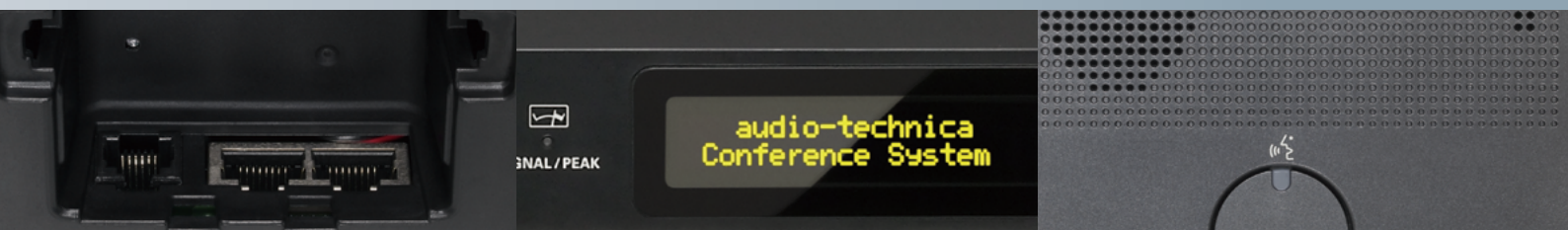




ATUC-50

Digital Full-Featured Discussion Solution



- Excellent speech intelligibility with built-in feedback suppressor and voice processing on individual discussion units
- Up to 150 discussion units
- Daisy chain or ring topology connection through Cat 5e and above cables
- Voice activation mode for free discussion plus a variety of manual modes
- Built-in audio recorder to external USB memory devices
- Control available through web remote interface and third party control systems
- Expandable and scalable system design



Digital
Full-Featured Discussion
Solution

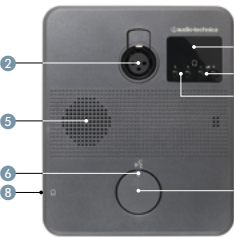
ATUC-50

PRODUCT INFORMATION

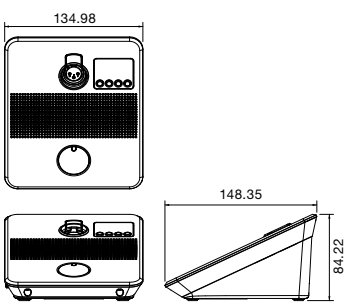
Discussion Unit ATUC-50DU

Discussion unit with high-quality audio

- Individually programmable multi-profile versatile unit: Delegate or Chairman
- Unit connector compatible with standard 3-pin XLR microphones
- Low Noise (EIN:127dB) microphone preamp using discrete transistors, with individual (per discussion unit) adjustable gain control
- High quality speaker for enhanced speech intelligibility
- 24-bit/48 kHz audio quality
- 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
- Optional, removable weight plate for improved stability
- 2x RJ45 Port for connecting to the Control Unit and other Discussion Units and 1x expansion port for future options
- 1x Headphone output



- 1 DU display
- 2 Microphone connector
- 3 </> (monitor channel) buttons
- 4 -/+ (headphone) buttons
- 5 Built-in speaker
- 6 (talk) LED
- 7 (talk) button
- 8 Headphone jack
- 9 Rear LED
- 10 External device connection terminal
- 11 Chain connection terminals



I/O connectors	Inputs	Mic×1
	Outputs	Headphones×1
	CHAIN	DU/CU terminals
Resolution/ Sampling frequency	24bit/48kHz	
Frequency response	+1.0, -2.0dB, 20Hz~20kHz, refer to +4dBu output @1kHz.	
Dynamic range	107dB, A-Weighted	
Signal to noise	87dB, A-Weighted	
Headroom	20dB	
Equivalent input noise	Less than -121dBu, Rs=150ohm	

Total harmonic distortion	Less than 0.07% 1kHz unity
Phantom power	DC+24V
Power requirement	DC+48V
Power consumption	2.2W
Operation temperature	0~40°C
Operation humidity	25~85%
Dimensions (W×D×H)	135mm×148.3mm×84.2mm
Net Weight	570g (900g including the optional bottom weight)
Finish	Top panel/Gun metal, Enclosure/Black
Included Accessories	Quick Setup Guide, Warranty

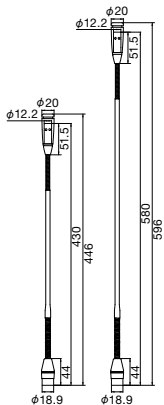
Microphone ATUC-M43H

Microphone ATUC-M58H

Specially designed 3-pin Microphone with LED Ring

- Unique 3-pin balanced microphone (PAT.P) with remote controlled LED ring offering both 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)

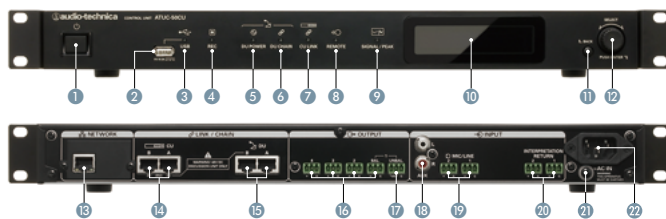
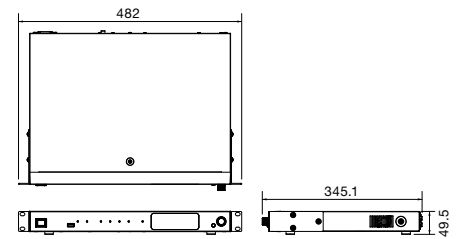
	ATUC-M43H	ATUC-M58H
Element	Fixed-charge back plate, permanently polarized condenser	
Polar pattern	Hypercardioid	
Frequency response	100~15,000Hz	
Open circuit sensitivity	-40 dB (10.0 mV) re 1V at 1 Pa	
Maximum input sound level	134 dB SPL, 1 kHz at 1% T.H.D.	
Signal-to-noise ratio	64 dB, 1 kHz at 1 Pa	
Impedance	250 ohms	
Finish	Low-reflectance black	
Dimensions	φ18.9×430	φ18.9×580
Weight	82g	92g



Control Unit ATUC-50CU

The heart of the ATUC-50 system

- 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: LIFOR, 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 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



- 1 Power switch
- 2 USB (for a USB flash drive) terminal
- 3 USB access indicator
- 4 REC (recording) indicator
- 5 DU POWER (DU power supply) indicator
- 6 DU CHAIN indicator
- 7 CU LINK indicator
- 8 Remote (remote control) indicator
- 9 SIGNAL/PEAK indicator
- 10 CU display
- 11 BACK button
- 12 Jog dial/ENTER button
- 13 NETWORK terminal
- 14 CU LINK A/B terminals, DU CHAIN C/D terminals
- 15 DU CHAIN A/B terminals
- 16 Analog output (balanced) terminal
- 17 Analog output (unbalanced) terminal
- 18 Analog input (unbalanced) terminal
- 19 Analog input (balanced) terminal
- 20 Analog input (balanced) terminal
- 21 Ground screw
- 22 AC Inlet (AC IN)

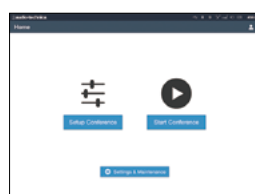
I/O Connectors	Inputs	MIC/LINE×2, AUX(ST) ×1, Interpretation Return×2
	Outputs	Balanced×4, Unbalanced×1
	LINK/CHAIN	DU A/B terminals, CU A/B terminals (DU C/D terminals)
Recording	Via USB	1/2/3/4track (WAV) with CUE point (BWF standard)
	Storage Device	1/2track (MP3) with CUE point (Original format)
	MP3 bit rate	64kbps/128kbps/192kbps/256kbps/320kbps
Resolution/sampling frequency		24bit/48kHz
Latency		MIC Input to Output: 1ms
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=150ohm

Residual noise	Less than -86dBu, A-Weighted
Total harmonic distortion	Less than 0.03% @1kHz unity
Crosstalk @1kHz	Less than -80dB
OLED display	20×2 Character type, Color: Yellow, Operating life time: 100,000 hours
Phantom power	DC+48V
Power requirement	AC 100V~240V 50/60Hz
Power consumption	20W~195W (max.)
Operation temperature	0~40°C
Operation humidity	25~85%
Dimensions (W×D×H)	482.6mm × 331.6mm × 44mm
Net weight	3.4kg
Finish	Front panel/Black, Top&Rear/Black
Included Accessories	AC power cord, Quick Setup Guide×2, Euroblock connectors×9, Warranty

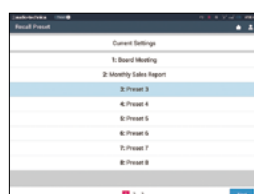
Web Remote Control

Easy control and management through web-based remote access

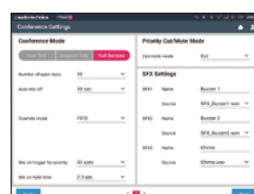
- Accessible from any web browser (Mac, PC, iOS & Android Tablet)
- No need to install any additional software
- User access control with Operator and Administrator privilege
- Setup and configuration: Network Setting, Audio Setting, Mic Setting, Conference Setup, Individual Discussion Unit Setting, etc.
- Conference management: Delegate list, Mic activation, Recording activation, etc.



Home



Preset



Conference Setting



Discussion Unit Setting



Conference Manager

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.

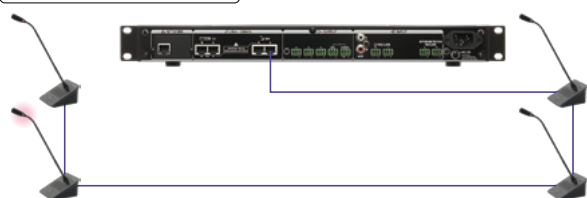
All settings can be saved as presets and easily recalled before the start of each meeting.

Reliability

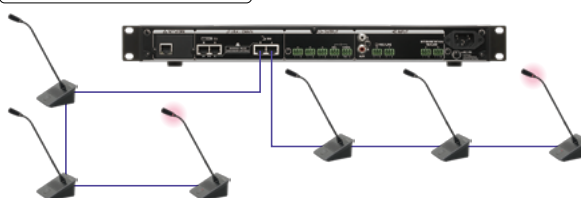
For added redundancy the ATUC-50 can be configured using a ring topology.

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

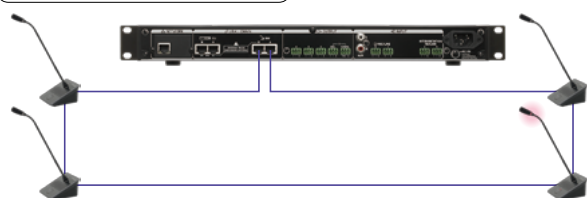
Daisy Chain x1 Chain



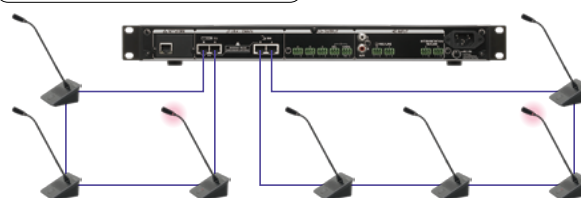
Daisy Chain x2 Chains



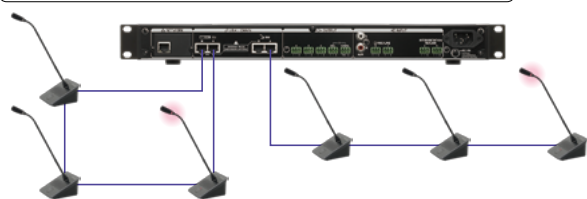
Ring Connection x1 Chain



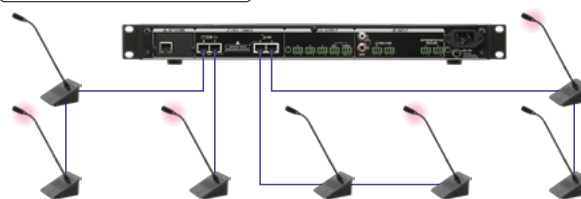
Ring Connection x2 Chains



Ring Connection x1 Chain, Daisy Chain x1 Chain



Daisy Chain x4 Chains



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.

Low Noise (EIN:127dB) mic preamp using discrete transistors.

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.

