

High-fidelity sound quality


Active Noise Cancellation


Speech Function


Touch Display

Enhancing meetings of all sizes

AIRCOM

WIRELESS 200 SERIES

Full Digital Wireless Conference System

AW CCU200

Conference Processor



Conference Processing System

Features and Functions

- **Features and Functions:** Choose between wired and wireless units to create a setup that perfectly integrates with your conference space, maximizing efficiency and minimizing cable clutter.
- **Simplified Power Management:** The main unit eliminates the need for extra power supplies by cleverly utilizing Power over Ethernet (PoE) technology. This technology transmits both data and power through existing Ethernet cables, simplifying setup and reducing the number of cords required.
- **Reliable Network Technology:** The unique AUDIO-LINK digital ring network technology ensures complete digital signal transmission and processing, resulting in superior audio quality.
- **Built-in Redundancy:** The "Hand-in-Hand-Loop-Network" connection provides a safety net, allowing the system to function uninterrupted even if a discussion unit malfunctions or is replaced.
- **Scalable Solution:** The system boasts impressive scalability, accommodating up to 5,200 discussion units with the Aircom AWD-EXB Full Digital Extension Box. This allows you to adapt the system to conferences of various sizes, from small meetings to large-scale events.
- **Effortless Expansion:** Adding new participants is a breeze. Both wired and wireless units connect directly to the controller for easy adding of participants and eliminating the need for complex configuration and saving valuable setup time.
- **Exceptional Audio Experience:** Advanced technology delivers crystal-clear audio by transmitting data without compression (lossless transmission), capturing a wider range of sound frequencies (utilizing a high 48kHz sampling rate), and reproducing the entire human hearing spectrum (with a wide frequency response of 20Hz to 20kHz).

- **Versatile Input/Output:** The system provides 2-channels of audio input, compatible with XLR or RCA connectors. This allows you to connect local sources like microphones or music players, or integrate with remote video conferencing systems for a more comprehensive experience.
- **Multi-Zone Audio Distribution:** Expand your audio capabilities with up to 8 channels of audio output. This allows you to connect language translation systems or route audio to different zones within the conference space, catering to multilingual audiences or creating designated listening areas.
- **Internal Communication Features:** The system supports various internal communication features that empower participants to collaborate effectively. This might include features like sending private messages or initiating group discussions.
- **Unique Identification Capability:** Each discussion unit is assigned a unique identifier (ID) to prevent conflicts and ensure smooth operation. The identification system helps the system manage multiple units efficiently and avoid confusion.

User Interface

- Visual display shows system functions and results. (LCD display)
- Four-direction button allows for navigating menus.
- A single button initiates recording and provides a status light.
- The master volume control knob able adjusts the overall volume.

Connectivity

- **Recording:** A front-mounted USB port enables recording audio directly to external storage devices.
- **Monitoring:** A standard 3.5mm headphone jack allows for private audio monitoring.
- **Audio In/Out:**
 - The system offers various options for connecting microphones and speakers:
 - 1x RCA connector for unbalanced audio input and 1x for output (commonly used for consumer electronics).
 - 1x XLR connector for balanced audio input and 1x for output (professional audio equipment).
 - 6x Phoenix audio output connectors (likely for additional speaker outputs using a secure screw-down connection).
 - Digital audio connections are available via 2x RJ45 jacks (likely for high-quality, uncompressed audio transmission).

- **Network & Control:**

- Network connections allow for communication with other conference units and a computer using 2x RJ45 jacks.
 - The system provides ports for various control functionalities:
 - 1x DP9 male interface for external control (likely for wired remote control).
 - 1x DP9 female interface for camera control (likely for wired camera control).
 - 1x three-pin Phoenix interface for camera control keyboard (specific camera control interface).
 - 1x RJ45 jack for wired connection to a computer or network switcher (for control or data transfer).
- Others:
 - 1x grounding screw for proper electrical grounding.
 - 1x universal power interface supporting a wide range (100-240VAC) for global compatibility.

Technical Specifications

- **Power:** This device can be powered by a wide range of voltages, from 100V to 240V AC, making it suitable for use in most countries around the world.
- **Power Consumption:** It uses very little power when idle, only 12W. During full operation, the maximum power consumption is 150W.
- **Audio Performance:** The system offers a frequency response of 20Hz to 20kHz, which covers the entire range of human hearing. This ensures accurate audio reproduction.
- **Low Distortion:** The total harmonic distortion is less than 0.05%, minimizing audio distortion for clear sound.
- **Channel Crosstalk:** High channel crosstalk exceeding 85dB ensures minimal interference between different audio channels.
- **Dynamic Range:** The dynamic range is greater than 94dB, which signifies the system's ability to handle both quiet and loud sounds without distortion.
- **Mounting:** The unit is designed for installation in a standard 19-inch equipment rack, a common mounting method for professional audio equipment.
- **Dimensions:** The device is compact, measuring 483mm long x 260mm wide x 43.6mm high.
- **Weight:** It is lightweight at only 3kg, making it easy to transport and install.
- **Color:** The unit comes in black.

AW CUT201 & AW DUT202

Wireless Discussion System



Conference Discussion Units:

Features & Functions

- **Advanced Digital Network:** Compliant with industry standards (IEC 60914, GBT 15381-94), these units utilize a unique AUDIO-LINK technology for full-digital signal transmission and processing. This eliminates interference from common devices like cell phones, ensuring crystal-clear audio throughout the discussion.
- **Simplified Cabling:** A single CAT5 cable efficiently transmits 64 audio channels and control signals, reducing setup complexity and simplifying maintenance.
- **Robust "Hand-in-Hand-Loop-Network":** This innovative network design ensures the system functions flawlessly even when discussion units are rearranged or experience malfunctions. This provides unmatched reliability for dynamic conference environments.
- **Stylish Design with Intuitive Touch Interface:** The units boast a sleek, low-profile design with a user-friendly touch interface for effortless control during discussions.
- **Flexible Microphone Connections:** Microphone connections are strategically placed to accommodate various installation requirements, offering versatility for different conference room layouts.
- **Standardized Connections for Easy Management:** The system employs commonly used connectors like CAT5e and RJ45, ensuring wider compatibility with existing infrastructure and simplifying project management for both installation and maintenance.
- **Integrated High-Fidelity Loudspeaker:** An integrated high-quality speaker delivers crisp and clear sound reproduction.
- **High-Visibility Display:** The units feature an OLED screen for excellent brightness, contrast, and wide viewing angles, all while maintaining low power consumption for environmentally conscious operation.

- Headset Compatibility: Dual headset jacks with adjustable volume provide additional listening options for participants.
- Dual Headset Compatibility with Volume Control: Dual headset jacks with adjustable volume provide additional listening options for participants who may prefer a more personalized audio experience.

User Interface

- Visual Cues: A two-colored LED ring on the microphone offers instant feedback. Red indicates the user is speaking (active), while green signifies a request to speak
- Informative Display: A high-resolution (128x32 pixels) OLED display keeps participants informed with details like:
 - A clock for keeping track of time during meetings.
 - A microphone activation timer to see how long someone has been speaking
 - MIC ON/OFF status for clear visual confirmation.
 - Potentially other useful information depending on the model.
 - A volume bar for monitoring audio levels
- Dedicated Chairman Controls: The chairman unit features separate buttons for:
 - Priority speaking: Allows the chairman to take control of the conversation even if someone else has requested to speak.
 - Granting consent to delegates: Enables the chairman to authorize other participants to speak.
- Discreet Power Management: The power button is cleverly hidden on the left side of the unit for a clean and uncluttered look.

Connectivity

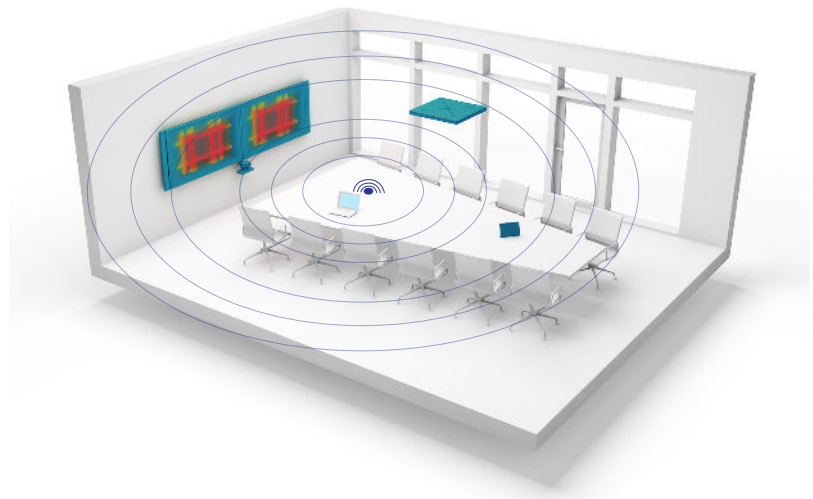
- Detachable Microphone: The goose neck microphone base allows for flexible positioning and optimal sound capture.
- Dual Headphone Jacks: Two 3.5mm stereo headphone jacks provide participants with the option to listen privately on either side, with individual volume control for each.
- External Audio Integration: A 3.5mm stereo input jack allows for connecting an external audio source, expanding content sharing possibilities.
- Optional Battery Power: A conductor enables connection to an external battery pack, ideal for situations where a permanent power outlet might not be readily available.
- Reliable Power Supply: A DC connector ensures stable power delivery to the unit.

Technical Specifications

- **Touch Controls:** The unit utilizes a modern touch interface for intuitive control, eliminating the need for physical buttons.
- **Microphone Technology:** The microphone leverages a heart type capacitance design for effective sound pickup.
- **Display Resolution:** The OLED display boasts a resolution of 128x32 pixels.
- **Microphone Sensitivity:** The microphone has a sensitivity of -46 dBV / Pa, ensuring it can capture even quiet voices.
- **Low Power Consumption:** The unit operates efficiently, with a maximum power consumption of only 2.0 watts.
- **Microphone Directivity:** The microphone exhibits a directional pickup pattern, with 0° and 180° responses being at least 20 dB stronger than off-axis response at 1 kHz, focusing on the speaker's voice.
- **Headphone Compatibility:** The headphone jacks can accommodate headphones with an impedance of 16Ω.
- **Headphone Output Power:** The headphone jacks can deliver up to 10mW of power.
- **Standard Headphone Jack:** The unit utilizes standard 3.5mm stereo headphone jacks for broad compatibility.
- **Audio Input Impedance:** The audio input jack has an impedance of 2kΩ.
- **High Signal-to-Noise Ratio:** The unit boasts a signal-to-noise ratio (SNR) of 70dB, indicating a clear audio signal with minimal background noise.
- **Wide Frequency Response:** The microphone can pick up a wide range of frequencies from 20Hz to 20,000Hz, capturing the full spectrum of human hearing.
- **Low Background Noise:** The equivalent noise level is a low 20dBA (SPL), ensuring minimal disruption from ambient noise.
- **Durable Construction:** The unit is constructed of ABS plastic for long-lasting use.
- **Operating Temperature:** Operable in temperatures ranging from 0°C to 55°C (32°F to 131°F).
- **Color:** The unit comes in black for a professional look.
- **Max. Sound Pressure:** The microphone can handle sound pressure levels up to 125dB (THD <3%).
- **Weight:** The unit weighs 1.1kg (2.4 lbs) with the microphone attached.
- **Dimensions:** The unit measures 195mm long x 120mm wide x 60mm high.

AW AP 4U

Conference Access Point



Conference Access Point:

Features & Functions

- Effortless Integration: Connect the AP directly to a Wi-Fi conference processor (avoiding specific model names) or a switch for system expansion. This allows you to adapt the setup to the size and layout of your conference space.
- Broad Coverage: Enjoy a typical coverage range of 30 meters, providing a strong signal for participants throughout the designated area.
- High Capacity: Each access point can connect up to 50 conference units, ideal for medium-sized to large conferences.
- Versatile Mounting Options: Choose from ceiling, wall, or stand rack mounting for optimal signal strength and minimal visual impact.
- Advanced Data Protection: State-of-the-art encryption safeguards sensitive conference data during transmission (avoiding specific encryption details).
- Real-Time Monitoring: LED indicators provide clear visual feedback on signal strength and power status for effortless monitoring.
- Reliable Connectivity: 5GHz dual-band communication delivers a stable and dependable wireless connection, minimizing interference and optimizing data transmission speed.
- Simplified Installation: Power over Ethernet (PoE) eliminates the need for a separate power supply, streamlining setup.
- Wired Network Integration: An RJ45 port offers an additional option for wired LAN connection.

Technical Specifications

- Standards: high-speed data transmission, along with backward compatibility with IEEE802.11a, IEEE802.11g, and IEEE802.11b to ensure seamless integration with various devices.
- Frequency: 5GHz UNII band (less congestion, stable connection).
- Power: 27dBm ensures ample signal strength to cover a designated conference space effectively.
- Antennas: 4 built-in 5dBi antennas for reliable and seamless wireless coverage.
- Power Consumption: Low (± 12 watts).
- Network Ports: 2×Gigabit ports (1×WAN/PoE, 1×LAN) for 1200Mbps high-speed data transferring.
- IP Addressing: DHCP (Dynamic Host Configuration Protocol) for automatic IP address assignment or Static IP for a manual configuration.
- Cable Compatibility: Cat5e (shielded/unshielded) can be used for up to 100 meters long connection.
- Connectors: RJ45 (most commonly used secure network connection type).
- LED Indicators: Dedicated LED indicators for WAN/PoE port (up link) and the LAN port (down link)
- Status LEDs: Integrated LED indicators provide real-time feedback on the operational state of the access point.
 - WAN/PoE Port (Up LED): Monitors the up link connection.
 - LAN Port (Down LED): Indicates activity on the wired network connection.
 - Power, Network, Wireless (Yellow/Blue): Displays the overall status of power, network connectivity, and wireless activity (with color differentiation for clarity).
 - A conveniently located reset button allows for a simple factory reset (if needed).
- Dimensions: Compact (220 x 220 x 45 mm).
- Color: White (blends seamlessly).
- Weight: Lightweight (0.3 kg) for easy handling.
- Mounting: Ceiling, wall, or stand rack for optimal placement.

AW RBT

Battery pack for wireless unit



Rechargeable Battery for Discussion Unit

Features & Functions

- Long-lasting performance: The discussion unit boasts a long-life, reliable battery that ensures stable operation throughout extended conferences.
- Extended use: Enjoy up to 24 hours of continuous use on a single full charge, maximizing productivity during meetings.
- Efficient charging: The unit utilizes efficient lithium batteries that recharge quickly, requiring only 4 hours to reach full capacity.
- Pop-up pin contactor: This innovative design ensures a secure and reliable connection between the discussion unit and the charging base, preventing interruptions.
- Buckle housing: The unit features a secure buckle housing that minimizes the risk of accidental dislodging or dropping, protecting both the unit and the charging contacts.

Technical Specifications

- Capacity: 5000mAh with up to 24hr backup time
- Output Voltage: 7.2VDC compatible with charging systems.
- Weight: 285g light weighing and portable battery.
- Operating Temperature: -20°C to 60°C various environments adaptability.

AWB CH8

Charger for battery



Charger for Rechargeable Battery

Features & Functions

- **Fast Charging:** Get your batteries back up and running quickly with a three-hour charging time.
- **High Capacity:** The charger can handle up to eight batteries simultaneously, perfect for large conferences or venues with multiple units.
- **Universal Power Input:** The charger features a wide range power input (100V-240V AC), allowing for use with outlets worldwide.
- **Secure Buckle Housing:** The innovative buckle design prevents accidental dislodging or dropping of batteries, protecting both the equipment and the user.
- **Pop-up Pin Contactor:** This design ensures a reliable and secure connection between the battery and the charger for uninterrupted charging.

Technical Specifications

- **Power Input:** 100 ~ 240VAC 50 ~ 60HZ wide power input range
- **Power Consumption:** 20W of energy saving low power consumption.
- **Power Output:** 7.2V/1000mA ensures safe and efficient charging.
- **Battery Dimension:** 320Lx200Wx50H(mm) compact design for easy placement.
- **Weight:** 2KG lightweight charger emphasizes the ease of carrying

Application Diagram

