



ATUC-50CU Control Unit



Features

- Powers up to 50 discussion units.
- Cascade capability to handle up to 150 discussion units.
- 4 configurable balanced outputs plus Output 1 mirrored to unbalanced output.
- 2 Mic/Line In + 2 Aux In + 2 Return In.
- 2 Return In channels handle Floor + 2 additional languages.
- Conference Mode: Free Talk, Request to Talk and Full Remote.
- Override settings: LIFO, FIFO and Non-Override.
- 'Mic On' trigger: Manual or Voice activation.
- Web remote interface facilitates pre-meeting system setup and management of the live discussion through a web browser.
- Built-in WAV and MP3 recorder to external USB memory devices, up to 4 channels (2 channels only in MP3).
- Built-in feedback suppressor and processing for optimal audio quality.
- Fully digital system with future-proof upgrade capability.
- Gain sharing algorithm substantially reduces the risk of feedback while maintaining a natural sound.

Description

The **ATUC-50CU** has multiple modes that allow the system to adapt to any discussion situation, including Free Talk mode, Request to Talk mode, Full Remote mode, and various override settings. Automated gain control (AGC), mic gain and mic EQ settings are available for each individual discussion unit. Settings can be saved as presets and easily recalled before the start of each meeting.

The control unit can also be programmed to work via Web Remote Control, which enables the user to configure and operate the system from a computer or mobile device. IP Control allows full parameter access from most third-party control systems.

The **ATUC-50CU** is equipped with an audio recorder that can record MP3 or WAV files of 2 GB or less onto a connected USB mass storage device (2 TB max. storage capacity).

When the 2 GB limit is reached, a new file can be created to continue recording. Up to four channels are available for recording WAV files; up to two channels are available for recording MP3s. The front panel of the **ATUC-50CU** offers several indicator LEDs to display status of USB access, recording, discussion unit power, discussion unit chain, control unit link, remote control, and audio signal level. The OLED display shows system settings that can be adjusted by using the jog dial and back button.

Specifications

Dynamic range	110 dB A-weighted
I/O connectors	Inputs: MIC/LINE x 2, AUX (ST), Interpretation Return x 2 Outputs: Balanced x 4, Unbalanced x 1 LINK/CHAIN: DU A/B terminals, CU A/B terminals (DU C/D terminals)
Recording (via USB)	WAV: 1/2/3/4 track with CUE point (BWF standard) MP3: 1/2 track with CUE point (Original format) MP3 bit rate: 64kbps / 128kbps / 192kbps / 256kbps / 320kbps
Resolution/Sampling frequency	24bit/48kHz
Latency	1ms *MIC Input to Output / 1.2ms *DU to CU
Frequency response	+ 1.0, - 2.0dB, 20Hz~20kHz, refer to +4dBu output @ 1kHz
Dynamic range	110dB A-weighted
Signal to noise	90dB A-weighted
Headroom	20dB
Equivalent input noise	Mic/Line 1-2, less than -126dBu, Rs=150 ohm
Residual noise	Less than -86dBu, A-Weighted
Total harmonic distortion	Less than 0.03% @1kHz unity
Crosstalk @1kHz	Less than -80dB
OLED display	20x2 Character type, Color: Yellow, Operating life time: 100,000 hours
Phantom power	DC +48V
Power requirement	AC 100V~240V 50/60Hz
Power consumption	20W ~ 175W (max.)
Operation temperature	0~40°C
Operation humidity	25~85%
Dimensions (1 RU)	482.6mm x 331.6mm x 44mm (W x D x H)
Net weight	3.4kg
Finish	Front panel - Black, Top & Rear - Black
Included accessories	AC power cord, Quick Setup Guide x 2, Euroblock connectors x 9, Warranty Sheet

Specifications are subject to change without notice.