

audio-technica



ATUC-50

Full-Featured Digital Conference System





ATUC-50 Key benefits

• Feedback suppression and individual DSP for enhanced audio quality

• Premium Sound quality and speech intelligibility

• Multi-lingual web remote based remote control

- Paintable top panel
- Plug and play installation
- Five Year Warranty
- Secure and reliable
- Cost effective
- Ease of use





ATUC-50 A New Class of Conferencing

You choose the scale and complexity of your communication needs and in return the ATUC-50 Discussion System gives you reliable, crystal-clear speech reproduction from a system that couldn't be simpler to set up and use.

From small gatherings in a meeting room to medium/large-scale conferences, the ATUC-50 is designed to be easily configured – and reconfigured – while providing the professional sound quality and advanced controls that will enable you to adapt it to any number of discussion settings.

The ATUC-50 is the first with individual DSP for each discussion unit for real-time adjustment during conferences. The premium audio performance and high intelligibility results in a more engaging and less tiring conference experience. The system is easy to operate via a PC, mac or any tablet (windows, iOS, android), and the intuitive web remote control works on all web browsers.

The ATUC-50 enables full IP integration into 3rd party control systems. More functionality, higher performance and better value than other products.





Control Unit ATUC-50CU

MAX SYSTEM SIZE 300 USERS

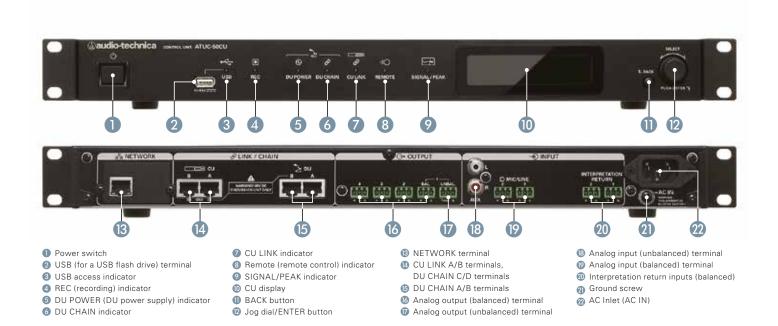
The heart of the ATUC-50 system

- Supports up to 100 discussion units.
- Cascade capability to handle upto 300 discussion units and a max of six interpretation units for upto 3 spoken languages in the meeting.
- 4 configurable balanced outputs plus output 1 mirrored to unbalanced output.
- 2 Mic/Line In + 1 Aux In + 2 Return In.
- Three language simultaneous interpretation.
- 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 channel MP3).
- Built-in feedback suppressor and digital audio processing (DSP).
- Gain sharing algorithm substantially reduces the risk of feedback while maintaining a natural sound.

Specification:

Specifications are subject to change without notice.

Specifications			
I/O connectors	Inputs: MIC/LINE x 2, AUX (ST),		
	Interpretation Return x 2 Outputs: Balanced x 4, Unbalanced x 1		
Recording (via USB)	LINK/CHAIN: DU A/B terminals, CU A/B terminals (DU C/D terminals) WAV: 1/2/3/4 track with CUE point (BWF standard)		
Recording (via USB)	MP3: 1/2 track with CUE point (BWF standard)		
	MP3 bit rate: 64kbps / 128kbps / 192kbps / 256kbps / 320kbps		
Resolution/Sampling freq	uency 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 Shee		



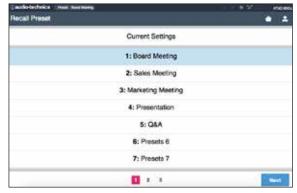
Web Remote Control

ATUC-50

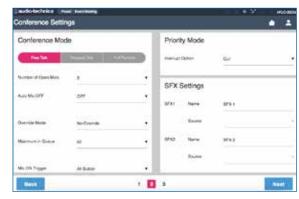
Discussion unit with high-quality audio

The ATUC-50's Web Remote Control function is a web application with a multi-language UI that allows you to configure and operate the system from a computer or mobile device using a standard web browser and without needing to load software. From the application's home screen it is possible to configure detailed settings of the system, recall and adjust presets before starting a conference.

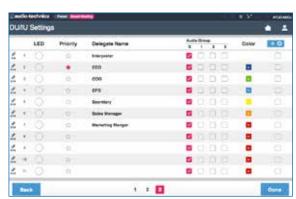
- Accessible from web browser on Mac, PC, iOS and Android tablets.
- No need to install addition software.
- Intuitive licence free software based on Google Material design principles.
- Multi lingual user interface (with a choice of 10 preloaded languages and the possibility to upload two additional languages).
- General system settings with the system upgrade facility.
- Network settings.
- Administrator and Operator access levels, with optional password protection.
- Configuration of conferencing and audio parameters for the control unit.
- General and individual discussion unit (ATUC-50DU) and integration unit (ATUC-50IU) settings.
- Assignment of the preprogramed functionalities to the GPIO's of the priority ATUC-50IU integration units.
- Configuration of the interpretation settings.
- Configuration of recording settings and control of (start, stop, pause) recording sessions.
- Creation of conference presets.
- Three different audio special effects, assignable for each preset.



Preset



Conference Setting



Discussion Unit Setting





Conference Manager

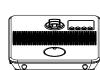
Discussion Unit

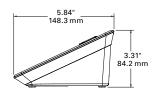
ATUC-50DU

Discussion unit with high-quality audio

- Configurable user type unit e.g. delegate, chairman, VIP.
- Microphone connector compatible with standard 3-pin XLR microphones.
- Low Noise (EIN: -121 dBu) microphone preamp using discrete transistors, with individual adjustable gain control.
- Multi colour RGB rear LED bar for general visualisation purposes.
- Multi-colour LED on the speak button for user's colour preferences.
- LED display for volume control and listening channel selection.
- High quality speaker for enhanced speech intelligibility.
- 24-bit / 48kHz High Resolution Audio.
- Multiple independent indicator (multi-coloured RGB LED bar on rear of Discussion Unit and LED on the talk button).
- Clear LED display for volume control and listening channel selection.
- 2 x RJ45 Port for connecting to the Control Unit and other Discussion Units and 1x expansion terminal for future options.
- 1 x stereo mini jack headphone output.









Specifications

Dynamic range	107 dB A-weighted	
Frequency response	+ 1.0, - 2.0dB, 20Hz - 20kHz, refer to +4dBu output @ 1kHz	
Audio sampling	24 bit/48 kHz	
Signal-to-noise	87 dB, A-weighted	
I/O connectors	Inputs: MIC (Neutrik XLR-F) - Outputs: Headphones x 1 LINK/CHAIN: DU RJ45 A/B terminals	
Headroom	20 dB	
Equivalent input noise	Less than -121dBu, Rs=150 ohm	
Total harmonic distortion	Less than 0.07% @1kHz unity	
Phantom power	DC +24V	
Power supply	DC +48V	
Power consumption	2.2 W	
Operation temperature	0-40° C	
Operation humidity	25-85%	
Dimensions (W x D x H)	135mm x 148.3mm x 84.2mm	
Net weight	570g	
Finish	Top panel: Charcoal grey - Enclosure: Black	
Included accessories	Quick setup guide, warranty sheet	

Microphones ATUC-M43H and ATUC-M58H

Specially designed 3-pin microphone with LED Ring

- Unique 3-pin balanced microphone with remote red LED ring offering high sound quality and user flexibility.
- Patent-pending design isolates the microphone connector from the Discussion Unit socket.
- Double layer pop filter (inside microphone and detachable wind screen).
- RFI-shielding technology offers outstanding rejection of radio frequency interference (RFI).
- Two lengths available (430mm, 580mm).

	ATUC-M43H ATUC-M58H		
lement	Fixed-charge back plate, permanently polarized condenser		
olar pattern	Hypercardioid		
requency response	100-15,000Hz		
Open circuit sensitivity	-40 dB (10.0 mV) re 1V at 1 Pa		
Maximum input sound level	134 dB SPL, 1 kHz at 1% T.H.D.		
ignal-to-noise ratio	64 dB, 1 kHz at 1 Pa		
mpedance	250 ohms		
inish	Low-reflectance black		
Dimensions	Ø18.9×430 Ø18.9×580		
Veight	82g	92g	



Integration Unit **ATUC-50IU**

- The integration unit is a microprocessor unit for custom designed flush mount conference units.
- The unit is of compact robust metal casing with the fixing ears with holes, perfectly designed to fit the installation under the table, inbetween the armrest of the chairs underneath the elevated floor or any other hidden place.
- With 39 Euro block pins the unit features an output for microphone with red lighting ring signalling, loudspeaker, minijack, 3 language channel selector for the headphone, volume control of the headphone output, speak button, priority/ mute button, 5V power outlet and 16 GIPOs.
- When the system is controlled by the CU via the web remote than the IU unit with no priority would have only one GPIO and that is the "self-mute"
- When the system is controlled by the CU via the web remote than the
 up to 9 IU units with priority can get assigned a variety of preprogramed
 GPIOs such as: next on, master volume up and down, start and stop
 recording, up to 8 presets, up to 3 SFX special sound effects.
- When the IP control is applied to the system the GPIO's of all the
 units regardless the priority level, can be custom programmed to the
 functionalities one's desires functionalities as e.g. external voting (up to
 8 buttons) and many others.



Specifications

opecinications		
Dynamic range	106dB A-Weighted	
Frequency Response	+1dB/ -2dB 20Hz — 20kHz, +4dBu input @ 1kHz	
Audio Sampling	24bit / 48kHz	
Signal-to-Noise Ratio	86dB, A-Weighted	
Headroom	20dB	
Phantom Power	DC +48V	
Power Requirement	DC +48V	
Power Consumption	3.4W	
Operating Temperature	0-40°C	
Connectors	2x RJ45, 39 pin on EuroBlock	
Dimensions	116 x 173 x 25mm	
Weight	460g	



Interpretation Unit ATUC-50INT

- This unit enhances the ATUC-50 system with 2 or 3 cost effective language simultaneous interpretation
- The unit in its simplicity does not require trained personae or extensive training to learn how to operate it.
- The unit has buttons for the incoming, out-going language choice and the control volume buttons
- Stereo mini jack outlet for the headphone and 3 pin XLR plug for the microphone
- The unit features both direct and relayed simultaneous interpretation
- There can be 2 units per language and in total 6 units in system
- \bullet The unit can be programmed to work either uni-directional L1 -> L2 or bi-directional L1 <->L2 way.
- With 2 INT unit per language it is possible to choose how would they interact one with each other: interlock, no-interlock or combine.
- The INT units can be seamlessly combined with any other contribution conference unit, DU and IU.

Specifications		
Dynamic range	107 dB A-weighted	
Frequency response	+ 1.0, – 2.0dB, 20Hz^20kHz, refer to +4dBu output @ 1kHz	
Audio sampling	24 bit/48 kHz	
Signal-to-noise	87 dB, A-weighted	
I/O connectors	Inputs: MIC (Neutrik XLR-F) - Outputs: Headphones x 1 LINK/CHAIN: DU RJ45 A/B terminals	
Headroom	20 dB	
Equivalent input noise	Less than -121dBu, Rs=150 ohm	
Total harmonic distortion	Less than 0.07% @1kHz unity	
Phantom power	DC +24V	
Power supply	DC +48V	
Power consumption	2.2 W	
Operation temperature	0-40°C	
Operation humidity	25-85%	
Dimensions (W x D x H)	135mm x 148.3mm x 84.2mm	
Net weight	570g	
Included accessories	Quick setup guide, warranty sheet	



Link Extender

ATLK-EXT165



- The ATLK-ETX165 provides additional power to the ATUC-50 system where the interactive connectivity chart indicates the placement the unit is required.
- The unit is equipped with the mains input, and 2 x RJ45 outlets
- The LED indicators indicate which chain is engaged and the red LED indicates that the unit is powered on
- The unit has a switch that enable remote switching on and off in relation to the ATUC-50CU.
- Robust metal cased unit is adapted to the placement in hidden places
 e.g under the floor, under the table, or wherever else the unit is required
 supply the ATUC-50 installation with required power.

Specifications

I/O Connectors	Outputs	LINK power status
	Chain	DU port A/B
Power requirement		AC 100V-240V 50/60Hz
Power consumption		15W-160W (MAX)
Operation temperature		0-40°C
Operation humidity		25-85%
Dimensions (W x D x H)		217mm x 326mm x 41mm
Net Weight		2.2kg
Finish	Front panel	Black
	Top & Rear	Black
Included Accessories		AC Power Cord, Quick Guide, Euroblock connectors (1pcs), Table mount kit, Warranty
		·

Simple, reliable and full-featured digital discussion system

Whatever your conferencing or discussion needs, the ATUC-50 is designed to offer reliable, clear and intelligible communication to significantly increase meeting efficiency and effectiveness.

Voice is the quickest and most efficient tool medium for exchanging ideas - whether in meeting rooms, in councils, in classrooms or through videoconference, speech is the most direct way of communication and understanding.

Audio-Technica's new wired ATUC-50 conference system is designed to offer a reliable and effective way to speak and to be heard.

Ease of use

Using standard Cat 5e (and above) cabling, the ATUC-50 system connects easily through a daisy chain or ring topology.

The Web Remote Control Interface allows quick and easy configuration, plus management directly from any web browser, without need to install dedicated software.

The on-board audio recorder can support up to 4 discrete channels for easy archiving without the need of an external recording device.

All settings can be saved as presets and easily recalled before the start of each meeting.

Reliability

For added redundancy the ATUC-50 can be configured using a ring topology.

The Web Remote Control Interface allows two user permission levels to avoid any unwanted access or accidental programming changes.

| Flexibility

Advanced configuration can be used to tailor the system to the users' needs. Each configuration can be saved and recalled instantly.

Multiple modes such as 'Free Talk', 'Request To Talk', 'Full Remote'; various 'override settings': 'LIFO', 'FIFO' and 'Non Override'; and flexible 'Mic On trigger mode': manual or voice activation; allow for adaption to each and every situation.

IP Control allows full parameter access from most third party control systems.

Floor plus 2 Interpretation channels answer today's need in contemporary meeting rooms.

Sound quality and Speech Intelligibility

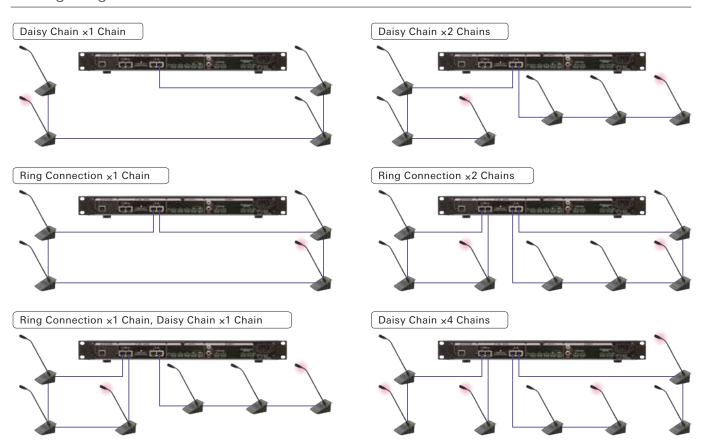
Individual Mic Gain and EQ to adjust each participant's voice.

24-bit/48kHz uncompressed digital audio for natural sounding voice reproduction.

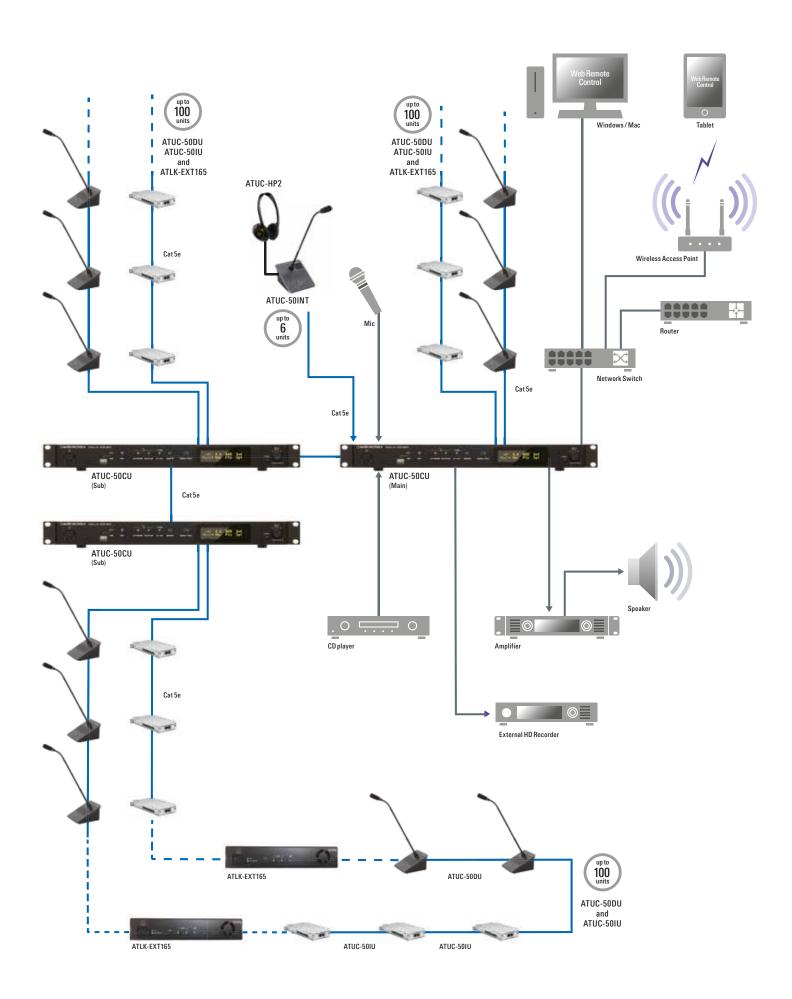
12 band feedback suppressor allows higher volume levels without causing feedback.

Dynamic processing and 8-band parametric EQ on the main Analog output.

Wiring Diagrams







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