHNICAL PARAMETERS

Power Supply	DC12V/2A
Power Consumption	≤5W
Network Protocol	TCP/IP、UDP、ARP、ICMP、IGMP
Network Chip Rate	10/100Mbps Self-adaptive
Audio Codec	MP2/MP3/PCM/ADPCM
Audio Sampling Rate ,Bit Rate	8kHz~44.1kHz ,16bit ,8kbps~320kbps
S/N (Signal-to-Noise) Ratio	≥90dB
Frequency Response	20Hz~16kHz
Interface	1×RJ45 Ethernet Port、6×Mic Input(1/4" TS Jack)、2×Line Input(1/4" TS Jack)、1×Line Output(1/8" TS Jack)、1×SD Card Slot
Dimensions	315×220×44mm
Weight	2.8kg
Standard Accessories	1×Quick Installation Guide、1×Quality Certificate、1×Warranty Card、1×Antnna
Optional Accessories	DC 12V/2A Power Adapter

## IP MINI WALL MOUNT REMOTE PA CONTROLLER XC-9520A

### RECOMMENDED USES

This remote PA controller provides convenient remote PA on demand and volume adjustment functions, suitable for schools, hotels,conference room, and other scenarios.



### KEY FEATURES

- Compact structure & delicate appearance, adopts 86 type box installation.
- Easy configuration via user-friendly web interface.
- Built-in 4-inch capacitive touch screen with 480\*480 resolution.
- With the function of remote broadcast task control and task volume adjustment.
- Support free AOD Mp3 files from the media center of SPON® audio management software.
- Support to obtain the online devices of SPON® audio management software and remotely adjust the volume of the devices.
- Support to obtain the broadcast tasks on the SPON® audio management software and the tasks can be manually triggered.
- Equipped with standard RJ45 interface, accessible to the system wherever Ethernet is available, supporting cross-segment and cross-router.

### TECHNICAL PARAMETERS

Power Supply	AC 100V-240V 50/60Hz
Network Protocol	TCP/IP、UDP、ARP、ICMP、IGMP
Network Chip Rate	10/100Mbps Self-adaptive
Interface	1×RJ45 Ethernet Port、1×RS485 Port(Reserved)、2×AC Power Input Port
Dimensions	86x37.5x86mm
Weight	0.21kg
Standard Accessories	1×Quick Installation Guide、1×Quality Certificate、1×Warranty Card、1×2-Pin Terminal Block Connector
Optional Accessories	IEC C13 Power Cord (US/EU/UK/AU)



SPON

# ANALOG PA SPEAKER



## 6 WATT 100 VOLT CORRIDOR SPEAKER NAC-2302H-6

### RECOMMENDED USES

This type of speaker is widely used in school building corridors to remind students of the beginning of lectures, play audio tasks, and provide background music.

### TECHNICAL PARAMETERS

Speaker Unit	1×6.5" Paper Cone Full Range Speaker
Rated Power Output	3W/6W
Input Voltage	100V
Sensitivity	92dB±2dB
Frequency Response	150Hz-15KHz
Dimensions	275×185×120mm
Weight	1.2kg



## 6 WATT 100 VOLT CORRIDOR SPEAKER NAC-2304

### RECOMMENDED USES

This type of speaker, designed with a lightweight and compact form factor, is commonly utilized in school building corridors to remind students of the beginning of lectures, play audio tasks, and provide background music.

### TECHNICAL PARAMETERS

Speaker Unit	1×5" Paper Cone Full Range Speaker
Rated Power Output	3W/6W
Input Voltage	100V
Sensitivity	91dB±3dB
Frequency Response	150Hz-15KHz
Dimensions	161×161×100mm
Weight	0.8kg



## 30 WATT 100 VOLT WALL MOUNT SPEAKER NAC-2305

### RECOMMENDED USES

The wall-mounted speaker is suitable for large rooms or public areas. This includes the provision of public address systems for terminals in airports, as well as halls in schools and shopping.

### TECHNICAL PARAMETERS

Speaker Unit	1×5" PP Cone Woofer;1×1" PP Cone Tweeter
Rated Power Output	10W/20W/30W
Input Voltage	100V
Sensitivity	90dB±3dB
Frequency Response	70Hz-20KHz
Dimensions	295×196×157mm
Weight	3.6kg



## 30 WATT 8 OHM CABINET SPEAKER NAC-301X

### RECOMMENDED USES

This constant resistance speaker is designed with cabinet style and is commonly used in classrooms for announcements or playing audio tasks.

### TECHNICAL PARAMETERS

Speaker Unit	1× Paper Cone Woofer;1× Paper Cone Tweeter
Rated Power Output	30W
Input Voltage	8Ω
Sensitivity	98dB±3dB
Frequency Response	200Hz-20KHz
Dimensions	310×232×156.5mm
Weight	4.2kg



## 10 WATT 8 OHM WALL MOUNT SPEAKER NAC-301C

### RECOMMENDED USES

This type of speaker is designed with a lightweight and compact form factor, and is commonly used in classrooms for announcements or playing audio tasks.

### TECHNICAL PARAMETERS

Speaker Unit	1×5" Paper Cone Full Range Speaker
Rated Power Output	10W
Input Impedance	8Ω
Sensitivity	90dB±3dB
Frequency Response	200Hz-20KHz
Dimensions	246×157×147mm
Weight	1.0kg



## 30 WATT 8 OHM CABINET SPEAKER NAC-301H

### RECOMMENDED USES

This constant resistance speaker is designed with cabinet style and is commonly used in classrooms for announcements or playing audio tasks.

### TECHNICAL PARAMETERS

Speaker Unit	1× Paper Cone Woofer;1× Paper Cone Tweeter
Rated Power Output	30W
Input Impedance	8Ω
Sensitivity	89dB±3dB
Frequency Response	200Hz-20KHz
Dimensions	290×215×117mm
Weight	2.5kg





## 20/30/40 WATT 100 VOLT WALL MOUNT SPEAKER NAC-710W/NAC-720W/NAC-730W

### RECOMMENDED USES

The wall-mounted speaker is suitable for large rooms or public areas. This includes the provision of public address systems for halls in schools and malls.



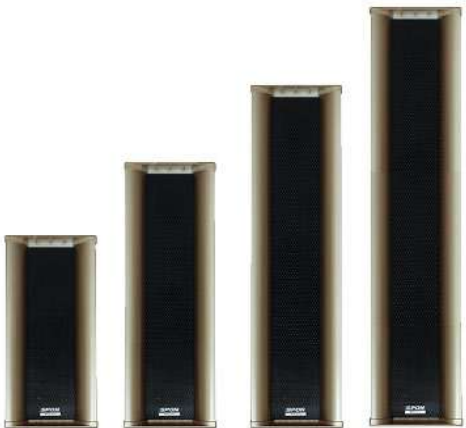
### TECHNICAL PARAMETERS

MODEL NO	NAC-710W	NAC-720W	NAC-730W
Speaker Unit	1×4" PP Cone Woofer 1×1" PP Cone Tweeter		1×6" PP Cone Woofer 1×1" PP Cone Tweeter
Rated Power Output	5W/10W/20W	7.5W/15W/30W	10W/20W/40W
Input Voltage	100V		
Sensitivity	89dB±3dB	91dB±3dB	96dB±3dB
Frequency Response	120Hz-15KHz	130Hz-15KHz	130Hz-15KHz
Dimensions	215×170×150mm	242×182×162mm	300×215×185mm
Weight	2.2kg	3.0kg	3.5kg

## 10/15/25/35 WATT 100 VOLT OUTDOOR COLUMN LOUDSPEAKER NAC-510/NAC-520/NAC-530/NAC-540

### RECOMMENDED USES

This outdoor column loudspeaker comes with various options suitable for different intended uses and area sizes. It is well-suited for playgrounds in schools as well as open areas such as parks.



### TECHNICAL PARAMETERS

MODEL NO	NAC-510	NAC-520	NAC-530	NAC-540
Speaker Unit	1×4" PP Cone Woofer; 1×2.5" PP Cone Tweeter			
Rated Power Output	10W	15W	25W	35W
Input Voltage	100V			
Sensitivity	91dB±3dB	91dB±3dB	93dB±3dB	98dB±3dB
Frequency Response	130Hz-14KHz			
IP Rating	IP65			
Dimensions	295×151×125mm	370×151×125mm	500×151×125mm	610×151×125mm
Weight	2.4kg	3.3kg	4.2kg	5.6kg

## 20/30 WATT 100 VOLT COLUMN LOUDSPEAKER NAC-920/NAC-930

### RECOMMENDED USES

This outdoor column loudspeaker comes with various options suitable for different intended uses and area sizes. It is well-suited for playgrounds in schools as well as open areas such as parks.



### TECHNICAL PARAMETERS

MODEL NO	NAC-920	NAC-930
Speaker Unit	4×2" Paper Cone Full Range Speaker	6×2" Paper Cone Full Range Speaker
Rated Power Output	5W/10W/20W	7.5W/15W/30W
Input Voltage	100V	
Sensitivity	92dB±3dB	94dB±3dB
Frequency Response	200Hz-20KHz	
Dimensions	450×88.1×83.2mm	600×88.1×83.2mm
Weight	2.3kg	3.0kg

40/80/120/160 WATT 100 VOLT OUTDOOR COLUMN LOUDSPEAKER  
NAC-220B/NAC-230B/NAC-240B/NAC-250B

RECOMMENDED USES

This outdoor column loudspeaker comes with various options suitable for different intended uses and area sizes. It is well-suited for playgrounds in schools as well as open areas such as parks.



TECHNICAL PARAMETERS

MODEL NO	NAC-220B	NAC-230B	NAC-240B	NAC-250B
Speaker Unit				
Rated Power Output	40W	80W	120W	160W
Input Voltage	100V			
Sensitivity	91dB±3dB	91dB±3dB	93dB±3dB	98dB±3dB
Frequency Response	80Hz-16KHz			
IP Rating	IP65			
Dimensions	430×250×230mm	665×250×230mm	905×250×230mm	1320×250×230mm
Weight	8.5kg	13.0kg	17.0kg	23.0kg

10 WATT 100 VOLT SPHERICAL SPEAKER  
NAC-2401

RECOMMENDED USES

This speaker is specifically designed to be installed on a ceiling without the need for drilling holes, providing greater convenience and flexibility.

TECHNICAL PARAMETERS

Speaker Unit	1×5" Paper Cone Woofer
Rated Power Output	2.5W/5W/10W
Input Voltage	100V
Sensitivity	91dB±3dB
Frequency Response	130Hz-14KHz
Dimensions	Φ194×170mm
Weight	1.4kg



10 WATT 100 VOLT PENDANT SPEAKER  
NAC-2402

RECOMMENDED USES

This speaker is specifically designed to be installed on a ceiling without the need for drilling holes, providing greater convenience and flexibility.

TECHNICAL PARAMETERS

Speaker Unit	1×5" Paper Cone Woofer
Rated Power Output	2.5W/5W/10W
Input Voltage	100V
Sensitivity	91dB±3dB
Frequency Response	110Hz-13KHz
Dimensions	Φ138×205mm
Weight	1.3kg





## 6 WATT 100 VOLT CEILING SPEAKER NAC-131

### RECOMMENDED USES

This speaker is specifically designed to be installed on a ceiling without the need for drilling holes, providing greater convenience and flexibility.



### TECHNICAL PARAMETERS

Speaker Unit	1×6" Paper Cone Full Range Speaker
Rated Power Output	3W/6W
Input Voltage	100V
Sensitivity	91dB±3dB
Frequency Response	80Hz-18KHz
Ceiling Cut-out	Φ170mm
Dimensions	Φ188×76mm
Weight	0.5kg

## 15/25/35 WATT 100 VOLT CEILING SPEAKER NAC-111/NAC-112/NAC-113

### RECOMMENDED USES

The ceiling speaker has a minimalist and compact design, and its recessed installation allows it to achieve a discreet, hidden effect in limited spaces. It is also suitable for use in media rooms to play background music.



### TECHNICAL PARAMETERS

MODEL NO	NAC-111	NAC-112	NAC-113
Speaker Unit	1×5" PP Cone Woofer	1×6" PP Cone Woofer	1×8" PP Cone Woofer
Rated Power Output	5W/10W/15W	6W/12W/25W	9W/18W/35W
Input Voltage	100V		
Sensitivity	89dB±3dB	91dB±3dB	92dB±3dB
Frequency Response	80Hz-15KHz		
Ceiling Cut-out	170mm	200mm	240mm
Dimensions	Φ203×90mm	Φ230×90mm	Φ270×105mm
Weight	kg	kg	kg

## 6 WATT 100 VOLT CEILING SPEAKER NAC-161C

### RECOMMENDED USES

The ceiling speaker has a minimalist and compact design, and its recessed installation allows it to achieve a hidden effect in limited space.



### TECHNICAL PARAMETERS

Speaker Unit	1×6" Paper Cone Full Range Speaker
Rated Power Output	3W/6W
Input Voltage	100V
Sensitivity	91dB±3dB
Frequency Response	110Hz-13KHz
Ceiling Cut-out	Φ170mm
Dimensions	Φ200×90mm
Weight	0.9kg

## 15/25/35 WATT 100 VOLT CEILING SPEAKER NAC-111C/NAC-112C/NAC-113C

### RECOMMENDED USES

The ceiling speaker has a minimalist and compact design, and its recessed installation allows it to achieve a discreet, hidden effect in limited spaces. It is also suitable for use in media rooms to play background music.



### TECHNICAL PARAMETERS

MODEL NO	NAC-111C	NAC-112C	NAC-113C
Speaker Unit	1×5" PP Cone Woofer	1×6" PP Cone Woofer	1×8" PP Cone Woofer
Rated Power Output	5W/10W/15W	6W/12W/25W	9W/18W/35W
Input Voltage	100V		
Sensitivity	89dB±3dB	91dB±3dB	92dB±3dB
Frequency Response	80Hz-15KHz		
Ceiling Cut-out	170mm	200mm	240mm
Dimensions	Φ203×145mm	Φ230×150mm	Φ270×185mm
Weight	1.7kg	2.2kg	2.9kg

## 30 WATT 100 VOLT HORN SPEAKER NAC-2503

RECOMMENDED USES

This horn speaker is specifically designed for outdoor use and is perfect for amplifying sound in large open areas, such as school playgrounds and parks.

TECHNICAL PARAMETERS

Speaker Unit	
Rated Power Output	15W/30W
Input Voltage	100V
Sensitivity	113dB±2dB
Frequency Response	250Hz-8KHz
IP Rating	IP65
Dimensions	285×285×210mm
Weight	1.8kg



## 150 WATT 120 VOLT HORN SPEAKER NAC-2505

RECOMMENDED USES

This horn speaker is specifically designed for outdoor use and is perfect for amplifying sound in large open areas, such as school playgrounds outdoor stadiums, public parks, convention centers.

TECHNICAL PARAMETERS

Speaker Unit	
Rated Power Output	150W
Input Voltage	120V
Sensitivity	108dB±3dB
Frequency Response	200Hz-7KHz
IP Rating	IP65
Dimensions	560×560×555mm
Weight	12.8kg



## 30 WATT 8 OHM HORN SPEAKER NAC-2503LI

RECOMMENDED USES

This constant resistance horn speaker is specifically designed for outdoor use and is perfect for amplifying sound in large open areas, such as school playgrounds and parks.

TECHNICAL PARAMETERS

Speaker Unit	
Rated Power Output	30W
Input Voltage	8Ω
Sensitivity	113dB±2dB
Frequency Response	250Hz-8KHz
IP Rating	IP65
Dimensions	285×285×210mm
Weight	1.8kg



## 50 WATT 100 VOLT HORN SPEAKER NAC-2506

RECOMMENDED USES

This horn speaker is specifically designed for outdoor use and is perfect for amplifying sound in large open areas, such as school playgrounds outdoor stadiums, public parks, convention centers.

TECHNICAL PARAMETERS

Speaker Unit	
Rated Power Output	50W
Input Voltage	100V
Sensitivity	99dB±3dB
Frequency Response	90Hz-20KHz
IP Rating	IP65
Dimensions	362×252×310mm
Weight	3.6kg





## 200 WATT 100 VOLT HORN SPEAKER NAC-2508

### RECOMMENDED USES

This horn speaker is specifically designed for outdoor use and is perfect for amplifying sound in large open areas, such as school playgrounds outdoor stadiums, public parks, convention centers, and outdoor concert venues.

### TECHNICAL PARAMETERS

Speaker Unit	
Rated Power Output	200W
Input Voltage	100V
Sensitivity	110dB±3dB
Frequency Response	120Hz-18KHz
IP Rating	IP65
Dimensions	540×460×700mm
Weight	25.0kg



## 50 WATT 100 VOLT HORN SPEAKER NAC-2510

### RECOMMENDED USES

This horn speaker is specifically designed for outdoor use and is perfect for amplifying sound in large open areas, such as school playgrounds and parks.

### TECHNICAL PARAMETERS

Speaker Unit	
Rated Power Output	25W/50W
Input Voltage	100V
Sensitivity	109dB±3dB
Frequency Response	380Hz-6.5KHz
IP Rating	IP65
Dimensions	325×325×350mm
Weight	2.6kg



## 15 WATT 8 OHM HORN SPEAKER NAC-2509

### RECOMMENDED USES

This horn speaker is specifically designed for outdoor use and is perfect for amplifying sound in large open areas, such as school playgrounds and parks.

### TECHNICAL PARAMETERS

Speaker Unit	
Rated Power Output	15W
Input Voltage	8Ω
Sensitivity	106dB±3dB
Frequency Response	380Hz-8KHz
IP Rating	IP65
Dimensions	220×250×170mm
Weight	1.2kg



## 25 WATT 8 OHM HORN SPEAKER NAC-2511

### RECOMMENDED USES

This constant resistance horn speaker is specifically designed for outdoor use and is perfect for amplifying sound in large open areas, such as school playgrounds and parks.

### TECHNICAL PARAMETERS

Speaker Unit	
Rated Power Output	25W
Input Voltage	8Ω
Sensitivity	112dB±3dB
Frequency Response	180Hz-7.5KHz
IP Rating	IP65
Dimensions	500×500×415mm
Weight	2.7kg



## 30 WATT 100 VOLT ROCK SPEAKER NAC-2601

### RECOMMENDED USES

This speaker is specifically designed for outdoor use in parks and open grassy areas, with an ecological and simulation design.

### TECHNICAL PARAMETERS

Speaker Unit	1×6.5" Coaxial PP Cone Speaker
Rated Power Output	15W/30W
Input Voltage	100V
Sensitivity	95dB±3dB
Frequency Response	120Hz-16KHz
IP Rating	IP66
Dimensions	330×270×250mm
Weight	5.0kg



## 30 WATT 100 VOLT LAWN SPEAKER NAC-2604

### RECOMMENDED USES

This outdoor speaker is designed specifically for use in kindergartens and theme parks.

### TECHNICAL PARAMETERS

Speaker Unit	3×5" PP Cone Woofer; 2×2" PP Cone Tweeter
Rated Power Output	15W/30W
Input Voltage	100V
Sensitivity	95dB±3dB
Frequency Response	120Hz-15KHz
IP Rating	IP66
Dimensions	Φ370×395mm
Weight	4.2kg



## 40 WATT 100 VOLT ROCK SPEAKER NAC-2603

### RECOMMENDED USES

This speaker is specifically designed for outdoor use in parks and open grassy areas, with an ecological and simulation design.

### TECHNICAL PARAMETERS

Speaker Unit	2×6.5" Coaxial PP Cone Speaker
Rated Power Output	20W/40W
Input Voltage	100V
Sensitivity	98dB±3dB
Frequency Response	120Hz-15KHz
IP Rating	IP66
Dimensions	510×335×273mm
Weight	6.2kg



## 25 WATT 100 VOLT LAWN SPEAKER NAC-2605

### RECOMMENDED USES

This speaker is specifically designed for outdoor use in parks and open grassy areas.

### TECHNICAL PARAMETERS

Speaker Unit	1×6.5" Coaxial PP Cone Speaker
Rated Power Output	15W/25W
Input Voltage	100V
Sensitivity	95dB±3dB
Frequency Response	120Hz-15KHz
IP Rating	IP66
Dimensions	Φ295×385mm
Weight	7.0kg





## 25 WATT 100 VOLT IN-GROUND LANDSCAPE SPEAKER NAC-2606

### RECOMMENDED USES

This speaker is specifically designed for outdoor use in parks and open grassy areas.

### TECHNICAL PARAMETERS

Speaker Unit	1×6.5" Coaxial PP Cone Speaker
Rated Power Output	25W
Input Voltage	100V
Sensitivity	96dB±3dB
Frequency Response	100Hz-15KHz
IP Rating	IP66
Dimensions	Φ240×430mm
Weight	4.8kg



## 20 WATT 100 VOLT ROCK SPEAKER NAC-2607

### RECOMMENDED USES

This speaker is specifically designed for outdoor use in parks and open grassy areas, with an ecological and simulation design.

### TECHNICAL PARAMETERS

Speaker Unit	1×5" Coaxial PP Cone Speaker
Rated Power Output	10W/20W
Input Voltage	100V
Sensitivity	91dB±3dB
Frequency Response	120Hz-16KHz
IP Rating	IP66
Dimensions	210×210×200mm
Weight	3.3kg



## WIRED/WIRELESS MICROPHONE



# HANDHELD DYNAMIC VOCAL MICROPHONE

## TA-60

### RECOMMENDED USES

Ideal choice for professional vocal use in public speech, live performance and podcast.

### KEY FEATURES

- All-metal structure, modern and durable design.
- Rugged zinc alloy body & high-strength brazed steel mesh grille.
- Ergonomic handle design for comfortable grip and better user experience.
- Ultra-wide frequency response tailored for vocals, ensures crystal clear voice intelligibility.
- Supercardioid pickup pattern effectively isolates unwanted background noise and nearby sound sources, thus minimizes feedback.
- Built-in acoustic pop filter keeps wind and plosives out of the mix.
- Internal shock-mount protection isolates the microphone from vibrations, cuts down handling noise.
- Noiseless ON/OFF switch.
- Supplied with 20 ft. XLR female to 1/4" male audio cable.
- Perfect for professional vocal use in public speech, live performance and podcast.



### TECHNICAL PARAMETERS

Mic Type	Dynamic (Moving Coil)
Body Material	Zinc Alloy
Mesh Grille Material	Brazed Steel
Pickup Pattern	Supercardioid
Frequency Response	20Hz-18KHz
Sensitivity	-51dB±3dB (0dB=1V/Pa at 1KHz)
Output Impedance	350Ω±30% (at 1KHz)
Connector	XLR (Male)
Weight	0.35kg
Standard Accessories	1×20 ft. XLR Female to 1/4" Male Audio Cable / 1×Storage Bag / 1×User Manual
Optional Accessories	L7-Microphone Desktop Tripod; TS-35-Microphone Boom Arm; ST-1000-Microphone Floor Stand

# MICROPHONE DESKTOP TRIPOD

## L7

### KEY FEATURES

- Mainly installed at broadcast studio.
- Made of high-quality ABS plastic, practical & durable.
- Foldable ABS plastic tripod legs on the base provide stability for the microphone.
- Adjustable height range from 20.5-29cm.
- 180°rotatable microphone clip with anti-slip feature avoids unexpected slip of the microphone.
- Item Weight: 0.1kg.



# MICROPHONE BOOM ARM

## TS-35



### KEY FEATURES

- Mainly installed at broadcast studio.
- Made of solid & durable steel.
- Fully adjustable in all joints.
- Upgraded table clamp ensures that the microphone can be fixed tightly on the desk.
- Strong loading capacity ensures that this heavy duty stand will hold your microphone tightly without dropping or shaking.
- Flexible microphone clip with up to 180° rotation angle.

# MICROPHONE FLOOR STAND

## ST-1000

### KEY FEATURES

- Mainly installed at auditorium.
- Sturdy & durable steel structure.
- Adjustable height range from 90-180cm.
- Adjustable long boom arm with molded plastic counterweight.
- Tripod stand with rubber feet reduces floor vibration and protects bare-floor surface.
- Clip-on cable holders for neatly attaching microphone cable along the stand.
- Item Weight: 3.4kg.





## DESKTOP PAGING MICROPHONE WITH CHIME NAC-522A

### RECOMMENDED USES

Mainly installed at broadcast studio or reception area for making general voice announcements in a PA system.



### KEY FEATURES

- Modern design desktop unidirectional condenser microphone on a flexible stem.
- High-grade aluminum alloy shell, sturdy and durable.
- Rubber feet on the metal base ensure its stability on any flat surface.
- Big round button on the center of the device acts as a toggle for voice announcement (press to switch on, press again to switch off).
- Touch button design (big round button), no noise of keypress, easy to be cleaned or disinfected.
- Bi-colour (red/green) backlight on the touch button indicates the operating status of the device.
- When pressing the touch button to activate the paging mic, the voice announcement will be preceded by a chime.
- ON/OFF switch on the back panel for enabling/disabling the chime.

### TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A
Standby Power Consumption	≤3W
Mic Type	Condenser
Shell Material	Aluminum Alloy
Pickup Pattern	Unidirectional
S/N (Signal-to-Noise) Ratio	≥80dB
Frequency Response	100Hz-16KHz
Interface	1×Line Output (1/8" TS Jack), 1×Line Output (1/4" TS Jack), 1×Power Input
Dimensions	144×144×34.1mm
Weight	0.55kg
Standard Accessories	1×8.2 ft. 1/8" Male to Male Audio Cable / 1× ft. 1/4" Male to Male Audio Cable 1×IM-380 - Gooseneck Microphone Stem / 1×Installation Manual
Optional Accessories	DC 12V/1.5A Power Adapter (Optional Types: US/EU/UK/AU)

## MINI UHF WIRELESS RECEIVER NAC-5059A

### RECOMMENDED USES

Mainly installed at broadcast studio or reception area for making general voice announcements in a PA system.



### KEY FEATURES

- Flame-retardant ABS plastic shell.
- Circular working status indicator light.
- Noise-canceling function effectively suppresses feedback.
- The presence of built-in speech processing chips enables the active speaker to be connected.
- External antenna transmits over longer distances with strong anti-interference capabilities.
- allowing for the adjustment of high and low frequencies, as well as volume.

### TECHNICAL PARAMETERS

Power Supply	DC 12V/1.5A
Standby Power Consumption	≤3W
S/N (Signal-to-Noise) Ratio	≥88dB
Full Frequency Range	20Hz-20KHz
Interface	1×Line Input (1/8" TS Jack), 1×Line Output (1/8" TS Jack), 1×Line Output (1/4" TS Jack), 1×BNC Antenna Port, 1×Power Input
Dimensions	215×125×37mm
Weight	0.3kg
Standard Accessories	1×UHF Rod Antenna / 1×Installation Manual
Optional Accessories	DC 12V/1.5A Power Adapter (Optional Types: US/EU/UK/AU)

## MINI LAVALIER LAPEL UHF WIRELESS MICROPHONE NAC-5059C

### RECOMMENDED USES

Primarily designed as a wireless portable audio microphone for use in classrooms or offices, making it easy to carry around.



### KEY FEATURES

- Flame-retardant material
- Upon power-on, it automatically searches for the channel and pairs automatically, with the ability to prevent frequency interference and resist interference by USW frequency band.
- A built-in algorithm is specifically designed for a certain frequency range. The middle frequency range is optimized for better sound clarity and feedback suppression, resulting in a more comfortable listening experience.
- Type-C interface allows for charging, audio input and headphones connections.
- a built-in high-capacity lithium battery allows for over 10 hours of continuous use.

### TECHNICAL PARAMETERS

Power Supply	Battery(Lithium Polymer 550mAH)
Standby Power Consumption	<0.04W
S/N (Signal-to-Noise) Ratio	≤83dB
Full Frequency Range	350Hz-8KHz
Interface	1×USB-C
Dimensions	100×30×17.8mm
Weight	0.05kg
Standard Accessories	1×USB-C Male to 1/8" Female Headphone Jack Adapter / 1×USB-C Male to USB-A Male Charger Cable / 1×Headset / 1×Lanyard / 1×Installation Manual

## MINI EAR-HOOK UHF WIRELESS MICROPHONE NCS-R40

### KEY FEATURES

- Used in three different ways: ear-hook, collar clip, and handhold. Users can switch between these methods freely.
- Upon power-on, it automatically searches for the channel and pairs automatically.
- The Infrared connection prevents frequency interference and resist interference.



## MINI HANDHELD UHF WIRELESS MICROPHONE NCS-R41

### KEY FEATURES

- Supports 3.5mm audio input and microphone input;
- Newly designed noise elimination circuitry can eliminate power on/off shock noise;
- OLED high-definition liquid crystal display, which displays signal strength, frequency pairing mode, battery level (charging display), working channel, volume, and frequency pairing mode.
- Automatically shuts down within 60 minutes when there is no signal input, energy-saving and environmentally friendly.





# TRUE DIVERSITY HANDHELD UHF WIRELESS MICROPHONE KIT NAC-5019

## RECOMMENDED USES

Suitable for professional vocal use in house of worship, school auditorium, lecture hall, outdoor playground and many other application environments.



## KEY FEATURES

- Sturdy and durable all-metal structure for both receiver and handheld transmitters.
- True diversity circuit design effectively eliminates feedback and cutoff for flawless sound transmission.
- Unimpeded and stable wireless coverage extends to 196 ft. (60 meters) without interference, dropout and cutoff.
- Handheld transmitters utilize cardioid pickup pattern to isolate unwanted ambient noise and reproduce pristine, high-fidelity sound.
- Featuring 400 selectable frequencies across 50MHz bandwidth for interference-free performance.
- Handheld transmitters can be set to any of the 400 UHF frequencies and are powered by two AA alkaline batteries for 8 hours of continuous operation.
- Smooth IR synchronization enables hassle-free setup process and ensures that you can pair up the receiver and the handheld transmitters within seconds.
- Advanced auto-scan function serves as automatic frequency management by precisely scanning the entire RF environment and locating the best available frequency nearby.
- Two XLR balanced outputs for each channel and one 1/4" TS unbalanced mixed output for combined audio.

## TECHNICAL PARAMETERS

Power Supply	DC 12V/0.5A
Oscillation Mode	Phase Locked Loop (PLL) Synthesizer
Frequency Stability	0.005%
Frequency Range	640MHz-690MHz UHF
Selectable Frequencies	400 Frequencies
Diversity Mode	True Diversity
S/N (Signal-to-Noise) Ratio	≥105dB
THD	≤0.5% (at 1KHz)
Frequency Response	50Hz-18KHz
Sensitivity	≥80dB (6dBμV Input, 40KHz Deviation)
Interface	2×Balanced Output (XLR Jack), 1×Unbalanced Mixed Output (1/4" TS Jack), 2×BNC Antenna Port, 1×Power Input
Dimensions	425×175×43mm
Weight	4.5kg
Standard Accessories	2×Handheld Transmitters / 1× ft. 1/4" Male to Male Audio Cable / 2×BNC Antenna / 1×Installation Manual
Optional Accessories	DC 12V/0.5A Power Adapter (Optional Types: US/EU/UK/AU)

# TRUE DIVERSITY LAVALIER LAPEL UHF WIRELESS MICROPHONE KIT NAC-5019B

## RECOMMENDED USES

Suitable for professional vocal use in house of worship, school auditorium, lecture hall, outdoor playground and many other application environments.



## KEY FEATURES

- All-metal structure for the receiver, environmentally-friendly ABS plastic shell for the bodypack transmitters.
- True diversity circuit design effectively eliminates feedback and cutoff for flawless sound transmission.
- Unimpeded and stable wireless coverage extends to 196 ft. (60 meters) without interference, dropout and cutoff.
- Featuring 400 selectable frequencies across 50MHz bandwidth for interference-free performance.
- Bodypack transmitters can be set to any of the 400 UHF frequencies and are powered by two AA alkaline batteries for 8 hours of continuous operation.
- Smooth IR synchronization enables hassle-free setup process and ensures that you can pair up the receiver and the bodypack transmitters within seconds.
- Advanced auto-scan function serves as automatic frequency management by precisely scanning the entire RF environment and locating the best available frequency nearby.
- Two XLR balanced outputs for each channel and one 1/4" TS unbalanced mixed output for combined audio.
- Offering two types of microphones (lavalier lapel mic/headset mic) for different applications.

## TECHNICAL PARAMETERS

Power Supply	DC 12V/0.5A
Oscillation Mode	Phase Locked Loop (PLL) Synthesizer
Frequency Stability	0.005%
Frequency Range	640MHz-690MHz UHF
Selectable Frequencies	400 Frequencies
Diversity Mode	True Diversity
S/N (Signal-to-Noise) Ratio	≥105dB
THD	≤0.5% (at 1KHz)
Frequency Response	50Hz-18KHz
Sensitivity	≥80dB (6dBμV Input, 40KHz Deviation)
Interface	2×Balanced Output (XLR Jack), 1×Unbalanced Mixed Output (1/4" TS Jack), 2×BNC Antenna Port, 1×Power Input
Dimensions	425×175×43mm
Weight	4.5kg
Standard Accessories	2×Bodypack Transmitters / 2×Lavalier Lapel Microphone / 1× ft. 1/4" Male to Male Audio Cable / 2×BNC Antenna / 1×Installation Manual
Optional Accessories	NAC-5019B-T-Headset Microphone; DC 12V/0.5A Power Adapter (Optional Types: US/EU/UK/AU)

# 4-CHANNEL HANDHELD UHF WIRELESS MICROPHONE KIT LCS-2338

## RECOMMENDED USES

Suitable for professional vocal use in house of worship, school auditorium, lecture hall, outdoor playground and many other application environments.



## KEY FEATURES

- Sturdy and durable all-metal structure for both receiver and handheld transmitters.
- Unimpeded and stable wireless coverage extends to 262 ft. (80 meters) without interference, dropout and cutoff.
- Handheld transmitters utilize cardioid pickup pattern to isolate unwanted ambient noise and reproduce pristine, high-fidelity sound.
- 4-channel design with 4×100 selectable frequencies in 500MHz-900MHz UHF frequency band, each channel has 100 selectable frequencies with 250KHz increment.
- Handheld transmitters can be set to any of the 4×100 UHF frequencies and are powered by two AA alkaline batteries for 8 hours of continuous operation.
- Maximum 10 receivers & 40 handheld transmitters can be linked up simultaneously.
- Smooth IR synchronization enables hassle-free setup process and ensures that you can pair up the receiver and the handheld transmitters within seconds.
- Advanced auto-scan function serves as automatic frequency management by precisely scanning the entire RF environment and locating the best available frequency nearby.
- Two XLR balanced outputs for each two channels and one 1/4" TS unbalanced mixed output for combined audio.

## TECHNICAL PARAMETERS

Power Supply	DC 12V/1A
Oscillation Mode	Phase Locked Loop (PLL) Synthesizer
Modulation Mode	FM
Working Distance	262 ft. (80 meters)
Frequency Stability	0.001%
Frequency Range	500MHz-900MHz UHF
Selectable Frequencies	4×100 Frequencies
S/N (Signal-to-Noise) Ratio	≥60dB
THD	≤0.5% (at 1KHz)
Frequency Response	40Hz-20KHz
Interface	2×Balanced Output (XLR Jack), 1×Unbalanced Mixed Output (1/4" TS Jack), 2×BNC Antenna Port, 1×Power Input
Dimensions	420×220×44mm
Weight	7.5kg
Standard Accessories	4×Handheld Transmitters / 4×Anti-rolling Ring / 1× ft. 1/4" Male to Male Audio Cable / 2×BNC Antenna / 2×Rack Ear / 1×Installation Manual
Optional Accessories	DC 12V/1A Power Adapter (Optional Types: US/EU/UK/AU)

# 4-CHANNEL LAVALIER LAPEL UHF WIRELESS MICROPHONE KIT LCS-2338B

## RECOMMENDED USES

Suitable for professional vocal use in house of worship, school auditorium, lecture hall, outdoor playground and many other application environments.



## KEY FEATURES

- All-metal structure for the receiver, environmentally-friendly ABS plastic shell for the bodypack transmitters.
- Unimpeded and stable wireless coverage extends to 262 ft. (80 meters) without interference, dropout and cutoff.
- 4-channel design with 4×100 selectable frequencies in 500MHz-900MHz UHF frequency band, each channel has 100 selectable frequencies with 250KHz increment.
- Bodypack transmitters can be set to any of the 4×100 UHF frequencies and are powered by two AA alkaline batteries for 8 hours of continuous operation.
- Maximum 10 receivers & 40 bodypack transmitters can be linked up simultaneously.
- Smooth IR synchronization enables hassle-free setup process and ensures that you can pair up the receiver and the bodypack transmitters within seconds.
- Advanced auto-scan function serves as automatic frequency management by precisely scanning the entire RF environment and locating the best available frequency nearby.
- Two XLR balanced outputs for each two channels and one 1/4" TS unbalanced mixed output for combined audio.
- Offering two types of microphones (lavalier lapel mic/headset mic) for different applications.

## TECHNICAL PARAMETERS

Power Supply	DC 12V/1A
Oscillation Mode	Phase Locked Loop (PLL) Synthesizer
Modulation Mode	FM
Working Distance	262 ft. (80 meters)
Frequency Stability	0.001%
Frequency Range	500MHz-900MHz UHF
Selectable Frequencies	4×100 Frequencies
S/N (Signal-to-Noise) Ratio	≥60dB
THD	≤0.5% (at 1KHz)
Frequency Response	40Hz-20KHz
Interface	2×Balanced Output (XLR Jack), 1×Unbalanced Mixed Output (1/4" TS Jack), 2×BNC Antenna Port, 1×Power Input
Dimensions	420×220×44mm
Weight	7.5kg
Standard Accessories	4×Bodypack Transmitters / 4×Lavalier Lapel Microphone / 1× ft. 1/4" Male to Male Audio Cable / 2×BNC Antenna / 2×Rack Ear / 1×Installation Manual
Optional Accessories	LCS-2338B-T - Headset Microphone; DC 12V/1A Power Adapter (Optional Types: US/EU/UK/AU)



## UHF WIDEBAND ANTENNA DISTRIBUTOR SAP-ANT20

### RECOMMENDED USES

This wide-compatible antenna distributor is designed to be used in conjunction with UHF wireless microphone systems, it helps stretching the power of your antenna pairs, giving your wireless mic setup more potential for efficient deployment and smooth wireless transmission, ideal for stage performances, live shows and other outdoor events.



### KEY FEATURES

- All-metal structure, sturdy and durable.
- Compatible with most wireless microphone systems with a wide RF frequency range from 500MHz to 850MHz.
- 4 DC 12V/1.2A power outputs to charge up to 4 wireless receivers and thus to organize the cabling to simplify your rack-mount setup.
- 8 RF outputs to accommodate up to 4 wireless receivers to simplify your antennas setup.
- A pair of cascade ports can also involve one extra wireless receiver in operation.
- This pair of cascade ports can also be used to connect another SAP-ANT20 antenna distributor for multiple setups with more wireless receivers.
- This antenna distributor can extend the extra long-range wireless coverage up to 160 ft. (50 meters).
- Compatible with SAP-ZQS20 antenna paddles to set up the entire antenna distribution system.
- Designed for avoiding signal interference and dropouts.

### TECHNICAL PARAMETERS

Power Supply	DC 12V-15V/5A
Frequency Range	500MHz-850MHz UHF
Antenna Connector Type	TNC
Input/Output Impedance	50Ω
Power Output	DC 12V/1.2A
Interface	4×DC 12V/1.2A Power Output / 2× Antenna Input (A/B) / 2×Cascade Port / 8×RF Output / 1×Power Input
Dimensions	480×180×45mm
Weight	1.8kg
Standard Accessories	1×DC 12V/5A Power Adapter / 4×DC Power Cord / 8×20 in. TNC Cable / 8×BNC Male to TNC Female Coaxial Adapter / 2×Rack Ear / 1×Installation Manual
Optional Accessories	IEC C13 Power Cord (Optional Types: US/EU/UK/AU)

## UHF ACTIVE DIRECTIONAL ANTENNA PADDLE SAP-ZQS20

### KEY FEATURES

- Compatible with most wireless microphone systems with a wide RF frequency range from 500MHz to 850MHz.
- This directional antenna paddle utilizes a log-periodic array to enhance the rejection of RF signals outside the coverage area.
- Adjustable gain settings with up to 18dB gain compensates for any signal loss and reduces the likelihood of system dropouts.
- Visualized LCD screen helps to realize hassle-free setup.
- This directional antenna paddle can extend the extra long-range wireless coverage up to 160 ft. (50 meters).
- Designed for avoiding signal interference and dropouts.



### TECHNICAL PARAMETERS

Power Supply	DC 6V-10V (supplied via TNC antenna port)
Current Consumption	Approx. 60mA
Frequency Range	500MHz-850MHz UHF
Antenna Type	Log-Periodic Array
Antenna Connector Type	TNC
Output Impedance	50Ω
Antenna Gain	Maximum 18dB
Dimensions	302×252×23mm
Weight	0.4kg
Standard Accessories	2×Mounting Bracket / 2×13 ft. TNC Cable / 2×BNC Male to TNC Female Coaxial Adapter / 1×Installation Manual

## TWO-WAY PASSIVE ANTENNA SPLITTER SAP-HLQ20



### KEY FEATURES

- Specifically designed for RF antenna installations.
- This passive antenna splitter splits an incoming signal into two outgoing signals, or combines two incoming signals into one signal.
- This passive antenna also allows DC power to pass through any of its output ports.



# DIGITAL CONFERENCE SYSTEM



## DIGITAL CONFERENCE SYSTEM CENTRAL UNIT LCS-5201A

### RECOMMENDED USES

This Conference system central unit with 4.3" screen is usually deployed at all kinds of medium-size meeting room and will largely save customer 's budget.



### KEY FEATURES

- The controller can connect 2 independent ring network, which can decrease the cable deployment between two meeting table.
- With the technology of shared Gain Automatic Mixing Algorithm , and supports maximum 10 person speak at the same time.
- Processing 1x USB port , that can realize the function of real-time recording ,and the USB port can be up to 64G FAT format.
- 48KHz digital audio sampling transmission, and less than 10ms transmission delay.
- supports power-on self-test, automatic diagnosis, and fault cause prompting at the screen.
- Possessing AGC independent setting, to solve the issue of unstable volume due to different distance between people and the microphone.
- With EQ independent setting, to adjust the sound's timbre
- Remote configuration via webpage or UI interface through other PC , cellphone,tablet PC after they connect to the controller 's wifi hotspot
- With bluetooth connection function , which allow operator to play the music through cellphone after it connects controller through bluetooth.

### TECHNICAL PARAMETERS

Power Supply	100V-240V~50HZ-60HZ 1A
Consumption	≤10W
Network transmission protocol	TCP/IP、 UDP、 ARP、 ICMP、 IGMP、 HTTP
Network chip rate	100Mbps
Audio Codec	MP3/PCM/ADPCM
Audio sampling and bit rate	8Khz-44.1Khz,16bit,8Kbps-320kbps
S/N (Signal-to-Noise) Ratio	> 83dB
Frequency Response	40Hz-18KHz
Screen	4.3"
Resolution	480*272
Interface	1×RJ45 Ethernet Port, 1×USB Port, 1× Phoenix EQ output , 1× Cannon EQ output, 1×RCA line output , 2×network ring output; 1× RS232 output,1× RS85 output
Dimension	483×229.5×89mm
Standard Accessories	IEC C13 Power Cord (US/EU/UK/AU), 2×Digital Splitter , 1×Terminal Block Connector(3.5-2P), 1×Terminal Block Connector (3.5-3P), 1×2.4G antenna , 1×Installation Manual, 1×certification
Optional Accessories	1×Digital loop repeater



DIGITAL CONFERENCE SYSTEM CHAIRMAN UNIT LCS-5250C  
DIGITAL CONFERENCE SYSTEM DELEGATE UNIT LCS-5250D

RECOMMENDED USES

These type of chairman unit and delegate Unit with metal square tube is a high- Directivity microphone.



LCS-5250C

LCS-5250D

KEY FEATURES

- Adopting classic black design.
- Perfect sound quality.
- With advance digital transmission technology.
- Increased reliability with "Closed Loop - Daisy Chain" connection topology.
- System power controllable by central control system.
- AGC/EQ separate adjustment.

TECHNICAL PARAMETERS

MODEL NO	LCS-5250C	LCS-5250D
Power Supply	DC 24V/0.5A	DC 24V/0.5A
Power Consumption	≤1W	≤1W
Audio sampling	8Khz-44.1Khz,16bit	8Khz-44.1Khz,16bit
Audio codec	MP3/PCM/ADPCM	MP3/PCM/ADPCM
S/N (Signal-to-Noise) Ratio	≥83dB	≥83dB
Frequency Response	40Hz-18KHz	40Hz-18KHz
Interface	2 X RJ45 network port	2 X RJ45 network port
Dimension	213×95×115.9mm	213×95×115.9mm
Standard Accessories	2 x Waterproof connector , 1x network cable, 1 X Installation Manual	2 x Waterproof connector , 1x network cable, 1 X Installation Manual

DIGITAL CONFERENCE SYSTEM CHAIRMAN UNIT LCS-5250C-L  
DIGITAL CONFERENCE SYSTEM DELEGATE UNIT LCS-5250D-L

RECOMMENDED USES

These type of chairman unit and delegate unit is with adjustable goose neck microphone and it would be convenient during operation.



LCS-5250C-L

LCS-5250D-L

KEY FEATURES

- Excellent audio quality.
- With advance digital transmission technology.
- Increased reliability with "Closed Loop - Daisy Chain" connection topology.
- System power controllable by central control system.
- AGC/EQ separate adjustment.
- Equipped with goose neck microphone , which is convenient for operation.

TECHNICAL PARAMETERS

MODEL NO	LCS-5250C-L	LCS-5250D-L
Power Supply	DC 24V/0.5A	DC 24V/0.5A
Power Consumption	≤1W	≤1W
Audio sampling	8Khz-44.1Khz,16bit	8Khz-44.1Khz,16bit
Audio codec	MP3/PCM/ADPCM	MP3/PCM/ADPCM
S/N (Signal-to-Noise) Ratio	≥83dB	≥83dB
Frequency Response	40Hz-18KHz	40Hz-18KHz
Interface	2 X RJ45 network port	2 X RJ45 network port
Dimension	160×95×309mm	160×95×309mm
Standard Accessories	2 x Waterproof connector , 1x network cable, 1 X Installation Manual	2 x Waterproof connector , 1x network cable, 1 X Installation Manual

CONFERENCE SPLITTER LCS-5350Z  
DIGITAL LOOP REPEATER LCS-5351Z

RECOMMENDED USES

LCS-5350Z(Conference Splitter) :  
In the conference system,a splitter is needed to form a hand-to-hand ring network connection. Each conference controller supports two network ring, which means two splitter is needed in one conference system.

LCS-5351Z (Conference Repeater):  
In each network ring, if there are more than 30 microphones to be added, then it is necessary to add a conference repeater.



LCS-5350Z



LCS-5351Z

TECHNICAL PARAMETERS

MODEL NO	LCS-5350Z	LCS-5351Z
Interface	1 x network input , 1 x network output,1 x range port	1 x network input , 1 x network output
Dimension	50x34x68.4mm	50x34x68.4mm
Standard Accessories	1 x quick installation, 1x certification	1 x quick installation, 1x certification



SURVEILLANCE MICROPHONE





## AI VIDEO VARIABLE FOCUS ACOUSTIC SURVEILLANCE MICROPHONE XV-100E

### RECOMMENDED USES

This surveillance microphone is designed for use in banks, prisons, and public areas where there is a need to collect audio and video to monitor for abnormal sounds in specific areas.



### KEY FEATURES

- The shell is made of ABS+PC material, which has high temperature and corrosion resistance.
- Adaptive dynamic noise reduction processing, built-in high-speed digital signal processor to ensure output strength.
- High sensitive MEMS microphones array.
- Built-in AGC eliminates differences in sound levels from different distance, making the sound amplitude more balanced.
- Built-in HD camera makes Audio-Visual Synchronization.
- Supports audio-video zoom function, which allows for clear sound reproduction of the focused area when video is zoomed in on the area of interest.
- Supports cascading connection with 4 cascading power outputs and 4 audio inputs, which can be cascaded with 4 designated microphone models.
- Built-in wireless module, can connect up to 4 transmitters. Supports 16 channels.
- Adjusts the microphone's sound level according to the on-site environment.
- Supports both power adapter and POE supply.

### TECHNICAL PARAMETERS

Power Supply	DC:12V
Frequency Response	20HZ-20KHZ
Power Consumption	6.2W(without cascading surveillance microphone)
POE Supply	Supports POE IEEE802.3AT/AF
Interface	1 network interface, 1 power input, 2 audio outputs, 4 power outputs, 4 audio inputs, 4 wireless inputs
Operating temperature, humidity	-10℃ ~ +50℃ , ≤90%RH(No Condensation)

## WIRELESS SURVEILLANCE MICROPHONE XV-100C

### RECOMMENDED USES

With the convenience of wireless technology, you can easily monitor and capture audio in real-time without the hassle of cables. Perfect for banks, prisons, public areas, and more, our wireless surveillance microphones provide crystal-clear audio quality and reliable performance.



### KEY FEATURES

- The shell is made of ABS+PC material, which has high temperature and corrosion resistance.
- Adaptive dynamic noise reduction processing, built-in high-speed digital signal processor to ensure output strength.
- Built-in AGC eliminates differences in sound levels from different distance, making the sound amplitude more balanced.
- The omnidirectional and highly sensitive condenser microphone of our product allows for a natural sound experience.
- Conveniently installed without any cables, simply power on and start using it.
- Our product features a miniature design, with dimensions that are just the size of a human palm.
- The device is capable of detecting specific keywords or abnormal sounds, and can send alerts and upload the recordings to the server.
- Supports specific models of IP cameras to ensure synchronized audio and video.
- The device comes with its exclusive website, which enables users to perform tasks such as parameter configuration, video binding, and hardware updates. Additionally, it allows users to check the product status, system information, and audio files.
- The power polarity reversal protection ensures safer installation.

### TECHNICAL PARAMETERS

Power Supply	DC:12V
Frequency Response	20HZ-20KHZ
Power Consumption	
Interface	1 power input, 3.5mm audio output.
Operating temperature, humidity	-10℃ ~ +50℃ , ≤90%RH(No Condensation)
Dimension	64.4*64.4*10 (mm)

## WIRELESS SURVEILLANCE MICROPHONE(SET) TS-930A/B

### RECOMMENDED USES

This fixed wireless microphone is suitable for use in banks, prisons, public security, inspections and other occasions for sound collection. It can be connected to a hard disk recorder to preview and playback the audio and video collected by the fixed wireless microphone, achieving audio and video synchronization



TS-930A  
Receiver



TS-930B  
Transmitter

### KEY FEATURES

- The shell is made of ABS+PC material, which has high temperature and corrosion resistance.
- The receiver can establish a wireless connection with the transmitter and receive the audio signal from transmitter.
- Adaptive dynamic noise reduction processing, built-in high-speed digital signal processor to ensure output strength.
- Wireless transmitted audio signals up to 10 meters between transmitter and receiver with exceptional interference resistance
- Wireless connectivity enables easy installation; simply power on the transmitter and it will start picking up sound.
- Built-in AGC eliminates differences in sound levels from different distance, making the sound amplitude more balanced.
- Adjusts the microphone's sound level according to the on-site environment.
- Supports both power adapter and POE supply.

### TECHNICAL PARAMETERS

MODEL NO	TS-930A	MODEL NO	TS-930B
Power Supply	DC:9V-30V; POE IEEE802.3AT/AF	Charging Voltage	DC5V/200mA
Frequency Response	20HZ-20KHZ	Battery Specification	400mAH Lithium polymer battery
SNR	90dB	SNR	80dB
Operating Temperature	-20℃ ~ +60℃	Duration	6hours
Dimension	φ85*20 (mm)	Frequency Response	20HZ-20KHZ
		Operating Temperature	0℃~55℃
		Dimension	64.4*64.4*10 (mm)

## OUTDOOR DIRECTIONAL SURVEILLANCE MICROPHONE TS-929E

### RECOMMENDED USES

This surveillance microphone is suitable for use in prisons, public security, inspections and other occasions for sound collection. It can be installed outdoors on surveillance poles, walls, and ceilings.



### KEY FEATURES

- The shell is made of aluminum alloy, which has waterproof, dust-proof and corrosion resistance.
- Adaptive dynamic noise reduction processing, built-in high-speed digital signal processor to ensure output strength.
- Built-in AGC eliminates differences in sound levels from different distance, making the sound amplitude more balanced.
- It is integrated with a professional SMT audio processor that can directly drive various devices such as active speakers, DVRs, and network cameras.
- It is equipped with built-in modules for lightning protection, power polarity reversal protection, and ESD protection, ensuring stable and secure operation.
- Adjusts the microphone's sound level according to the on-site environment.
- The device is capable of detecting specific keywords or abnormal sounds, and can send alerts and upload the recordings to the server.
- Supports both power adapter, DC power and POE supply.

### TECHNICAL PARAMETERS

Power Supply	DC:11V-30V, AC:24V; POE IEEE802.3AT/AF
Directionality	Allows for switch between Unidirectional and omnidirectional
Frequency Response	20HZ-20KHZ
SNR	90dB
Operating Temperature	-20℃ ~ +60℃
Dimension	188*75*32mm



## HD CEILING SURVEILLANCE MICROPHONE TS-905A

### RECOMMENDED USES

This ceiling surveillance microphone is suitable for use in prisons, public security, inspections and other occasions for sound collection.It is suitable for indoor installation on ceilings.



### KEY FEATURES

- The metal construction of the shell provides excellent corrosion resistance.
- Built-in high-speed digital signal processor to ensure output strength.
- Adjusts the microphone's sound level according to the on-site environment.
- The device is capable of detecting specific keywords or abnormal sounds, and can send alerts and upload the recordings to the server.
- The hemisphere construction makes installation easier.

### TECHNICAL PARAMETERS

Power Supply	DC:12V
Interface	Power Input, Analog audio signal input, Data communication interface.
Directionality	Omnidirectional
Frequency Response	20HZ-20KHZ
Sensitivity	-35dB
Operating Temperature	-20℃ ~ +60℃
Dimension	Φ80*24.6 (mm)

## HD DESKTOP SURVEILLANCE MICROPHONE TS-910A

### RECOMMENDED USES

This desktop surveillance microphone is suitable for use in counters, offices, conference rooms and other occasions for sound collection.It is suitable for indoor installation on the desktop.



### KEY FEATURES

- The metal construction of the shell provides excellent corrosion resistance.
- Built-in high-speed digital signal processor to ensure output strength.
- Adjusts the microphone's sound level according to the on-site environment.
- The power polarity reversal protection ensures safer installation.

### TECHNICAL PARAMETERS

Power Supply	DC:12V
Directionality	Unidirectional
Frequency Response	20HZ-20KHZ
Sensitivity	-40dB
Operating Temperature	-20℃ ~ +60℃
Dimension	105*100*25mm

## WALL-MOUNT DIRECTIONAL SURVEILLANCE MICROPHONE TS-715E

### RECOMMENDED USES

This indoor surveillance microphone is suitable for use in prisons, public security, subway platform and other occasions for sound collection.



### KEY FEATURES

- The metal construction of the shell provides excellent corrosion resistance.
- Built-in high-speed digital signal processor to ensure output strength.
- Adjusts the microphone's sound level according to the on-site environment.
- The device is equipped with a built-in high-sensitivity microphone that records natural sound with precision and clarity.
- It supports long-distance transmission and is highly resistant to interference.
- Supports both power adapter, DC power and POE supply.

### TECHNICAL PARAMETERS

Power Supply	DC:12V, AC:24V; POE IEEE802.3AT/AF
Directionality	Unidirectional
Power consumption	Less than 1W
Frequency Response	20HZ-20KHZ
Dimension	113*42*37mm

## AI CEILING SURVEILLANCE MICROPHONE TS-905E

### RECOMMENDED USES

This ceiling surveillance microphone is suitable for use in prisons, public security, inspections and other occasions for sound collection.It is suitable for indoor installation on ceilings.



### KEY FEATURES

- The metal construction of the shell provides excellent corrosion resistance.
- Adaptive dynamic noise reduction processing, built-in high-speed digital signal processor to ensure output strength.
- Built-in AGC eliminates differences in sound levels from different distance, making the sound amplitude more balanced.
- It is integrated with a professional SMT audio processor that can directly drive various devices such as active speakers, DVRs, and network cameras.
- Adjusts the microphone's sound level according to the on-site environment.
- The device is capable of detecting specific keywords or abnormal sounds, and can send alerts and upload the recordings to the server.
- Supports specific models of IP cameras to ensure synchronized audio and video.
- The device comes with its exclusive website, which enables users to perform tasks such as parameter configuration, video binding, and hardware updates. Additionally, it allows users to check the product status, system information, and audio files.
- Supports both power adapter, DC power and POE supply.

### TECHNICAL PARAMETERS

Power Supply	DC:9V-30V; POE IEEE802.3AT/AF
Directionality	Omnidirectional
Frequency Response	20HZ-20KHZ
Dimension	φ85*18 (mm)
Effective Area	5-180 m2
Intelligent Functions	Supports detection of keywords and Specific abnormal sound
Operating Temperature	-20℃ ~ 60℃
Connection Mode	RJ45,Three-wire Configuration and Four-wire Configuration isolation output.



## HD CEILING SURVEILLANCE MICROPHONE TS-804A

### RECOMMENDED USES

This ceiling surveillance microphone is suitable for use in prisons, public security, inspections and other occasions for sound collection.It is suitable for indoor installation on ceilings.



### KEY FEATURES

- The aluminium alloy construction of the shell provides excellent corrosion resistance.
- Built-in high-speed digital signal processor to ensure output strength.
- Adjusts the microphone's sound level according to the on-site environment.
- The hemisphere construction makes installation easier.
- The power polarity reversal protection ensures safer installation.
- The noise-canceling core effectively eliminates environmental noise, ensuring clarity and precision in the audio.

### TECHNICAL PARAMETERS

Power Supply	DC:12V
Directionality	Omnidirectional
Frequency Response	20HZ-20KHZ
Effective Area	5-120 m2
Intelligent Functions	Supports detection of keywords and Specific abnormal sound
Operating Temperature	-35℃~70℃
Output Resistance	600-1000Ω
Signal Output Level	2Vrms(@1KHz)/ 5.6Vpp(@1KHz)

## HD CEILING NOISE-CANCELING SURVEILLANCE MICROPHONE TS-601A

### RECOMMENDED USES

This ceiling surveillance microphone is suitable for use in prisons, public security, inspections and other occasions for sound collection.It is suitable for indoor installation on ceilings.



### KEY FEATURES

- The aluminium alloy construction of the shell provides excellent corrosion resistance.
- Adjusts the microphone's sound level according to the on-site environment.
- The hemisphere construction makes installation easier.
- The power polarity reversal protection ensures safer installation.
- The noise-canceling core effectively eliminates environmental noise, ensuring clarity and precision in the audio.

### TECHNICAL PARAMETERS

Power Supply	DC:12V
Directionality	Omnidirectional
Frequency Response	20HZ-20KHZ
Effective Area	5-120 m2
Intelligent Functions	Supports detection of keywords and Specific abnormal sound
Operating Temperature	-35℃~70℃
Output Resistance	600-1000Ω
SNR	85dB
Sensitivity	-40dB
Signal Output Amplitude	2Vrms(@1KHz)/ 5.6Vpp(@1KHz)

## GLOSSARY

**TCP/IP:** (Transmission Control Protocol/Internet Protocol) Network communication protocol is the most basic Internet protocol and the basis of international Internet. It's composed by network layer IP protocol and transport layer TCP protocol. TCP/IP defines how electronic devices connect to the Internet, and the data transmission standard.

**LAN:** (Local Area Network, LAN) It refers to a computer group composed by multiple computers in a certain area. It's generally within a thousands of meters. LAN can achieve document management, software application sharing, printer sharing, work group scheduling, e-mail and fax communication...these functions.

**WAN:** (Wide Area Network,WAN) It usually crosses the big physics range, the coverage range from a few tens of kilometers to thousands of kilometers. It can connect multiple cities or countries, or across several continents and provide long-distance communication to form the international remote internet.

**VPN:** (Virtual Private Network, VPN) It can be understood as a virtual internal exclusive communication line in an enterprise. It can use the special encrypted communication protocol to establish an exclusive communication line for multiple enterprises in different places which have connected to Internet.

**UNICAST:** It's a point-to-point connection between the client and server. "Point-to-point" means each client receives the remote stream from server. The server will send unicast stream only when the client requested.

**MULTICAST:** To realize point-to-multipoint connection between the sender and each receiver. If a sender transmits the same data to multiple receivers simultaneously, it just need copy one same data packet. It improves data transfer efficiency and reduces the backbone network jam possibility.

**SIP:**(Session Initiation Protocol) It's multimedia communication protocol and established by the IETF (Internet Engineering Task Force). It is a text-based application-layer control protocol, it's used for creating, modifying and releasing one or multiple participants conversation.

**H.264:** It's the 10th part of MPEG-4, that is the highly compressed digital video codec standard suggested by JVT(JVT, Joint Video Team) which is composed by ITU-T video coding experts group(VCEG) and ISO/IEC moving pictures experts group (MPEG).

**ONVIF:** It's a global video open interface standard, it's an international open standard network interface development forum of network video products which is established by AXIS united BOSCH and SONY. It is committed to use public and openness principle. The ONVIF specification will ensure the intercommunity between different video products suppliers.

**Full Duplex:** It's a communication transmission term. Communication allows data transmit in two directions simultaneously, it is equivalent to two simplex communication mode combination. Full duplex refers to the data transmission in two directions simultaneously(A→B and B→A). Refers to A→B, and B→A simultaneously, it is instantaneous synchronous.

**Half Duplex:** It refers to one action only within a period of time. Early walkie-talkie and HUB devices are half duplex based.

**PTT:** PTT is transmit button, press the PTT to talking and loosen the PTT to receiving.

**Frequency Response:** It is also called response curve, it's the curve which describes gain variation with the changing of frequency. Any sound device or carrier(a device to record sound signal) all has its frequency response curve. The ideal frequency response curve should be flat, it does not produce distortion after the sound signal passed.

**Audio sampling:** Convert the sound wave convert into a series of binary data and reappear the original voice, the A/D converter use tens thousands of times per second rate for audio sampling, every sampling recorded the original analog sound waves status in the moment, that is sample. Sampling numbers per second is sampling frequency or rate, the unit is HZ(Hertz).

**Alarm in/Alarm out:** It is also On-off in/out, that is contactor, there have 2 states between the contactors, it's connect or disconnect. There are 2 kinds of switching signal: Active & passive, active switching signal will drive voltage when two contactors are connected.

**POE:** (Power Over Ethernet) It it based on Ethernet Cat.5 wiring to transmit the data signal to IP terminals(eg:IP phone, IP camera...etc), and it also can offer the DC power to device at the same time.

**P66/IP65/IP54:** IP protection degree,the 1st number means the dustproof capability, No.6 means no dust inside; the 2nd number means the waterproof capability, No.6 means no harmful effect for spraying the water to the shell everywhere, No.5 degree is weaken than

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