



Communication Expert...

New Generation Wireless Conference System



4.3' Touch Screen



Wireless



Wired



Vote



Interpretation

B300 Series





Designated Speech & Audio
Elegant Design For Smooth Speech

Camera Tracking System

The camera can automatically track and focus



Voting System
Voting can choose support

Information Touchscreen

The 4.3-inch capacitive touch screen



New Generation B300 Series 5GHz Wi-Fi Wireless Conference System, with High Tech in DSP unique Sound Processing

B300 series 5GHz Wi-Fi Wireless Conference System

Standard Wi-Fi Communications

Our Digital wireless conference system is an innovative system based on standard Wi - Fi technology and self adjustment technology. The system work in the 2.4Hz and 5GHz band and get the 44 channels for communication to coexist with others Wi-Fi network. The unique self-adaptive technology is strong anti-interference ability ensure the system interference free and highly flexible for different application. The standard Wi-Fi Technology make the system can work in around the world and no ISM limit.

Ease of Use

The system is no additional cabling and testing an run under the 25-meter radius of Wi-Fi signal which is full 360 degree coverage. All microphone units automatically identify the access point and communicate with WPA2 secure connection to ensure the conferencing safety.

Compact yet versatile design

The product design reflects the elegant, yet compact and ease to use features. Conference unit features a Graphical interface operation area, including lighting reminder, anyone can get started quickly. Easy to install, User-friendly to use, and is designed to ensure higher productive meetings.

Excellent legibility sound

Advanced voice processing technology, with the unique design of the microphone head, this unit can be accurate pickup and restore the human voice through a high-quality build-in speakers or an extremal PA system, original AUDIO-LINK digital ring network technology, Automatic Gain Control Volume(AGC) automatic frequency control(AFC) technology help reach higher volume without triggering the how line effect, ensures clear sound to every person in the room.

High tech intelligence platform

Timing function, overtime speaking reminder, voting results multi-platform synchronization, network control and meeting management, conference smart reservation, worldwide firmware real-time updates, the integration of IT technologies ensures smart conferencing platform, the B300 is one of them.

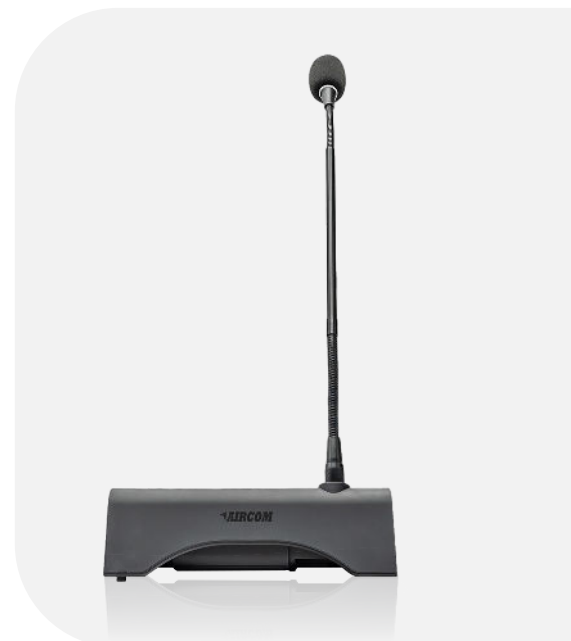
Chairman/Delegate Unit (AW-B300C)

Features

- Compliance with IEC 60914, GBT 15381-94.
- The unique AUDIO-LINK™ digital loop network technology realizes full digital signal transmission and processing.
- The wireless communication between the conference unit and the controller adopts the WIFI standard IEEE 802.11n wireless communication mode, while supporting wired communication mode: 100M wired network communication.
- High-fidelity sound quality, lossless audio transmission technology, 48K audio sampling frequency, 20Hz~20KHz response frequency.
- Conference controller can output 16 segment equalized EQ to achieve sound field adjustment; pressure limit, which can recognize the noise gate passed by human voice; AGC automatic volume gain control; AFC automatic feedback suppression and auto-mix technology.
- 4.3-inch capacitive touch screen and built-in NFC and RFID (Optional) reader for quick participant identification.
- Support battery charging, microphone base charging, POE network charging three methods, support unit display, web server and PC software for battery intelligent visual management, to protect the needs of uninterrupted continuous meetings.
- Easily expand functions by using software modules.

Functions

- Adopt 128 bits AES encryption technology, support WPA/WPA2 wireless secure technology to prevent wiretapping and unauthorized access.
- Using low-latency technology, the minimum delay from the microphone to the speaker output is less than 5ms.
- 5G wireless multimedia conference unit can be configured into a chairman unit, delegate unit, VIP unit or dual delegate unit according to the different needs of each meeting, with three programmable physical buttons, the function can be automatically switched according to the type of conference unit.
- As VIP delegate unit, the system can set up to 32 VIP delegate units. As long as the total number of microphones already turned on in the system does not exceed 8, the VIP delegate unit can be turned on freely.
- Conference unit touch screen software contains five optional function modules:
 - Voting: two-button/three-button/five-button voting
 - NFC identification: Sign in through NFC card to accurately identify user information.
 - Dual simultaneous interpretation channel: support 2 language channel selectors, each selector supports 64 languages independent selection.
 - Dual users: two participants sharing one unit to achieve camera tracking at two locations; realizing dual delegates can speak, sign-in, vote on one unit.



- Conference unit through the touch screen with ordinary sign-in function, with IC card slot support through NFC card reading sign-in, support for tea application function.
- Each microphone unit can independently adjust the sensitivity through the touch screen, support -12dB to +12dB adjustment, independently adjust the 8-band EQ equalizer.
- Dual headphone interface design, the volume can be adjusted through the touch screen and knob, dual headphones support both sides of the output of different interpretation channels of voice.
- Built-in 2W@8Ω high-fidelity speaker, when speaking in the unit, it will automatically mute to prevent howling.
- Conference unit hot plug-and-play, automatic recovery.
- Support firmware upgrade via wired and wireless network, and support logo and function customization.
- The number of speech person limit function: can set the delegate speech units that are turned on at the same time.
- Has the following speaking modes:
"OPEN" open mode,
"VOICE" voice control mode,
"OVERRIDE" First in First out mode,
"APPLY" application mode,
"PTT" press and hold to speak (optional),
"ALL" full open mode (optional)
- Combined with camera and a camera tracking controller to achieve camera auto tracking function.
- Added Type-C interface and side charging contacts for mobile device charging.

Control & Indicators

- Microphone with two-color LED ring, red indicates speaking status, green indicates request to speak.
- 4.3-inch capacitive touch display.
- Indicator for Volume adjustment.
- Indicator for MIC ON/OFF
- Chairman unit with priority button and consent button for the delegates.
- Power ON/OFF button is hiding on the left side.

Interfaces

- Pluggable gooseneck microphone base.
- 2x 3.5mm stereo headphone jack.
- 1x 3.5mm stereo input jack.
- 2x RJ45 connectors.
- 1x IC card slot.
- Contactor for battery pack.

Technical parameter

Screen size	109.22 mm (4.3 inches) Resolution: 800x480
Screen type	Capacitive and color multi-touch
Contactless NFC cards in following standards	ISO / IEC14443 Type A
Connection method	CAT5 / CAT6 cable + WiFi wireless + buckle
Wireless communication method	WIFI standard IEEE 802.11n, frequency range: 5GHz
Wired communication mode	100M wired network communication
Electrical parameters	
Power	48V DC
Power consumption	2.8 W (wireless connection, battery powered), 3.4 W (with line POE power supply)
Battery capacity	5000mA
Power supply voltage	DC 7.4V
Battery life in power saving mode	≥ 28 hours (the microphone continues to speak)
Performance mode battery life	≥ 14 hours (the microphone continues to speak, the screen is highlighted)
Frequency response	20~20000Hz
Dynamic range	> 90 dB
S / N ratio	≥90dB
THD	< 0.1% at rated level
Audio input	
Mic Gooseneck Length	42 cm (420mm)
Nominal microphone input	80 dB SPL in accordance with IEC60914
Maximum sound pressure	125dB (THD <3%), in line with IEC60914
Sensitivity	-46 dBV / Pa
Audio output	
Headphone load	16Ω, Headphone volume: 10mW
Headphone jack	3.5mm stereo Input impedance: 2kΩ
Speaker Output	2W@8Ω

Mechanical parameter	
Installation	desktop
Weight (without microphone)	1.0 KG
Dimensions (mm, without microphone)	217.5L × 138.5W × 69H
Color	Black
Environmental parameters	
Operating temperature	5 °C to +55 °C
Relative humidity	<90%

Access Point (AW AP 4U)



Features

- Connect with the Wi-fi conference processor AW CCU200, or with the switch to extend more conference AP in the same system.
- Typical coverage range 30m.
- Each AP can connect up to 50 conference units.
- Install on ceiling, wall or with stand rack mount.
- 128 bits AES digital encryption technology, with WAP2 secure connection, MAC address filtering, SSID-hiding to prevent wiretapping and unauthorized access from legat unit.

Functions

- LED indicator for signal/power.
- 5GHz dual band communication.
- LAN support POE power supply.
- RJ45 for LAN connection.

Technical parameter

Model	AW AP 4U
NETWORK	
Interface	1×Gigabit WAN/POE Port, 1×Gigabit LAN Port
Link Speed	1200Mbps
Networking Addressing Capability	DHCP or Manual IP address
Cable Length	100m (max)
Cable Type	≥ Cat5e (shielded / unshielded)
Connector Type	1× RJ45
Connector LED	WAN/POE Port (UP LED), LAN Port (Down LED)
RF	
WLAN Standard	IEEE802.11ac, IEEE802.11a, IEEE802.11g, IEEE802.11b
RF Frequency Bands	5GHz UNII
Max Transmission Power	27dBm
Antenna Type	Four built-in 5dBi antennas
USER INTERFACE	
LED Status Indication	Power, Network Audio, Wireless (Yellow / Blue)
Reset	Push button for Factory Reset
POWER	
Supply Type	Power Over Ethernet, 802.3at, DC 12V 1.5A
Supply Voltage(at Power Consumption)	≤13W
MECHANICAL	
Dimensions	220L×220W×45H(mm)
Color	White
Weight	0.3KG
Mounting Type	Ceiling, Wall or Stand Rack

Battery (AW300BT)



Features

- AW300BT, 5000mAh, 7.4VDC.
- AW300BT Large capacity rechargeable battery
- With 6 charging contacts, can charge from charging box or unit base and support standing charging.
- Long life and lasting stability of charging performance.
- After fully charged it can use 20 hours (with power save mode).

Functions

- Contactor by pop-up pins.
- Buckle housing to prevent poor contact or dropping.

Technical parameter

Model	AW300BT
Battery capacity	5000mA
Output voltage	7.4VDC
Weight	285G
Operation temperature	-20°~60°

Charger (AW300CH)



Features

- 3 hours needed to fully charge.
- MAX 10 pcs battery charging at one time.
- 1U rack-mounted chassis, supports cabinet installation.
- Five-level, two-color status indicator shows charging status.
- Contactor by pop-up pins.
- Wide range power input: 110V~240V AC.
- Static power consumption 5W, maximum power consumption 150W.

Technical parameter

Model	AW300CH
Input	100 ~ 240VAC 47 ~ 63HZ
Output	8.4V/750mA
Power consumption	20W
Size(mm)	530(L) x200(W)x65(H)

Trolley Case (AW300PC)



Functions

- For: 10 pcs conference units + 10 pcs gooseneck mics
Conference units:
- AC200M
Gooseneck mic:

Technical parameter

MECHANICAL

Dimensions	400L×350W×620H(mm)
Color	Black
Net weight	17KG
Power consumption	80~96W
Material	Aluminum alloy frame

Controller Unit (AW CCU200)



Features

- Connetable up to 200 chairman/delegate units.
- The unique AUDIO_LINK digital ring network technology achieve full-digital transmission and processing.
- One network cable to transmit up to 64 channel audio and other signals.
- All microphone units support audio, ID independent output. Working with voice recognition system to achieve voice read spearation.
- USB recording controller monitor, advanced noise cancellation technology to realize clear recording.
- System date, time managment and support count-down speech.
- Optional DANTE output module with other DANTE equipment used.
- Can drive 2x120W POE speaker, through er tensionmain unit, support up to 16POE speakers.
- A single conference controller can realize the independent control and merging of 4 conference rooms, can handle the cascade of multiple conference controller to realize the merging of 4 separation of larger conference rooms(Optional).
- “Hand-in-Hand-Loop-Network” connection makes the system alwasys working perfectly no matter charging dscussion unit or having any malfunctioned units.
- The sensitivity of the nit microphone and 8 segment equalizer EQ adjusted independently.
- Conference controller can output 16 segment equalizer EQ to achieve sound field adjustment; pressure limit which can recognize the noise gate passed by human voice AGC automatic volume gain control; AFC automatic feedback suppression and auto-mix technology.

Functions

- RS232 central control, realize microphone switch, priority, volume and other control.
- RS232 or RS485 to send the SAMSUNG/PELCO/VISCA protocol to realize camera auto tracking function.
- Hot plug-and-play, and auto-recovery function.
- Wide range of voltage from 100V~240V AC,
- By using RFID card to identify, can realize voting with names.
- With PC software to add more ways of voting system:
 - Approve/Object
 - Approve/Abstain/Object
 - Level: 1/2/3/4/5

System Diagram

