Information Is Subject To Change Without Notice.

Aimiciot Electronics Co., Ltd.

Wed: www.aimiciot.com

Tel: +86 0757-82580051

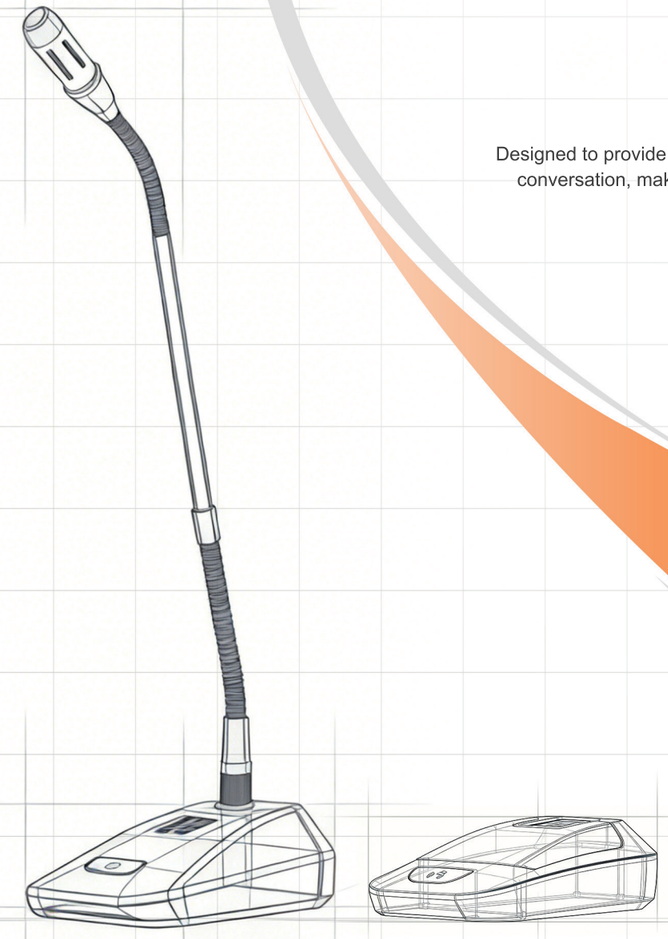
Add: Building 4, No 26 Langbao West Road,Zhangcha, Chancheng District, Foshan, Guangdong, China

AIMICIOT

UN Series Wireless Audio Collaboration System

TOWARD THE FUTURE INNOVATION SPACE

Designed to provide unparalleled natural sound quality for every conversation, making every exchange smooth and productive



CONTENT



1 System Overview

01 System Introduction
02 System Advantages

2 Product Introduction

03 Wireless Access Point Transceiver
04 Desk Microphone
05 Boundary Microphone
06 Solution/Space/Divisible Room
07 Network Charging Dock
09 Handheld Microphone/Bodypack Transmitter
10 Network Charging Dock
11 Remote Conference Processor

3 Solution

13 AVoIP Conference System Solution

4 Accessories

15 Accessory Technical Specifications

5 Applications

16 Applications



Un Series

Reasons for Choosing the Aimiciot Wireless Audio Collaboration System

This is a wireless digital conference system designed for modern mixed audio spaces, aiming to deliver unparalleled natural sound quality for every exchange, making every conversation smooth and productive. Its minimalist and sophisticated design allows the product to blend seamlessly into its environment; multiple microphone types can be used together in the same audio space to meet various presentation styles; flexible and efficient deployment and simple maintenance make the daily work of IT and AV managers easier.

Quick and flexible deployment: The host unit supports ceiling or wall mounting and connects the entire system with just one network cable, eliminating the need for complex frequency matching or tuning.

Seamless IT Integration: Featuring a fully networked architecture and compatibility with common IT standards, the system offers rich connectivity options including Power over Ethernet (PoE) and Audio over IP (AoIP) transmission technologies such as Dante and AES67. It supports TCP/IP-based network management, enabling easy access to IoT systems or integration with third-party management platforms.

Advantages Analysis

Clear and bright sound quality

The specially tuned sound quality allows the microphone core to accurately and efficiently capture the subtle features of the human voice, ensuring realistic, clear and natural communication.

Ultra-long standby time

Built-in smart rechargeable lithium battery delivers up to 30 hours of continuous use, effortlessly supporting all-day meetings.

Flexible and worry-free wireless collaboration system

The UN series of lightweight wireless audio collaboration systems is designed for innovative meeting spaces, supporting various microphone configurations for use in the same space, such as desktop gooseneck, handheld, and bodypack microphones. No matter how complex the conference system or how many participants, it provides a flexible and elegant collaboration solution.



Education



Business





UN40M

Wireless Access Point Transceiver

The wireless transceiver host is virtually invisible and can be installed using ceiling, wall, or floor brackets. The cover can be painted to match the room color. It supports Power over Ethernet (POE) and AOIP (Dante/AES67) network audio protocols, making it easy to install and connect to network systems.

Features

- It adopts all-digital wireless audio codec technology, which improves the signal's anti-interference ability, ensures stable audio signal with no packet loss, and accurate transmission and reception.
- Supports AoIP (Dante or AES67) digital network audio, enabling interconnection of audio signals and supporting 4-channel zone functionality.
- Power over Ethernet (PoE) and adapter power supply are input simultaneously, enabling dual power supply redundancy.
- Video tracking can be achieved by using a network camera or a central control platform.
- Analog backup output, dual digital-analog backup of audio signals, to cope with various complex and sudden failures.
- The system can connect to a maximum of 250 microphones and has 5 transmission modes: normal mode, first-in-first-out mode, free mode, request mode, and voice wake-up mode.



UN150D

Desk Microphone

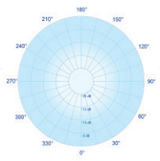
Features

- Minimalist and sophisticated industrial design; optional microphone boom lengths available.
- Digitally adjustable microphone polarity technology allows users to adjust the microphone's directionality according to different environments, locations, meeting formats, and speaker needs, achieving optimal sound pickup. Supports 5 modes: Omni, Wide cardioid, Cardioid, Super cardioid, Figure 8.
- Built-in intelligent rechargeable lithium battery provides up to 30 hours of battery life, easily handling long work meetings.
- Specially tuned sound quality ensures the microphone core accurately and efficiently captures subtle features of the human voice, guaranteeing realistic, clear, and natural communication.
- Flexible charging methods: supports direct charging via Type-C or charging directly on the included charging dock.
- The OLED display provides real-time feedback on remaining battery power, unit ID, microphone status, sensitivity, talk timer, and connection status.

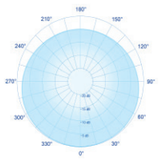


Microphone digital directivity variable technology

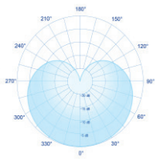
Users can adjust the directivity of the microphone according to different environments, locations, meeting methods, and speaker needs to achieve an optimal sound pickup effect. It supports 5 polar patterns: Omni，Wide cardioid，Cardioid，Super cardioid，Figure 8.



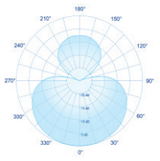
Omni



Wide cardioid



Cardioid



Super cardioid

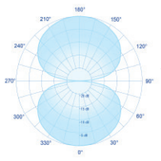


Figure 8

UN140B

Boundary Microphone

Features

- Minimalist industrial design with clean lines and understated texture, seamlessly blending into any setting.
- Digital variable microphone polarization technology allows users to adjust the microphone's polarization according to different environments, positions, meeting styles, and speaker needs to achieve optimal sound pickup. It supports 5 modes: Omni, Wide cardioid, Cardioid, Super cardioid, Figure 8.
- Flexible charging methods: supports direct charging via Type-C or charging directly on the included charging dock.
- The intelligent rechargeable lithium battery provides up to 30 hours of standby time, easily handling even long workdays.
- Specially tuned sound quality allows the microphone core to accurately and efficiently capture the subtle characteristics of the human voice, ensuring realistic, clear, and natural communication.
- OLED display shows remaining battery power, ID address, microphone on/off status, sensitivity, talk timer, and connection status.





SOLUTION/SPACE/DIVISIBLE ROOM



UN160C

Network Charging Dock

Features

- Optional 4- or 8-pin charger, using contact charging dock method
- Fully charges in 4 hours
- Charging level can be monitored via PC software
- Compatible with charging boundary microphones and goose-neck microphones







UN110H

Handheld Microphone



Features

- Handheld design, simple and elegant with ergonomic construction for comfortable grip.
- Features wide-frequency dynamic microphone capsule delivering clear, bright sound withhigh sensitivity; optional large-diaphragm condenser microphone capsule available.
- Equipped with a 1-inch HD true-color screen displaying battery level, signal strength,operation-al status, channel group, and ID number.
- Utilizes digital RF technology for audio signal transmission and control management.
- Enables automated camera tracking when paired with camera tracking host and pre-configured via computer.
- Anti-mobile interference microphone core ensures stable connectivity and durable reliability.
- Ultra-low power consumption circuit design with built-in high-capacity 18650 battery.
- Includes dedicated charging dock for convenient operation.
- Supports networked audio transmission when connected to host system, enablingaudio signal interconnection.
- Mobile interference-resistant microphone core, with automatic ID allocation by the conference system.

UN120T

Bodypack Transmitter



Features

- Compatible with lapel or headset microphones.
- Equipped with a 1-inch HD true-color screen displaying battery level, signal strength, operational status, channel, and ID number.
- Utilizes digital RF technology for audio signal transmission and control management.
- Enables automated camera tracking when synchronized with a camera tracking host and pre-configured on a computer.
- Features an ultra-low power consumption circuit design with a built-in high-capacity lithium battery.
- Includes a dedicated charging dock for simple, convenient operation.
- Supports networked audio transmission via a host system, enabling seamless audio signal interconnection.
- Each conference unit features a unique serial number, with automatic ID allocation by the conference system.



UN130C

Network Charging Dock



Features

- Dual slot fast charging, efficient and time-saving: It can charge both Bodypack Transmitter and handheld transmitters simultaneously, with Bodypack Transmitter charging-taking about 3 hours to fully charge and handheld charging taking about4 hours.
- Flexible expansion and centralized power supply: up to 4 charging stations canbe connected in series, and only one power source is needed to charge multipledevices in batches, saving space and cables.
- Clear status at a glance, remote monitoring: Each charging slot is equippedwith indicator lights to display charging progress in real time, and supportsremote monitoring of battery level and status through the manager software.

Technical Parameters

- Power input: 5V DC, 3.0A
- Charging output: Single slot maximum output 5V/3A
- IP control: 100 Mbps
- Working temperature range: 0°C to 40°C(32°F to 104°F)
- Size: L200mm*90mm
- Accessories: Connection cable, AC adapter, AC power cord





WF44D

Remote Conference Processor

Features

- One network cable realizes simultaneous transmission of signal, control and POE power supply.
- Built-in USB sound card, supporting audio playback, recording and soft video conferences including Tencent Meeting, DingTalk, ZOOM, etc.
- Adopts AEC acoustic echo cancellation for clear elimination of venue echo.
- Equipped with AFC howling feedback suppression to effectively solve local howling issues.
- Built-in ANC automatic noise reduction to filter on-site noise and deliver clearer conference sound reinforcement.
- Compatible with multiple AoIP network transmission protocols such as DANTE and AES67.
- Open API protocol enables management and control via third-party platforms.
- Rich I/O interfaces available, including RCA, XLR and Phoenix terminals.
- Supports external wall-mounted controller for convenient operation and management.





Technical Parameters

- Sampling Rate: 48kHz/24bit
- Phantom Power: +48V/10mA Max
- Frequency Response: 20Hz~20kHz (±0.3dB)
- Maximum Level: 18dBu
- System Latency: ＜3ms
- AoIP Channels: 4×4 DANTE / AES67
- Analog I/O Ports: 4×4 Channels
- Working Power Supply: POE, DC12V
- Dimensions (W×H×D): 300×38×180mm
- Net Weight: 1.75Kg

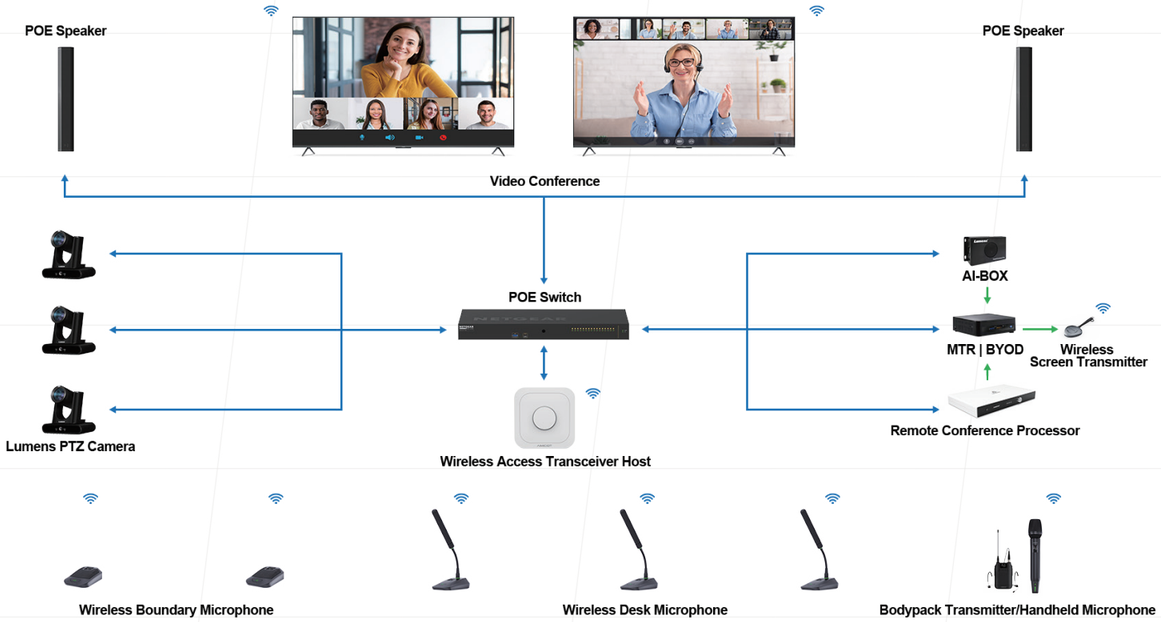


AVoIP Conference System Solution



Introduction

This AVoIP solution requires only one network cable to simultaneously handle data transmission, camera control, and power supply, greatly reducing equipment needs by eliminating the need for a central controller, SDI matrix, and capture card. It also supports handheld, headset, and lavalier microphones, and the conference system features a voice wake-up function — when a participant speaks near the microphone, the device automatically turns on.



One network cable solves the connection problem

In traditional solution, we need SDI cable, network cable, power cord. But in our AVoIP solution , a network cable to solve data transmission, camera control, and power supply.

AVoIP requires less equipments

The AVoIP solution remove the Central Controller, SDI Matrix, and SDI to USB Acquisition Card.

Handheld, headset and lavalier microphones can be used in this system

Our handheld, headset and lavalier microphones can be used in this AVoIP solution.

Conference system has voice wake—up function

When the conference member speak near our microphones, the microphone will automatically turn on.

Accessory Technical Specifications

	Microphone Type	Directivity	Sensitivity	Output Impedance
	Small-diaphragm	Cardioid	-35±3db(0db=1v/pa)	680Ω±30% (At 1khz)
	Dynamic	Super Cardioid	-50.2(±3)db(0db=1mv/pa)	600Ω±10% (At 1khz)
	Capacitive	Super Cardioid	-40±3db(0db=1v/pa)	Max2.2kΩ (At 1khz)

	Microphone Type	Directivity	Sensitivity	Output Impedance
	Back-pole Electret	Cardioid	-45db±3db (0db=1v/pa At 1khz)	50hz~16khz
	Back-pole Electret	Omni	-42db±3db (0db=1v/pa At 1khz)	50hz~16khz
	Capacitive	Cardioid	-42db±2db (0db=1v/pa At 1khz)	50hz~18khz
	Capacitive	Cardioid	-45db±2db (0db=1v/pa At 1khz)	50hz~18khz

SMALL-TO-MEDIUM CONFERENCE ROOM

Configuration 1

- Rapid, Simple, and Fully Networked Deployment.
- Digital Wireless Microphone Conference System.
- PoE Network Ceiling Speaker.
- Shotgun Microphone on Stand – High-sensitivity pickup for clear audio quality.
- AoIP-based network architecture, supporting Dante or AES67 protocols.
- Network Camera.





HUDDLE ROOM / TRAINING ROOM

Configuration 2

- Rapid, Simple, and Fully Networked Deployment.
- Digital Wireless Microphone Conference System.
- PoE Network Ceiling Speaker.
- Wireless Boundary Microphone – High-sensitivity pickup for a clean, clutter-free desktop.
- AoIP-based network architecture, supporting Dante or AES67 protocols.
- Network Camera.

LARGE CONFERENCE ROOM

Configuration 3

- Rapid, Simple, and Fully Networked Deployment.
- Digital Wireless Microphone Conference System.
- PoE Network Ceiling Speaker.
- Gooseneck Microphone on Stand – High-sensitivity pickup for clear audio quality.
- AoIP-based network architecture, supporting Dante or AES67 protocols.
- Network Camera.



KEY:

- USB
- HDMI
- WIRELESS