Simplicity and Flexibility for Any Application.

No matter the scale or complexity of your communication needs, the ATUC-50 Digital Discussion System gives you reliable, crystal-clear speech reproduction from a system that couldn't be simpler to set up and use.

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

Simply put, the ATUC-50 lets you hear and be heard.

Sound Quality / Speech Intelligibility

The ATUC-50 delivers 24-bit/48 kHz uncompressed digital audio for crystal-clear, natural-sounding voice reproduction. The mic gain and EQ can be adjusted for each ATUC-50DU or ATUC-50INT in order to best serve the voice of each participant. The discussion unit also features a high-quality microphone preamp with discrete transistors to reduce noise. The ATUC-50CU rack-mountable control unit is equipped with a 12-band feedback suppressor that allows higher volume levels without feedback. And the control unit's main analog output can be configured via an eight-band parametric EQ, giving you significant control over the audio's character.

Versatility

With advanced configuration options and the ability to save and recall up to eight preset conference configurations, the ATUC-50 offers plenty of versatility, allowing you to move quickly from one discussion setup to the next. During the discussion session, the system's multiple operation modes – "Free Talk," "Request To Talk," and "Full Remote" – along with various override settings keep the discussion orderly. And with a floor language feed plus two interpretation channels for simultaneous translations, the ATUC-50 lets you to accommodate a diverse gathering of people.

Ease of Use

Despite its high-quality audio and advanced features, the ATUC-50 remains extremely easy to use. The discussion units connect to the control unit in either daisy chain or ring topology with standard Cat5e (or better) cable. Use optional ATLK-EXT165 for extended cable runs. Three control units can be linked, creating a system that supports up to 300 discussion units, integration units, or interpretation units (max of six). Settings and operation can be handled locally at the control unit or through the Web Remote Control feature, which allows quick and easy configuration and management from a web browser on any device (computer, tablet, etc.). Basic on-screen recording buttons (Rec, Pause, Stop) make recording onto a USB mass storage device a breeze, and more advanced recording settings are easily accessible. To make matters even simpler, up to eight conference settings can be preset and recalled from the front panel, software or compatible control system.

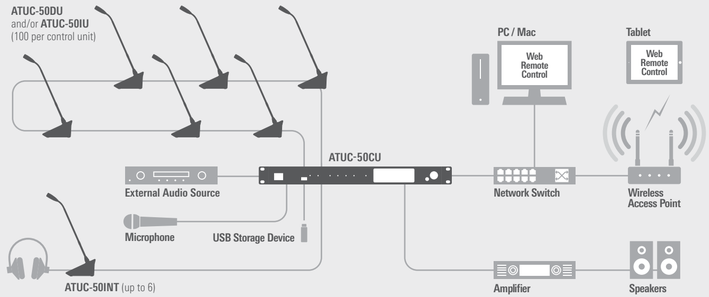
Value

Not only does the ATUC-50 give you incredible versatility, functionality and audio quality in a system that couldn't be easier to use, it's also an incredible value. It would cost you a lot more in time, money and effort to construct a comparable system from various components on the market – and they may never function as well together as you would like. The ATUC-50 gives you everything you need in one feature-rich, supremely reliable system, at a price to meet your budget. And the system is scalable, so you can easily add to it as your needs increase.

System Connection Example

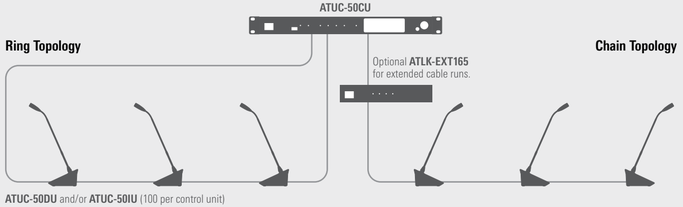
The diagram below shows common system connections. A total of 100 discussion units and interpretation units with accompanying 16.9" or 22.8" ATUC-M gooseneck microphones connect to the control unit, in either chain or ring topology, using Cat5e (or better) cable. A microphone or other external audio source connects to one of two balanced MIC/LINE inputs.

An amplifier and speaker connect to one of four balanced outputs. A USB mass storage device connects to the USB input on the front panel for recording purposes. A network switching hub connects to the control unit's Network terminal via Cat5e cable, supplying wired or wireless connection for computers and other devices.



Reliability and/or Connection Options

As shown in the diagram below, discussion units and interpretation units can be connected to the control unit in either ring or chain topology (up to two rings and up to four chains per control unit). Using ring topology increases the system's reliability, since the control unit actually recognizes each end of the ring as the beginning of a new chain. So, if you experience a connection failure somewhere along the ring, all the discussion units will continue to function, albeit as part of two distinct chains.



Web Remote Control

The ATUC-50's Web Remote Control function is a web application 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 you can choose to configure detailed settings of the system, recall and adjust presets before you start a conference, or operate and control the conference as it is happening.

Some benefits of Web Remote Control:

- Accessible from a web browser on Mac, PC, and iOS and Android tablets, giving you convenient control of system settings and operation
- No need to install additional software
- Administrator and Operator access levels, with optional password protection
- Lets you configure settings for the control unit and each individual discussion unit
- Lets you configure recording settings, and operate (start, stop, pause) recording sessions
- Icons in the application's display header provide easy access to settings and control functions, and alert you to any system problems

Corporate

The ATUC-50's unique Web Remote Control function provides easy cross-platform integration, letting you control meetings from your computer or tablet. Three selectable operation modes and programmable LED indicators help to structure meetings and avoid miscommunications.

Education

The ATUC-50 is a cost-effective solution that is easy for any institution to install and operate. Yet it has the versatility and robustness (with up to 300 channels) to handle the numerous configurations needed in an academic setting.

Hospitality-Hotels/Convention Centers

The ATUC-50 allows you to handle a wide variety of gatherings: link three control units for meetings with up to 300 participants, downscale for smaller events. At any size, the ATUC-50 remains simple to set up and easy for each participant to use.

Portable Conference/Rental

Since the ATUC-50 offers both plug-and-play operation and many advanced features for the experienced user, and is cost-effective when compared to component-based solutions, it is an ideal system to transport from event to event or stock for rental.

# of hearing and being heard.

Government

As a closed, wired system that offers redundancy in its cabling setup, the ATUC-50 can be used with confidence. The system also has the capacity to record discussion sessions and offers two interpretation channels to augment the main feed.

Judicial/Courts

The ATUC-50 is a closed, wired system that lets you record up to four tracks (including audio from two interpretation channels) onto an external USB mass storage device. A 12-band feedback suppressor helps maintain optimal audio quality.

ATUC-50 Digital Discussion System

5 YEAR WARRANTY

ATUC-50CU Control Unit

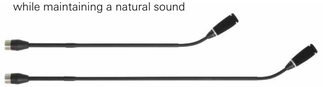
- Powers up to 100 discussion units, integration units, or interpretation units (max of six)
- Cascade capability to handle up to 300 discussion or integration units
- 4 configurable balanced outputs plus Output 1 mirrored to unbalanced output
- 2 Mic/Line In + 2 Aux In + 2 Return In
- 2 Return In channels 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

ATUC-50DU Discussion Unit

- Individually programmable multi-profile versatile unit: Delegate or Chairman
- Unit connector compatible with standard 3-pin XLR microphones
- Low noise 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-colored RGB LED bar on rear of discussion unit and LED on the talk button)
- Clear LED display for volume control and listening channel selection
- 2x RJ45 Port for connecting to the control unit and other discussion units and 1x expansion port for future options
- 1x headphone output

ATUC-50INT Interpretation Unit

- Body is similar in appearance to the ATUC-50DU, but designed for use by interpreters in bi- or trilingual discussion applications
- Enables monitoring of floor or alternate language
- Interpretation can be output to one of up to three different language channels
- Up to six ATUC-50INTs can be included in a chain or ring of ATUC-50DUs (total of 50 units per ATUC-50CU)
- Two ATUC-50INT units may be linked to provide hardware redundancy for a particular language feed



ATUC-M43H / ATUC-M58H Microphones

- Unique 3-pin balanced microphone 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 windscreen)
- RFI-shielding technology offers outstanding rejection of radio frequency interference (RFI)
- Two lengths available (16.9", 22.8")

ATUC-50IU Integration Unit

- Metal body mounts quickly and discreetly on the underside of a table or other surface
- 2x RJ45 ports for connecting to other discussion system components
- 7x Euroblock connectors for audio and control options
- 6x Euroblock connectors for LED power and general-purpose input/output (GPIO)
- Mic input compatible with ATUC-M43H, ATUC-M58H, AT8657/LED, U891RCx and other microphones

ATLK-EXT165 Link Extender

- 2x RJ45 ports for connecting to other discussion system components
- Supplies DC +48V power to connected devices, enabling extended cable runs
- Mode switch for selection of local or remote operation
- LED indicators for power on/off, power supply to linked devices, and link status
- Internal AC power supply

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Hear and be heard.

ATUC-50 Digital Discussion System

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