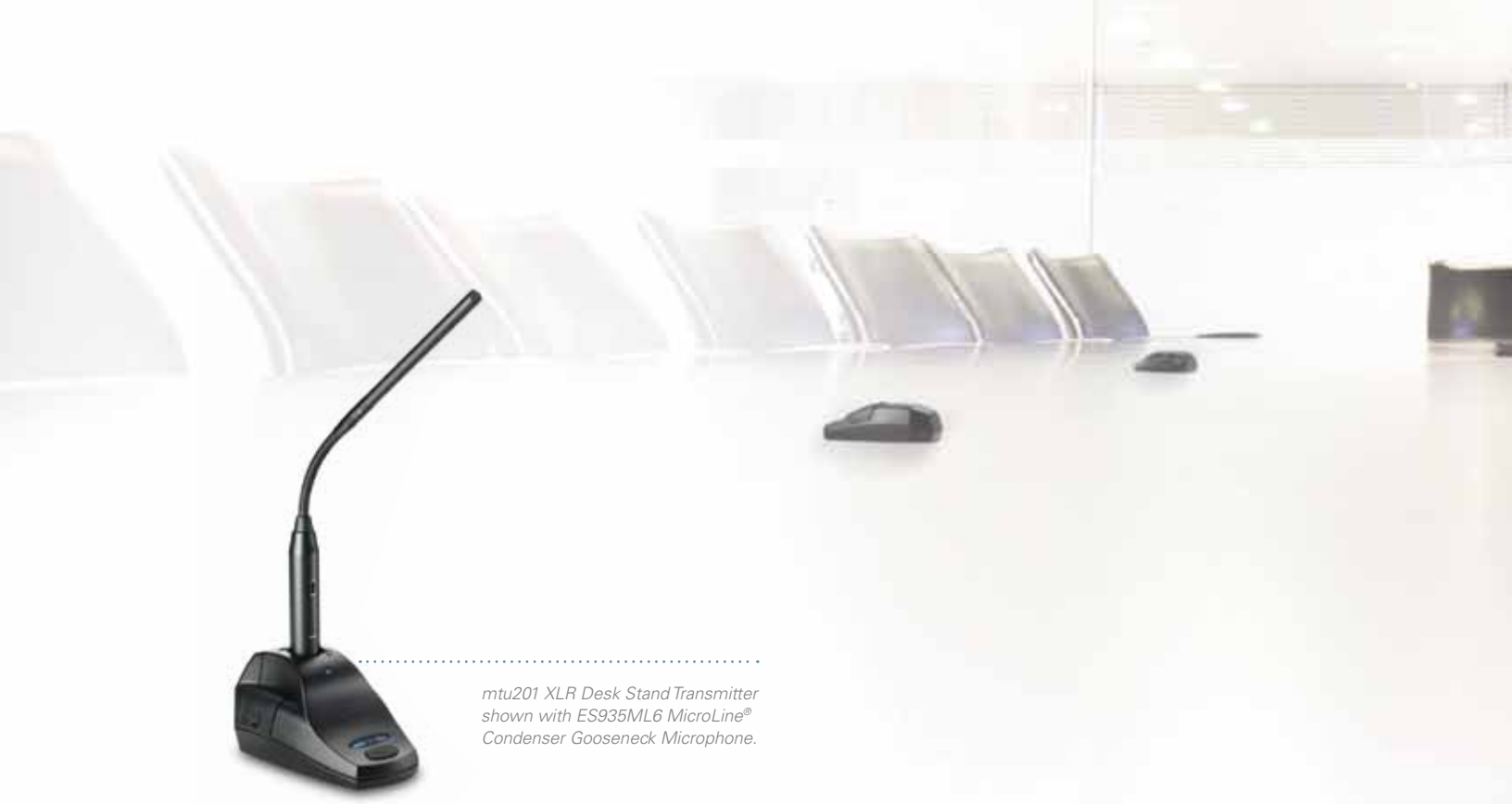
Experience SpectraPulse®

PURE DIGITAL AUDIO

Free & clear space in an increasingly crowded spectrum.
Secure ultra wideband digital communication.
Simple setup and operation.

audio-technica
always listening



mtu201 XLR Desk Stand Transmitter shown with ES935ML6 MicroLine® Condenser Gooseneck Microphone.

Audio-Technica's **pure digital SpectraPulse® wireless microphone system** delivers license-free plug-and-play simplicity, rock-solid performance, and impenetrable security. Operating in the sparsely populated 6–10 GHz range, SpectraPulse systems are completely out of the range of TV signals and white space devices. With no companding or compression circuits to diminish signal quality, and no need for frequency coordination, SpectraPulse offers extremely straightforward setup/operation along with all-digital clarity, versatility, and security. SpectraPulse pure digital wireless. There's nothing like it in the world.




Why SpectraPulse?

Digital
SpectraPulse® pure digital technology delivers remarkable sound and connectivity for years to come

Professional
Compander-free, compression-free professional-quality audio, with less than 3mS latency

Secure
Inherent signal security with optional 128-bit encryption

Clear
6 GHz operation, no interference from TV signals, cell phones, wireless networks, or white space devices

Clear Performance Quality

Audio-Technica's all-digital wireless innovation, the award-winning SpectraPulse® UWB Wireless Microphone System bypasses the increasingly congested RF bottleneck to deliver clear, intelligible audio without the performance and set-up issues associated with conventional wireless systems.

Operating well above the "white spaces" bandwidth in the license-free, sparsely populated 6–10 GHz range, SpectraPulse systems are completely out of the range of TV signals. With no companding circuits to diminish signal quality, this digital wireless innovation delivers crisp, highly intelligible and articulate sound quality via a linear compression-free design.

Designed for conferences, courtrooms, corporate events and more, SpectraPulse offers 14 simultaneous channels that operate flawlessly without RF turf wars, frequency coordination, or "white space" issues. Thanks to the advanced operation of drm141 Digital Receiver Modules, SpectraPulse system stability rivals that of traditional systems. And unlike traditional wireless and older digital wireless methods, reflected signals (sometimes called multipath) actually enhance SpectraPulse digital signal quality, adding to signal strength and intelligibility.

Secure Communication

Operating below the ambient RF noise floor, with pulses only 2 nanoseconds in duration, SpectraPulse offers levels of security that have never before been commercially available in wireless microphones. The inherently secure system offers an optional 128-bit AES encryption package for customers who want to use SpectraPulse systems in sensitive environments. The National Security Agency has approved AES 128-bit encryption to protect classified information.

The SpectraPulse® Ultra Wideband System has been recognized for outstanding technical achievement in the Wireless Technology category at the 24th annual Technical Excellence & Creativity Awards (TEC).

Affordable & Simple to Install/Operate

Think digital innovation is bound to come with a steep price tag? Not so. SpectraPulse wireless is extremely cost-competitive with FM wireless. Using as few as two channels, the SpectraPulse cost begins to drop below the per-channel cost of competitive wireless systems. Using 14 channels with four drm141 Digital Receiver Modules, the SpectraPulse price-per-channel drops below that of the world-acclaimed Audio-Technica 5000 Series UHF Wireless Systems.

But perhaps the biggest cost savings comes in knowing that the frequencies in which the SpectraPulse system operates are not part of the regulatory auctions, re-purposing, or White Spaces/National Broadband reclamation. Your investment is safe today and for years to come. It's a space- and time-saver too. A 14-channel SpectraPulse system occupies just three rack spaces, while traditional FM systems use at least nine. The labor and parts for installation, interconnect, and setup are far lower for the SpectraPulse system, as are training and operational difficulty levels.

Versatile
Up to 75' range per drm (4-drm maximum)

Practical
14 simultaneous channels

Simple
Extremely simple setup and operation

Durable
Rugged metal construction for long-lasting performance

Affordable
Extremely cost-competitive with traditional FM wireless

Proven
Award-winning performance, over 1000 channels in use

SpectraPulse® Ultra Wideband Digital Wireless System Components

scan for more info

mtu101 Boundary Microphone Transmitter Unit

The mtu101 Microphone Transmitter Unit in a boundary mic design features a programmable touch-sensitive switch for push-to-talk, push-to-mute, or toggle operation.

mtu201 XLR Desk Stand Transmitter Unit

The mtu201 XLR Desk Stand Transmitter is optimized for use with Audio-Technica Engineered Sound® gooseneck microphones. The unit features a programmable touch-sensitive switch for push-to-talk, push-to-mute, or toggle operation.

mtu301 Body-pack Transmitter Unit

The mtu301 Body-pack Transmitter allows speakers the flexibility to transmit audio as they move throughout the entire SpectraPulse coverage area. The mtu301 can be used with Audio-Technica Wireless Essentials® lavalier and headworn microphones.

drm141 Digital Receiver Module

The drm141 Digital Receiver Module consists of a completely integrated UWB antenna and 14 channels of digital wireless transceiving with power and data carried over a single shielded Cat-5 cable connection.

aci707 Audio Control Interface

The aci707 Audio Control Interface is a 1U rack mounting unit allowing the demultiplexing and audio output of up to seven channels, which are simply selected on any of the SpectraPulse transmitters. Seven distinct line/mic level audio outputs are provided on standard Phoenix-type connectors. Two aci707 units can be linked together to provide the full 14 channels of audio outputs.

rcu104 Receiver Coordinator Unit

The rcu104 Receiver Coordinator allows for expanded coverage area and use in adjacent rooms. The rcu104 is a 1U rack mounting unit that utilizes patent-pending digital level, identification, performance algorithm and control software to receive data streams from up to four drm141 Digital Receiver Modules and create a single data stream that can be interpreted by up to two linked aci707 Audio Control Interface devices.

sep128 128-Bit Encryption Software

The sep128 software encryption package allows the user to add an additional level of encryption to a SpectraPulse system.

cei007 Charger Encryption Interface

A separate charger/encryption unit, the cei007 Charger Encryption Interface charges up to seven mtu101's / mtu201's and allows for encrypting the transmitter units using optional encryption software.

chg001 Wall Charger

The chg001 is a wall charger for SpectraPulse mtu301 body-pack transmitters using rechargeable AA NiMH batteries.

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