

# Commercial Audio

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# **Engineered Sound**

## **Contractor-Exclusive Microphones**

Since their introduction, Engineered Sound microphones have been the first choice of leading contractors and system integrators.

This exclusive contractor line includes a modular gooseneck portfolio with various gooseneck lengths, multiple power modules and interchangeable capsules, as well as a wide assortment of boundary, lavalier and network microphones.







# Network Microphones

Operating over a simple Ethernet connection,
Audio-Technica's ATND971a Network Boundary Microphones,
ATND8677a Microphones Desk Stand, ATND931a Gooseneck
and ATND933a Hanging Ceiling-Mount Microphones keep
you connected and in control like never before.



Experience the industry's first wired microphone solutions to transmit audio and control data together over the Dante™ network protocol. The plug-and-play audio works with any Dante™-enabled device, while the integrated control function is compatible with software from a growing list of providers, including Biamp, Bose and Symetrix.

Audio-Technica Network Microphones: get connected, take control.





#### **Network Microphones** | Contractor-Exclusive Engineered Sound









#### ATND971a





A true audio/IT convergence, the ATND971a boundary mic not only delivers the superior audio you would expect from Audio-Technica, with outstanding speech intelligibility and transparent sound quality, but it also transmits control data to communicate across a network of Dante<sup>™</sup>-enabled devices. The integrated programmable user switch allows users to trigger a video camera's pan/tilt, recall lighting presets or control anything else on the network at the push of a button. And with a Red/Green LED the microphone can visually convey mute status, incoming phone calls or other creative visual effects utilizing a control system. The microphone plugs into the network via Ethernet cable — easy to install and operate.

- Plug-and-play compatibility with AES67 networks, including those that utilize Livewire, RAVENNA and Q-LAN AoIP technologies
- Increases Dante<sup>™</sup> Domain Manager features, adding role-based security, cross-subnet routing, SNMP alerts and more
- A digital Ethernet mic with Dante<sup>™</sup> capabilities an Audio-Technica innovation
- Connects directly to network via Ethernet cable no need for expensive audio cable or soldering
- Integrated switch allows mic to communicate with and control other Dante<sup>™</sup>-enabled devices within a network
- . Local or remote control of mic gain, low-cut filter and LED indicator
- Red/Green LED indicator
- · UniGuard RFI-shielding technology; UniSteep filter
- Powered by network PoE
- Scalable across Dantes<sup>™</sup> 512 bidirectional audio channels.

#### Contractor-Exclusive Engineered Sound | Network Microphones

#### ATND8677a

Microphones Desk Stand with Network Output

Equipped with the same Dante<sup>TM</sup> user switch capabilities as the ATND971a boundary mic, the ATND8677a desk stand allows Dante<sup>TM</sup> technology to be used with any phantom-powered condenser gooseneck microphone with a 3-pin XLRM-type output. The sturdy metal base features a 3-pin XLRF-type input and Dante<sup>TM</sup> network output, enabling direct connection to the network via Ethernet cable. The desk stand's capacitive-type user switch with integral red/green LED status indicator permits advanced local and remote control. In Local mode, the switch mutes and unmutes the microphone; in Remote mode, the switch triggers functions on compatible Dante<sup>TM</sup>-enabled devices, such as a video camera's pan/tilt or a room's lighting preset.

- Increases Dante<sup>™</sup> Domain Manager features, adding role-based security, cross-subnet routing, SNMP alerts and more
- Connects directly to network via Ethernet cable no need for expensive audio cable or soldering
- Integrated user switch controls talk/mute in Local mode and triggers
   Dante™-enabled devices in Remote mode
- 3-pin XLRF-type in for quick mounting of gooseneck microphone
- Red/green LED indicator
- Local or remote control of mic gain, low-cut filter, LED indicator and 12V phantom power
- Powered by network PoE
- Scalable across Dantes<sup>™</sup> 512 bidirectional audio channels
- UniSteep filter provides a steep low-frequency attenuation to improve sound pickup without affecting voice quality
- Heavy die-cast case and non-slip silicone foam bottom pads minimize coupling of surface vibration to the microphone.



#### **Network Microphones** | Contractor-Exclusive Engineered Sound



network power module can be painted to match any installation.







#### ATND933a / ATND931a

Condenser Network Microphones

The ATND933a (traditional hanging mic) and ATND931a (small-diameter gooseneck mic) are ideal for boardrooms, school and government settings, teleconferencing, houses of worship and other installed applications. It comes with a wall/ceiling plate power module with Dante<sup>™</sup> network output, UniSteep low-cut filter, gain selector, and red/green LED indicator. Both the ATND933a and ATND931a offer three polar pattern options (Microline, Cardioid, Hypercardioid) and are available in either a black or white finish.

- Plug-and-play compatibility with AES67 networks, including those that utilize Livewire, RAVENNA and Q-LAN AoIP technologies
- Increases Dante<sup>™</sup> Domain Manager features, adding role-based security, cross-subnet routing, SNMP alerts and more
- Connects directly to network via Ethernet cable no need for expensive audio cable or soldering
- TB3M-type for quick mounting of gooseneck or hanging microphones
- Red/green LED indicator
- Remote control of mic gain, low-cut filter, LED indicator and 12V phantom power
- · Powered by network PoE
- Scalable across Dantes<sup>™</sup> 512 bidirectional audio channels
- UniSteep filter provides a steep low-frequency attenuation to improve sound pickup without affecting voice quality.

## ATND933a Hanging Ceiling-Mount Network Microphones



## ES Series Engineered Sound Microphones

The range of Engineered Sound install microphones offers a variety of functions and combinations to meet many different requirements.

The modular ES range consists of 4 different microphone elements, 6 goosenecks of different lengths and 4 interchangeable power modules.

The condenser microphone elements are available as cardioid, hypercardioid, Omni and Microline (line + gradient).

The modular gooseneck sections are available in lengths of 6, 12, 15, 18, 21 and 24 inches and have a double gooseneck design (except 6"). There are 4 different power module options, including the ES8544 inline power module, 2 flush-mount power supply modules (ES8755R 3-pin and ES8755RC 5-pin for remote switching) and the ES8766RC desk stand.

The ES8766RC desk stand, ES8755R and ES8755RC flush-mount have an RGB LED that offers several colour options when switching the microphone on and off. The ES8766RC and ES8755RC can also be controlled remotely.



#### Contractor-Exclusive Engineered Sound | ES Series



#### **Gooseneck Microphones** | Contractor-Exclusive Engineered Sound



The ES905CL is designed for professional recording, television and other demanding sound pickup applications. Its rigid-pipe design with ball-in-socket base permits flexible positioning, while its durable metal base mounts to a table, desk or podium with included hardware. The microphone offers unsurpassed immunity from radio frequency interference thanks to UniGuard innovations. The ES905CL also offers an 80Hz low-cut UniSteep filter that reduces pickup of low-frequency ambient noise. The microphone's low-profile element provides a uniform cardioid polar pattern with a 120° acceptance angle. Power module included.



#### Contractor-Exclusive Engineered Sound | Microphone Sockets







Designed to be recessed into a table, the AT8656/LED Microphone Adapter facilitates the use of any gooseneck microphone or button type surface microphone with a 3-pin XLRM output, such as the ES945 and ES947 microphones in various presentation environments. It has a red / green LED lamp indicating the status of the microphone, and a touch button (switch) to manually switch the microphone from mute to unmute.

The adapter also has a locking switch which automatically locks the microphone in place from insertion to the manual release by the user.



AT8657/LED

Flush-Mount Microphone Socket with LED Ring and Contact Closure

The AT8657/LED microphone socket allows for the easy use of any 21mm diameter gooseneck or button-style boundary microphone with a 3-pin XLRM-type output — including our ES945 and ES947 — in a variety of presentation environments.

The socket's logic out capability permits control of remote devices from a programmable capacitive-type switch, so users can easily trigger an external device (e.g., a camera or light) with the touch of a button — an extremely useful feature in conference and boardroom installations.

#### **Boundary Microphones** | Contractor-Exclusive Engineered Sound



#### **ES945** Omnidirectional Condenser Boundary Microphones

This low-profile omnidirectional condenser boundary microphone ES945 is designed for clear, highly intelligible sound reinforcement, professional recording and teleconferencing in table-, ceiling-, or panel-mount applications. The microphone is equipped with a self-contained power module with an XLRM-type output connector, eliminating the need for an external power module. The microphone offers unsurpassed immunity from radio frequency interference

thanks to Audio-Technica's UniGuard innovations. Protected by a rugged all-metal case with a two-layer steel mesh grille, the microphone has a 360° pickup angle.

#### Contractor-Exclusive Engineered Sound | **Boundary Microphones**

2	3		
Choose Polar Pattern	Choose Color  Black	White	Silver
Cardioid	ES947	ES947W	-
Omnidirectional	ES945	ES945W	-
Cardioid	ES947/LED	ES947W/LED	ES947SV/LED
Omnidirectional	ES945/LED	-	_

#### **ES947** Cardioid Condenser Boundary Microphones

This low-profile cardioid condenser boundary microphone is recommended for unobtrusive table-, ceiling-, or panel-mount applications in high-quality sound reinforcement, professional recording and teleconferencing. Designed for permanent installation, the microphone is equipped with a self-contained power module with an XLRM-type output connector, eliminating the need for an external power module. Protected by a rugged all-metal case with a

two-layer steel mesh grille, the microphone has a cardioid pattern for enhanced gain before feedback and improved signal-to-noise ratio.

#### Hanging Microphones | Contractor-Exclusive Engineered Sound



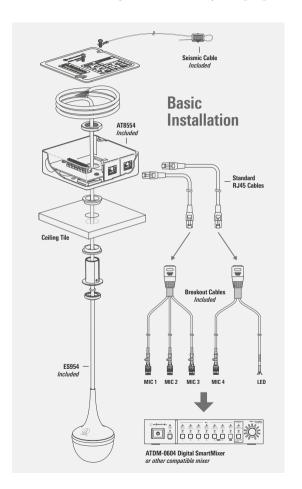
ES954 Hanging Microphone Array

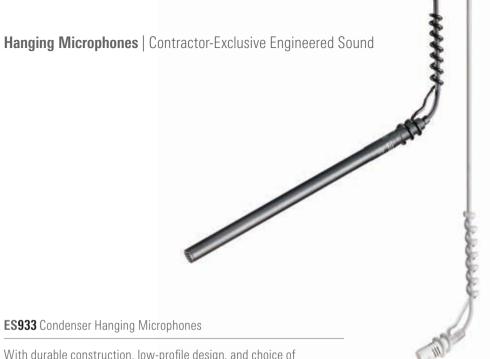
The ES954 hanging microphone array is an ideal, cost-effective solution for huddle rooms, conference rooms and other meeting spaces. When controlled by the Audio-Technica ATDM-0604 Digital SMARTMIXER™, the four-capsule microphone array provides 360-degree coverage through virtual hypercardioid or cardioid outputs which can be steered horizontally and tilted vertically.

Intended primarily for video conferencing applications, the ES954 may be used singly or in multiples to capture every person speaking in a room, with the total number of channels restricted only by the capacity of the mixer or DSP device controlling the system. When using the ATDM-0604 Digital SMARTMIXER™ the intuitive graphic interface enables control of the width and orientation of each virtual polar pattern, which may be steered in 30-degree increments, with a tilt function accommodating differing ceiling heights or users that are sitting/standing.

#### Contractor-Exclusive Engineered Sound | Hanging Microphones

- Quad-capsule steerable microphone array designed for use with the ATDM-0604 Digital SMARTMIXER™ and other compatible mixers
- When controlled by the ATDM-0604, provides 360° coverage from a potentially limitless number (bound by mixer channel count) of virtual hypercardioid or cardioid outputs that can be steered in 30° increments to clearly capture every person speaking in a room
- Mixer-controlled tilt function provides a vertical steering option to accommodate ceilings of different heights or users that are sitting/ standing
- Includes plenum-rated AT8554 ceiling mount with RJ45 connectors and push-type wire terminals for simple, secure installation
- Integral, logic-controlled 360-degree red/green LED ring provides clear indication of mute status
- High-output design with low self-noise delivers strong, naturalsounding vocal reproduction
- Low-reflective white finish matches ceiling tiles in most environments
- Includes two 46cm (18") breakout cables: RJ45 (female) to three 3-pin Phoenix (female); RJ45 (female) to 3-pin Phoenix (female) and unterminated LED conductors
- Permanently attached 1.2m (4') cable with locking grommet enables easy microphone height adjustment
- Included seismic cable secures the AT8554 ceiling mount to a drop ceiling grid
- UniGuard™ RFI-shielding technology offers outstanding rejection of radio frequency interference (RFI)
- Requires 11V to 52V DC phantom power.





#### **Power Module**

Inline Power Module



With durable construction, low-profile design, and choice of element and power module configurations, these Engineered Sound hanging microphones offer versatile solutions for a host of installed applications — from theatres and television studios to boardrooms and schools, and beyond. All microphones feature UniGuard RFI-shielding technology for outstanding rejection of radio frequency interference (RFI) and provide superior off-axis rejection for maximum gain before feedback. Multiple configurations available.

Choose	Choose Polar Pattern	Choose Color		
Microphones Style	(Elements are Interchangeable)	Black	White	
Hanging	Q Microline (Line + Gradient)	ES933ML	ES933WML	
← 15.24m →	○ Cardioid	ES933C	ES933WC	
( 10.21111 /	G Hypercardioid	ES933H	ES933WH	
	O Omnidirectional	ES9330	ES933W0	

#### Interchangeable elements

Elements are interchangeable and available with omnidirectional (360°), cardioid (120°), hypercardioid (100°) and Microline (90°) pickup patterns.

#### Compatible with Audio-Technica power module

The microphone's free end connects to a compatible Audio-Technica power module (not included) via a special TA3F-type connector designed to optimise RFI immunity.



## Uniform cardioid polar pattern with 120° acceptance angle

Designed for quality sound reinforcement.



Two-stage foam windscreen
Internal frame provides

easy installation.



#### UniGuard shield

UniGuard shielding technology against radio frequency interference (RFI).



#### Easy to adjust

Small-diameter gooseneck can be positioned quickly into desired shape.



#### UniPoint | Gooseneck Microphones



Ideal for conference centers, boardrooms, courtrooms, houses of worship, and other installed applications, the U857Q is designed to plug directly into a panel- or desk-mounted XLRF-type connector. These quick-mount condenser gooseneck microphones offer unsurpassed immunity from radio frequency interference thanks to Audio-Technica's UniGuard innovations. The microphone features an ultra-flexible small-diameter gooseneck and accepts interchangeable elements (cardioid, hypercardioid, omnidirectional and UniLine polar patterns). Equipped with self-contained electronics, the phantom-powered microphone also offers an 80Hz low-cut UniSteep filter that reduces pickup of low-frequency ambient noise.



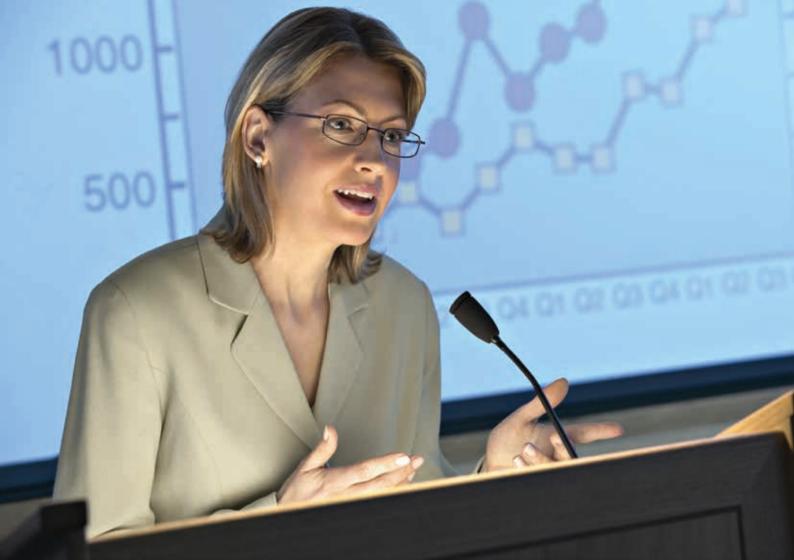
#### Broadcast & Production | Console Microphones



Designed to plug directly into a panel- or desk-mounted XLRF-type connector, the U8590L features an ultra-flexible small-diameter gooseneck and accepts interchangeable elements, available in cardioid, hypercardioid, omnidirectional and UniLine polar patterns. Equipped with self-contained electronics, the phantom-powered microphone also offers an 80Hz low-cut UniSteep filter that reduces pickup of low-frequency ambient noise. The microphone is is 480.0mm long.



Designed for use as a quality talk-back microphone in entertainment, commercial and industrial applications, the AT808G features a versatile gooseneck design that allows for unlimited positioning and dependable performance. Its custom-tailored frequency response ensures excellent intelligibility in environments with excessive ambient noise. The mic's subcardioid polar pattern reduces pickup of sounds from the sides and rear, improving isolation of desired sound source. The microphone is 412.7mm long.



#### **Boundary Microphones** | UniPoint

#### **UniPoint Boundary Microphones**

UniPoint boundary microphones offer exceptional audio reproduction in a super-compact, low-profile design. Intended for surface-mount applications such as high-quality sound reinforcement, professional recording, television, conferencing and other demanding sound pickup situations, the UniPoint line of boundary mics includes a variety of models with features to meet every need. Each model is equipped with UniGuard RFI-shielding technology and an 80Hz low-cut UniSteep filter.



### PivotPoint Rotating Output Connector (U851b and U891b models)



#### **Power Module**



#### UniPoint | Boundary Microphones

	Choose Switch or No Switch	Choose Polar P		Choose Color  Black	White
	No Switch	00	Triple-Element Multidirectional (3 Cardioid Elements)	U843R	
	No Switch	0	Omnidirectional	U841R	
	No Switch	0	Cardioid	U851Rb	U851RWb
		0	Omnidirectional	U851Rb0	
	3-mode Switch	$\Box$	Cardioid	U891Rb	U891RWb
	Local or Remote Switch	$\Box$	Cardioid	U891RCb	

#### Hanging Microphones | UniPoint



#### **Power Module**

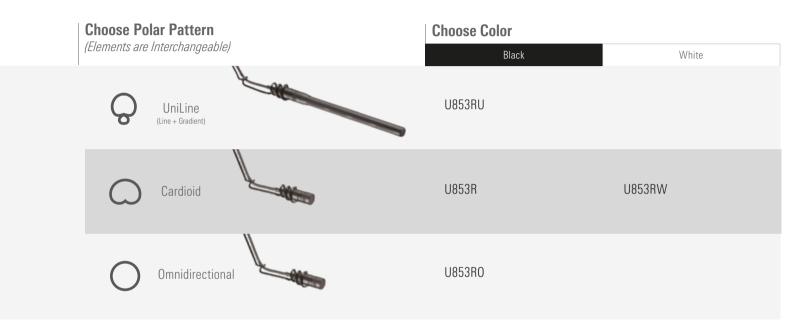
**Inline Power Module** 



#### **UniPoint Hanging Microphones**

Designed for suspension over choirs, instrumental groups and theatre stages, these UniPoint hanging microphones feature UniGuard RFI-shielding technology and an 80Hz low-cut UniSteep filter, and provide superior off-axis rejection for maximum gain before feedback. Interchangeable elements (available separately) permit an angle of acceptance from 90° to 360°.

#### UniPoint | Hanging Microphones





# ProPoint Installed Sound Microphones

Gooseneck, Boundary and Hanging Microphones





Cardioid Condenser Thread-Mount Gooseneck Microphones



) d PRO490 / PRO490L Cardioid Condenser Quick-Mount Gooseneck Microphones

PR04901



PR0490

These double-gooseneck cardioid condenser microphones with integral power module and %"-27 adapter-mount is ideal for all installed applications. It is equipped with a wide-range condenser element, low-mass diaphragm, and self-contained electronics

Offered in two lengths: PRO47T - 315.0mm; PRO47TL - 401.0mm.

The PRO49Q quick-mount double-gooseneck cardioid condenser microphone is designed to plug into any standard XLRF-type surface or cable connector. It is equipped with a wide-range condenser element, low-mass

diaphragm, and self-contained electronics.

Offered in two lengths: PR049Q - 332.0mm; PR047TL - 418.0mm.

#### **ProPoint | Installed Sound Microphones**



**PRO42**Miniature Cardioid Condenser
Boundary Microphones

Designed for sound reinforcement, broadcasting and recording applications, the PRO42 brings crisp, intelligible audio reproduction to the podium, stage, conference table and beyond. It is equipped with a wide-range condenser element, low-mass diaphragm, and self-contained electronics eliminating the need for external power modules.



**PRO44**Cardioid Condenser
Boundary Microphones

cardioid

With its half-space cardioid polar pattern, low-profile design, and outstanding sound quality, the PRO44 is ideal for conference tables, podiums, lecterns and other installed-sound uses. It is equipped with a wide-range condenser element, low-mass diaphragm, and self-contained electronics.



**PRO45 / PRO45W**Cardioid Condenser
Hanging Microphones

cardioid



cardioid

With robust construction and unobtrusive appearance, the PRO45 and PRO45W offer versatile sound-reinforcement solutions for speech, theatre, orchestra and choir sound reinforcement and recording. The mic's high-SPL handling is perfect for suspension over choirs and orchestras. Available in black (PRO45) and white (PRO45W).



#### Miniature Microphones







MicroSet Subminiature Cardioid Condenser Headworn Microphones

Also terminated for Audio-Technica and other manufacturers' wireless systems.

 Features a rotating capsule housing with talk-side indicator for use on either ear and perfect polar pattern placement

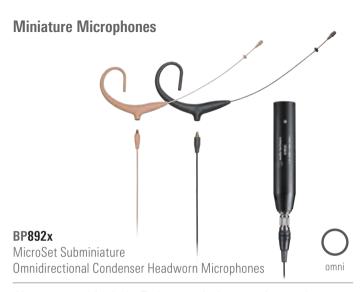
cardioid

 Provides superior intelligibility and clean, accurate reproduction for the most demanding house of worship user, lecturer, broadcaster or theatre performer.

frequency response: 20–20,000Hz included accessories: BP894x: AT8545 power module (wired only); AT8464x dual-ear adapter kit; AT8440 cable clip; AT8163 windscreen; AT8171 windscreen; moisture guard; belt clip (wired only); carrying case. BP894x-TH: AT8545 power module (wired only); AT8464x-TH dual-ear adapter kit; AT8440 cable clip; AT8163-TH windscreen; AT8171-TH windscreen; moisture guard; belt clip (wired only); carrying case.



Innovative rotating capsule housing



Also terminated for Audio-Technica and other manufacturers' wireless systems.

- Handles high sound pressure levels with ease
- Extremely intelligible natural audio
- Inconspicuous, lightweight headset with capsule diameter of just 2.6mm is ideal for applications requiring minimum visibility.

frequency response: 20-20,000Hz

included accessories: BP892x: AT8545 power module (wired only); AT8464x dual-ear adapter kit; AT8440 cable clip; AT8157 windscreen; AT8171 windscreen; two AT8156 element covers; moisture guard; belt clip (wired only); carrying case.

BP892x-TH: AT8545 power module (wired only); AT8464x-TH dual-ear adapter kit; AT8440 cable clip; AT8157-TH windscreen;

AT8171-TH windscreen; two AT8156-TH element covers; moisture guard; belt clip (wired only); carrying case.



Also terminated for Audio-Technica and other manufacturers' wireless systems.

- . Outstanding clarity and intelligibility
- Lightweight, ergonomic design
- Extremely unobtrusive, 1-inch flexible boom
- Secure over-the-ear placement
- Extended frequency response for natural vocal reproduction.

frequency response: 20-20,000Hz

included accessories: BP893x: AT8545 power module (wired only); AT8464x dual-ear adapter kit; AT8440 cable clip; AT8157 windscreen; AT8171 windscreen; two AT8156 element covers; moisture guard;

belt clip (wired only); carrying case.

BP893x-TH: AT8545 power module (wired only); AT8464x dual-ear adapter kit; AT8440 cable clip; AT8157-TH windscreen; AT8171-TH windscreen; two AT8156-TH element covers; moisture guard; belt clip (wired only); carrying case.

#### **Miniature Microphones**





Subminiature Omnidirectional Condenser Lavalier Microphones

Also terminated for Audio-Technica wireless systems.

- Maximum intelligibility and clean, accurate reproduction for vocalists, lecturers, stage and television talent, and houses of worship
- Low-profile design (5mm in diameter) is ideal for applications requiring minimum visibility
- Also available in beige.

frequency response: 20-20,000Hz

included accessories: AT8537 power module; AT8439 cable clip; clothing clip base; viper clip base; magnet clip base and plate with lanyard; three single mic holders: two double mic holders: two element covers: two windscreens; battery; protective carrying case.



**AT898** 

Subminiature Cardioid Condenser Lavalier Microphones

Also terminated for Audio-Technica wireless systems.

- Maximum intelligibility and clean, accurate reproduction for lecturers, stage and television talent, and houses of worship
- Low-profile design (5mm in diameter) is ideal for applications requiring minimum visibility
- Operates on battery or phantom power.

frequency response: 200-15,000Hz

included accessories: AT8537 power module; AT8439 cable clip; clothing clip base; viper clip base; magnet clip base and plate with lanyard; three single mic holders; two double mic holders; two windscreens; battery; protective carrying case.

#### **Miniature Microphones**



**AT803** Omnidirectional Condenser Lavalier Microphones

Also terminated for Audio-Technica wireless systems.

- High intelligibility for lecturers and stage/TV performers
- Provides excellent yet unobtrusive sound pickup
- UniSteep filter provides a steep low-frequency attenuation to improve sound pickup without affecting voice quality
- Operates on battery or phantom power.

frequency response: 30-20,000Hz

included accessories: AT8531 power module; AT8419 clothing clip; AT8116 windscreen; battery; protective carrying case.



AT831R

Cardioid Condenser Lavalier Microphones

cardioid

cardio

Also terminated for Audio-Technica wireless systems.

- Clip-on lavalier mic also excels in acoustic guitar applications
- · Provides crisp, full-sounding voice and instrument pickup
- Excellent gain before feedback and suppression of background noise
- · Operates on phantom power only.

frequency response: 40-16,000Hz

included accessories: Clothing clip; AT8444 guitar adapter; AT8538 remote power module; AT8116 windscreen; protective carrying case.

# **Miniature Microphones**



MT830R

Omnidirectional Condenser Lavalier Microphones

Also terminated for Audio-Technica wireless systems.

- Small size provides excellent yet unobtrusive sound pickup
- High intelligibility for lecturers, stage/TV performers and singers
- Wide-range capability ensures clean, accurate reproduction.

frequency response: 30-20,000Hz

included accessories: AT8538 power module; clothing clip; windscreens.



AT829cH

Cardioid Condenser Lavalier Microphones



cardinio

Also terminated for other Audio-Technica wireless systems.

- Ideal for professional business presentations, public speaking, theater
- Clip-on lavalier mic provides crisp, full-sounding voice pickup
- Excellent gain before feedback and suppression of background noise
- Rugged 4-pin cH-style screw-down connector.

included accessories: AT8131 foam windscreen; AT8434 clothing clip.

# **SmartMixer**

# **Automatic Mixers**

Audio-Technica SmartMixers are ideal for meetings, seminars, teleconferencing, worship services, courtroom proceedings, radio and TV broadcasting, and A/V applications. They are designed to provide seamless operation of multiple microphones, maintaining



consistent, high-quality audio that's free of feedback, excessive ambient noise, and comb filtering. Each SmartMixer offers an intuitive front-panel design for convenient local control of the system. The ATDM-0604 includes the additional benefit of a Web Remote interface, giving you the option of monitoring and controlling the system on a PC, Mac, iOS or Android device. This latest model in the SmartMixer line is also equipped with a 2-channel USB audio interface for soft codec (Skype, WebEx) integration or playback from a computer.

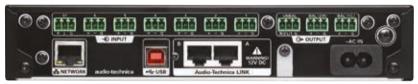
# SmartMixer | Automatic Mixers



## **Automatic Mixers** | SmartMixer



(front)



(back)

## ATDM-0604

Digital Six-channel Automatic SmartMixers

The ATDM-0604 Digital SmartMixer is a six-channel automatic mixer that is ideal for meetings, conferences, courtroom proceedings, radio and TV broadcasts. The SmartMixer technology allows channels to be mixed automatically in gate or gain sharing mode, ensuring consistent, high-quality audio output from all inputs in a setup, without the introduction of feedback, excessive ambient noise, or comb filtering. Monitoring and control tools — for phantom power, low-cut filter, automatic mixing, acoustic echo canceller (AEC) and more — are accessible on the mixer's front panel or on PC, Mac, iOS or Android device via the mixer's Web Remote interface. Up to six ATDM-0604 mixers can be linked using Cat5e cable.

- 4 balanced mic inputs, 2 balanced Mic/Line inputs and 1 stereo unbalanced input
- 1 stereo and 2 mono outputs
- 2-channel USB audio interface for soft codec (Skype, WebEx) integration or playback from computer
- Full digital processing on inputs and outputs
- 8 x 3 audio routing matrix
- 6-channel Smart Mix (gate or gain sharing)
- Onboard acoustic echo canceller (AEC) processing
- Front panel direct operation and Web Remote functionality
- IP control for third-party CCS administration
- Up to 6 mixers can be linked using Cat5e cable.





## 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 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 runs. Three control units can be linked, creating a system that supports up to 300 discussion units. 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.

#### **Web Remote Control**

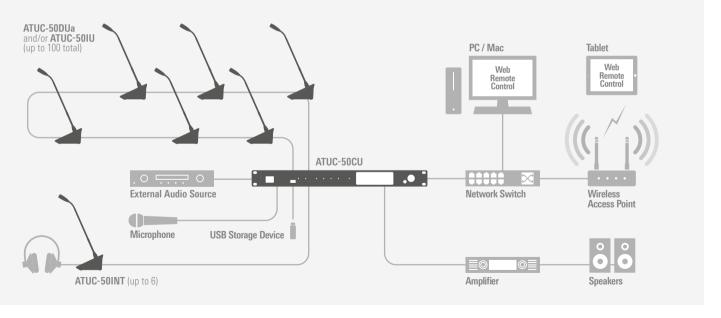
The ATUC-50's Web Remote Control function is a web application that allows you to configure and operate the system from a computer or mobile device using a standard web browser and without needing to load software. From the application's home screen you can choose

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.

## **System Connection Example**

The diagram below shows common system connections. A total of 50 discussion units and interpretation units with accompanying 430.0mm or 580.0mm 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.

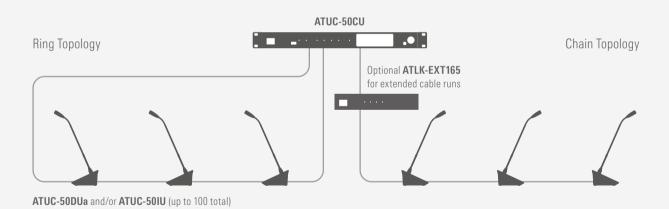
An amplifier and speaker connect to one of four balanced outputs. A USB mass storage device connects to the USB input on the front panel for recording purposes. A network switching hub connects to the control unit's Network terminal via Cat5e cable, supplying wired or wireless connection for computers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



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#### ATUC-50CU Control Unit

- Powers up to 100 discussion units and interpretation units
- Cascade capability to handle up to 300 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.



#### ATUC-50DUa 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 discreet transistors, with individual (per discussion unit) adjustable gain control
- High-quality speaker for enhanced speech intelligibility
- 24-bit/48kHz audio quality
- Multiple independent indicator (multi-colored RGB LED bar on rear of discussion unit and LED on the talk button).



### **ATUC-50INT** Interpretation Unit

- Similar in appearance to ATUC-50DUa, 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-50DUa's (total of 100 units per ATUC-50CU)
- Two ATUC-50INT units may be linked to provide hardware redundancy for a particular language feed.



## ATUC-Mics Gooseneck Microphones with LED-Ring

- 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)
- Three lengths available 320mm, 430mm and 580mm.



#### **ATUC-50IU** Integration Unit

- Metal body mounts quickly and discreetly on the underside of a table or other surface
- 2 RJ45 ports for connecting to other discussion system components
- 7 Euroblock connectors for audio and control options

- 6 Euroblock connectors for LED power and general-purpose input/output (GPIO)
- Mic input compatible with ATUC-M32L, ATUC-M43H,ATUC-M58H, AT8657/LED, U891RCb and other microphones.



#### ATLK-EXT165 Link Extender

- 2 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.

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

# **ATUC-IR**

# **Hybrid Infrared Conference System**

ATUC-IR combines wired ATUC-50 components with wireless infrared components thanks to hybrid functionality.

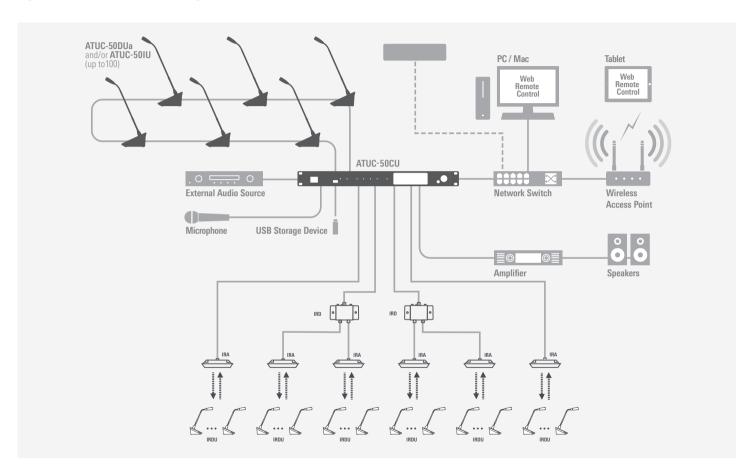


Based on the hybrid technology of the central unit, the ATUC-IR gives the benefits of infrared transmission while it takes advantage of all the components of the wired range ATUC-50. Thus with a single ATUC-IRCU central unit (or ATUC-IRCUDAN) you can control up to 300 discussion units (200 wireless IR ATUC-IRDU and 100 wired ATUC-50DUa) by combining ATLK-EXT165 extension units if it's necessary.

Moreover, you only need to connect 2 wired central units ATUC-50CU to your central ATUC-IRCU (DAN) for a system managing up to 500 discussion units. Which gives a total capacity of 700 independent contacts, because the wireless discussion unit ATUC-IRDU with its two "helmet-button" interface can be used by 2 different people, distinctly identified in your system.

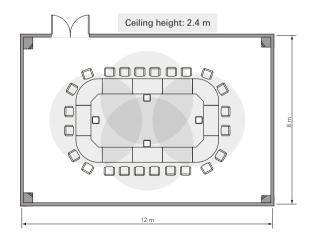
In addition to its functionalities dedicated to ATUC-IR, the new system obviously takes up the whole of the wired system ATUC-50, including recording, simultaneous interpretation, and the full IP interface.

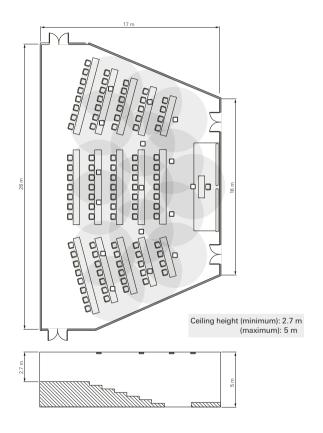
- Supports the operation of Audio-Technica wired (ATUC-50) and infrared (ATUC-IR) conferencing products
- Powers up to 16x ATUC-IRA infrared transceiver units and 100 x wired discussion units
- Only one ATUC-IRCU needed to control up to 300x discussion units (200x ATUC-IRDU and 100x ATUC-50DUa/ATUC-50IU)
- Cascade capability to handle up to 500x discussion units (200x ATUC-IRDU & 300x ATUC-50DUa/ATUC-50IU)
- Conference mode: free talk, request to talk and full remote
- Built-in feedback suppressor and processing for optimal audio quality and intelligibility
- Fully digital system with future-proof upgrade capability
- Built-in 4 channels recording for up to 65,000 hrs on USB
- 4 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
- Also available as Dante<sup>™</sup> equipped version (ATUC-IRCUDAN).



## **ATUC-IRA Installation Examples**

Up to 16 ATUC-IRA transmission units can be connected to the central unit. Each covers an area up to  $40 \, \text{m}^2$ . This therefore makes it very easy to adapt to your different environments and room configurations.







#### **ATUC-IRCU** Hybrid Control Unit

- Supports the operation of wired and infrared conferencing products
- Only one ATUC-IRCU needed to control up to 300 discussion units
- Control up to 500 discussion units in a cascaded system

- Built-in feedback processor
- Controllable via Web Remote or an external control unit
- Also available as Dante<sup>™</sup> equipped version (ATUC-IRCUDAN).



**ATUC-IRCUDAN** Hybrid Control Unit (Dante<sup>™</sup>-Enabled)



#### **ATUC-IRDU** IR Discussion Unit

- Infrared discussion unit with high-quality audio
- Individual automated gain control (AGC), mic gain and mic EQ
- Compatibility with standard XLR3 pin gooseneck
- Equipped with two multifunction buttons

- Clear LED display for volume control and channel selection
- Use of two batteries for over 13 hours of operation.



#### **ATUC-IRA** IR Transceiver Unit

- . Modern access point design
- Subtile white
- Connects via a  $75\Omega$  BNC coaxial cable to the central control unit

- LED power indicator
- Wall mounting bracket included.



### **ATUC-IRD** IR Distribution Unit

- Antenna distributor designed for the ATUC-IR infrared conferencing system
- 1 BNC entry point
- 2 BNC exit points

- Up to 16 antenna transmitter / receiver connections
- Extends the infrared transmission area.



## ATCS-B60 Li240 Battery Charger

- Smart fast charger
- 10 slots designed to take LI-240 Lithium-ion batteries
- Batteries fully charged in an optimised time
- LEDs indicate the status of the charging process
- Each compartment can show individual charging progress.



## Li-240a Lithium-Ion Battery

- 6.5 hours capability
- Up to 2 per discussion unit (ATUC-IRDU).

# The ATUC-IR system can be combined with the elements of the ATUC-50 Series:

ATUC-50CU Hybrid Control Unit
ATUC-50DUa Discussion Unit
ATUC-50INT Interpretation Unit
ATUC-50IU Integration Unit
ATLK-EXT165 Link Extender

ATUC-Mics ATUC-M32L, ATUC-M43H, ATUC-M58H ATUC-HP2 Dual Sided Headphone for ATUC Systems.

## **ATUC Accessories**



#### ATUC-VU

Voting Unit

- Compatible with ATUC-50DUa
- Can be used for voting or as extension panel
- Equipped with NFC card reader functions



#### ATUC-HP2

Dual Sided Headphone

- Lightweight and robust headphone for conference applications
- Clear sound quality with good wearing comfort
- 3.5 mm gold plated mini stereo plug



#### IU50-FM01

Flush-Mount Panel for ATUC-501U

- Standard XLR connector
- Backlit capacitive sensitive talk button



#### ATUC-DUWT

Weight Plate

- Weight plate compatible with ATUC-50DUa and ATUC-50INT
- Optional bottom weight (330g)
- for secure Placement
- Supplied with fixing screws



#### IU50-FM02

Flush-Mount Panel for ATUC-50111

- Standard XI R connector
- Backlit capacitive sensitive talk button
- Capacitive sensitive mute button



#### ATUC-SPK

ATUC-50 Speaker

- ATUC-50DUa speaker only
- To use for installations with ATUC-50IU





## ATUC-Rackpanel

Breakout Box for ATUC-50CU

- Brings all connections to the front
- For easier access to the connections in a permanently installed system

# **Microphone Desk Stands**



#### AT8601

Microphone Desk Stand

- Compatible with %"-27 threaded stand clamps
- For use with any microphone using a stand clamp.



#### AT8699

Microphone Desk Stand

- Heavy die-cast construction and non-slip bottom pads minimize coupling of surface vibration to the unit
- Low-profile design with low-reflectance black finish for minimum visibility
- Reversible XLR-type connector on the top and the rear of the product.



#### AT8615

Microphone Desk Stand

- Quick-mount plug-in cast-metal desk stand
- XLRF-type in, XLRM-type out connectors
- For use with any gooseneck microphone with XLRM-type output.



#### AT8699R

Microphone Desk Stand with Switch

- Heavy die-cast construction and non-slip bottom pads minimize coupling of surface vibration to the unit
- Low-profile design with low-reflectance black finish for minimum visibility
- Reversible XLR-type connector on the top and the rear of the product
- Ultra-quiet electronic switch can be set to any of three operating modes: "touch-on/touch-off," "touch-to-talk" and "touch-to-mute" (AT8699R)
- Gooseneck LED control over 3-pin XLR w/ ATUC microphones.



## AT8615RS

Microphone Desk Stand

- On/off mute switch for phantom-powered microphones
- Quick-mount plug-in cast-metal desk stand
- XLRF-type in, XLRM-type out connectors
- For use with any phantom-powered gooseneck microphone with XLRM-type output.

# **Microphone Mounts**



#### AT8646AM

Microphone Shock-Mount Plate

- Intended for use with microphones mounted on lecterns, pulpits, conference tables and other surfaces
- Suspended rubber panel isolates microphone from the mounting surface
- Provides effective reduction of mechanical noise and vibration
- 5/8"-27 threaded mount.

Designed for A-T Case Styles: M2, M22.



#### AT8647QM/S

Microphone Shock-Mount Plate with Switch

- Intended for use with microphones mounted on lecterns, pulpits, conference tables and other surfaces
- Suspended rubber panel isolates microphone from the mounting surface
- Provides effective reduction of mechanical noise and vibration
- Lighted mute switch (requires 24-48V phantom power)
- XLRF-type connector mount.

Designed for A-T Case Styles: M23, M26, M27.



#### AT8646QM

Microphone Shock-Mount Plate

- Intended for use with microphones mounted on lecterns, pulpits, conference tables and other surfaces
- Suspended rubber panel isolates microphone from the mounting surface
- Provides effective reduction of mechanical noise and vibration
- XLRF-type connector mount.

Designed for A-T Case Styles: M23, M26, M27.



#### AT8416

Microphone Shock Mount

- Intended for use with gooseneck microphones mounted on lecterns, pulpits, conference tables and similar surfaces
- Effectively isolates microphone from noise, shock and vibration transmitted through the mounting surface
- Eliminates pickup of low-frequency resonances caused by mechanical coupling
- Compatible with Audio-Technica "adapter-mount" and "quick-mount" gooseneck microphones.

Designed for A-T Case Styles: M2, M22.

# **Microphone Mounts**



#### AT8438

Microphone Desk-stand Adapter Mount
Custom mount allows using miniature hanging and
lavalier microphones in surface-mount applications.
Fits 5%"-27 threaded stands.
Designed for A-T Case Styles: M12, M32.



#### AT8474

Universal Isolation Mount
Low-profile isolation mount (can be installed above or beneath mounting surface).

Designed for A-T Case Styles: M26, M27, M34, M35.



### AT8451 / AT8451(WH)

Microphones Hanger Adapter
Wire hanger adapter for overhead applications (black/white).
Designed for A-T Case Styles: M12. M21. M32.



#### AT8662

Microphone Shock Mount

- Intended for use with gooseneck microphones mounted on lecterns, pulpits, conference tables and similar surfaces
- Effectively isolates microphone from noise, shock and vibration transmitted through the mounting surface.
- Eliminates pickup of low-frequency resonances caused by mechanical coupling.

Designed for A-T Case Styles: M34, M35.



# AT8452 / AT8452(WH)

Dual-ear Microphone Mount

Designed for A-T Case Style: M31.

stability and comfort.

Microphones Hanging Adapter
Wire hanger adapter for overhead applications (black/white).
Designed for A-T Case Styles: M14, M25.

Allows you to convert your single ear-worn BP892x

MicroSet to a dual-ear-worn unit for maximum



#### AT8663

A-Mount Flange
Designed for A-T Case Styles: M2, M33.



## AT8464x-TH

AT8464x

Dual-ear Microphone Mount
Allows you to convert your single ear-worn
BP892x-TH MicroSet to a dual-ear-worn unit for
maximum stability and comfort.
Designed for A-T Case Style: M31.



#### AT8664

A-Mount Cable Pass-Through Adapter
Designed for A-T Case Styles: M2, M34.

## **Electronics**



#### AT8537

Power Module

In-line 1.5V AA battery & phantom power module, TA3M to XLRM line 3-pin.

Included with AT898, AT899.



#### AT8545

Power Module

Phantom power only in-line power module. Suitable for use with any Audio-Technica Wireless Essentials microphone terminated with 4-pin screw-down connector.

The AT8545 allows you to convert your wireless microphone into a wired model.

Included with BP892x MicroSet, BP893x MicroEarset and BP894x MicroSet



#### AT8538

Power Module

Phantom power only in-line power module, with bass roll-off, input on TA3M, output on integral XLRM 3-pin.

 Included with AT831R, ES905CL, ES933C/H/ML, MT830R, PR035, U853R, U853RU.



#### AT8681

UniMix 2-to-1 Microphones Combiner with Balance Control

Combines the output from two microphones into one channel. The balance control attenuates each microphone by 6 dB (typical) at midpoint.



#### AT8539

Power Module

Phantom power only in-line power module. Suitable for use with any Audio-Technica Wireless Essentials microphone terminated with 4-pin locking connector. The AT8539 allows you to convert your wireless microphone into a wired model.

## Mounts







- Rack Mount Kit
- Rack mount kit compatible with ATDM-0604 and ATLK-EXT165
- For mounting ATDM-0604 or ATLK-EXT165 in a 19" rack
- Supplied with six fixing screws.



#### AT8649

Table Mount Kit

- Table mount kit compatible with ATDM-0604 and ATLK-EXT165
- For mounting ATDM-0604 or ATLK-EXT165 under a table
- Supplied with four fixing screws.

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