Datasheet

ACS-WLCCU | Network DSP Wireless Conference Control Unit



Key features

- AUDIOSYS Digital Ring Network: Ensures full-digital signal transmission and processing.
- CAT5e Cable: Transmits up to 64 audio channels and additional signals.
- Independent Audio and ID Output: Supports voice recognition with high-fidelity sound (48K sampling rate, 20Hz-20KHz frequency response).
- Conference Room Control: Manages and merges up to 4 rooms, with optional cascading for larger setups.
- Hand-in-Hand-Loop-Network: Maintains system reliability even with unit changes.
- Adjustable Microphone and EQ: Independent control over microphone sensitivity and 8-band equalization.
- Advanced Audio Features: 16-band EQ, noise gate, AGC, AFC, and auto-mix technology.
- Zone-Based Sound Output: Automatic volume adjustment for extended pickup range.
- Echo Cancellation: Supports real-time communication with other controllers or video systems.
- USB Recording and Monitoring: Advanced noise cancellation for clear recordings.
- System Management: Includes date, time management, and countdown speech.
- Optional DANTE Module: For compatibility with other DANTE equipment.
- POE Speaker Support: Drives 2x120W POE speakers, with support for up to 16 POE speakers.

Product Overview

The Macsys ACS-WLCCU Network DSP Wireless Conference Control Unit offers advanced management and scalability for large conferences. Compliant with IEC 60914 and GBT 15381-94 standards, with the Expantion unit to support up to 5200 discussion units. The unit features "Hand-in-Hand-Loop-Network" technology to ensure reliable performance with independent unit IDs. It supports both wired and wireless discussion units, with up to 8 wireless microphones operating simultaneously using adaptive interference-avoiding technology.

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The ACS-WLCCU includes 2-channel audio inputs, up to 8-channel audio outputs, and flexible connectivity options. It provides advanced features such as multi-way internal communication, TCP/IP connectivity, RS232/RS485 control, and automatic system recovery. The unit supports various discussion modes, voting options, and simultaneous language interpretation. It also features advanced audio processing, including 16-band EQ and noise cancellation, with optional DANTE and POE speaker support for enhanced functionality. with options for XLR, RCA, or Phoenix connectors. The unit features adaptive interference technology, multiple discussion modes, and advanced audio processing including 16-band EQ, noise gate, AGC, and echo cancellation. It also offers USB recording, real-time remote communication, and can drive up to 16 POE speakers. With support for cascading multiple controllers, it can handle the merging and separation of large conference setups, ensuring versatile and reliable conference management.

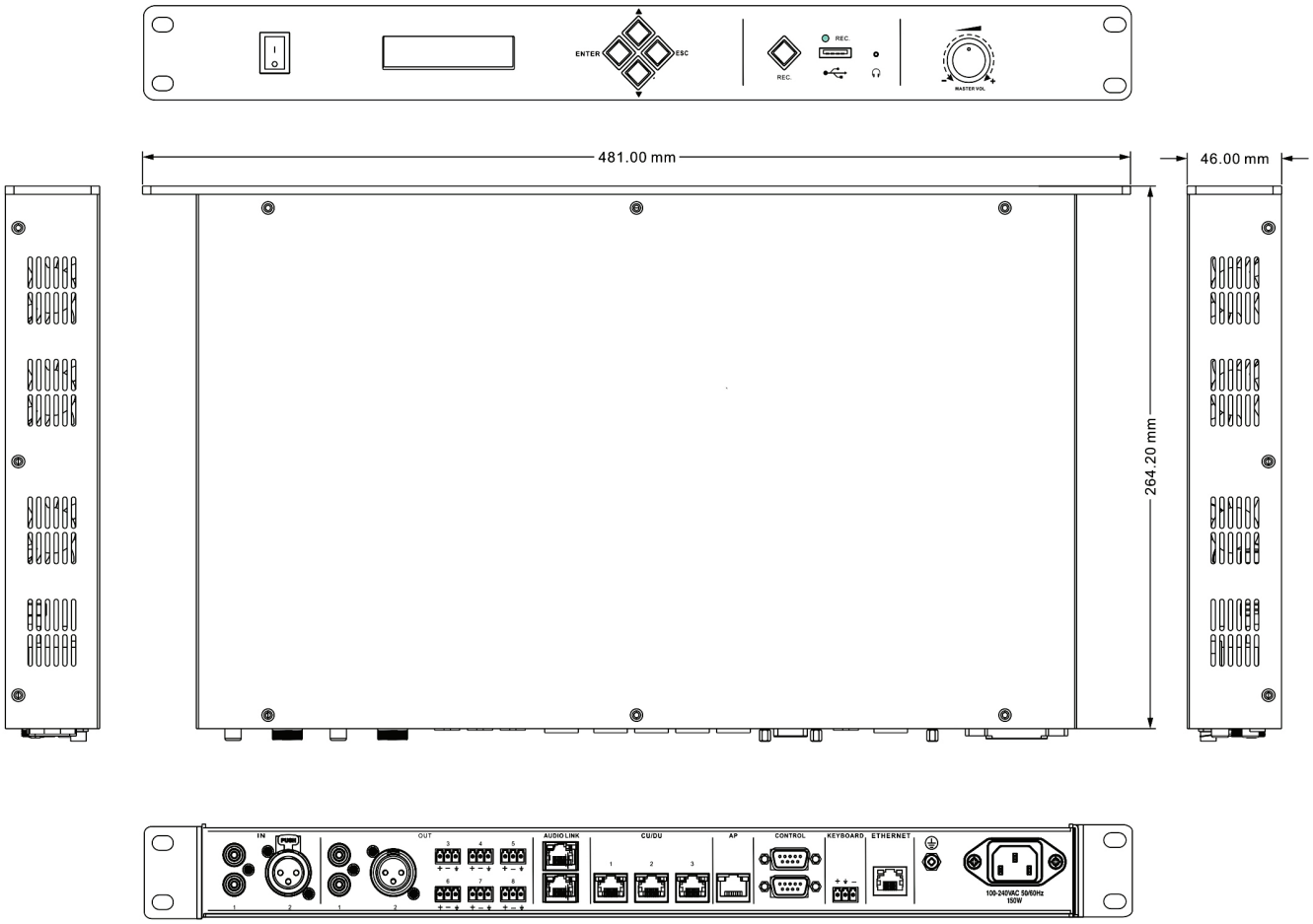
Techinical Specification

Featues	Detail
Frequency response	20Hz-20KHz
S/N ratio	> 96dBA
THD	< 0.05%
Channel crosstalk	> 85dB
Dynamic range	> 94dB
Display	LCD16x02
Network control	RJ45 connected to PC; TCP/IP
Wireless standard	WIFI 802.1n
Security	WPA2-PSK AES
RF band	5.2-5.8GHz
Max active delegate mics	1/2/4
Camera control	RS-232/UDP; Camera Tracking Protocol: PELCO-P/PELCO-D/VISCA
Audio inputs (max level)	LINE IN 1: +10dBu; LINE IN 2: +10dBu
Audio outputs (max level)	LINE OUT 1: +12dBu BAL; LINE OUT 2: +12dBu BAL; LINE OUT 3: +12dBu BAL; LINE OUT 4: +12dBu BAL
Output impedance	> 1kΩ
Interfaces (front)	USB Slot; Headphone Socket; Audio Recording button; Knob
Interfaces (rear – audio)	Audio Inputs IN1 (RCA), IN2 (XLR); Audio Outputs OUT1 (RCA), OUT2 (XLR), OUT3–OUT8 (Phoenix)
Interfaces (rear – system)	AUDIOSYS; CU/DU; AP; Control (DP9 female/male); Keyboard; Ethernet; Ground; Power inlet
DSP options	AFC-ANC: 6dB,12dB,18dB,24dB,Off; AFC Enable: On/Off; AFC-Lever: 1,2,3,4,5; AEC Enable: On/Off; AEC-ANC: 3dB,5dB,7dB,9dB,11dB,13dB,Off
Recording quality	32, 64, 96, 128 kbps
Zoning ranges	ID zone per Out 1–4: 0 to 4000; Zone 1–4 Gain: 0 to -40dB, Mute
MIC modes	Override, Open, Voice, Apply
Optional module	Optional DANTE output module with other DANTE equipment used
Speaker Limit	1/2/4 speakers, maximum of 6 persons
Power Supply	100V / 240V AC
Idle Power Consumption	12W
Peak Power Consumption	150W
Mounting	19" standard rack

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Featues	Detail
Operating/storage temperature	0°C-45°C / 20°C-50°C
Dimensions (mm)	483L × 260W × 43.6H
Weight	3kg
Color	Black
Certifications	CE, RoHS compliance

Dimension



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