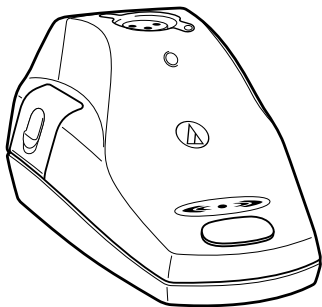# SpectraPulse®
Ultra Wideband
Wireless Microphone System

mtu201   Wireless XLR Desk Stand

Set-up and Operation

spectrapulse ®

(A)audio-technica.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following conditions:
(1) This device may not cause harmful interference and
(2) This device must accept any interference received, including interference which may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is unlikely to cause harmful interference. However, if the equipment does cause harmful interference, the user will be required to correct the interference at own expense.

CAUTION! Electrical shock can result from removal of SpectraPulse® components' covers. Refer servicing to qualified service personnel. No user-serviceable parts inside. Do not expose to rain or moisture.

The circuits inside the SpectraPulse® components have been precisely adjusted for optimum performance and compliance with federal regulations. Do not attempt to open the drm141 Digital Receiver Module (main assembly), aci707 Audio Control Interface, mtu101 Boundary Microphone Transmitter, mtu201 XLR Desk Stand Transmitter, or cei007 Charging/Encryption Interface. To do so will void the warranty, and may cause improper operation.

Notice to individuals <u>with implanted cardiac pacemakers or AICD devices:</u>
Any source of RF (radio frequency) energy may interfere with normal functioning of the implanted device. All wireless microphones have low-power transmitters (less than 0.05 watts output) which are unlikely to cause difficulty, especially if they are at least a few inches away. **Note also that any medical-device disruption will cease when the RF transmitting source is turned off. Please contact your physician or medical-device provider if you have any questions, or experience any problems with the use of this or any other RF equipment.**

Please note that your SpectraPulse® system operates in a frequency band in a way which may make its use subject to certain FCC and other regulatory agency restrictions and licensing requirements. No changes or modifications may be made to this equipment except by the expressly approved responsible party for compliance. Changes or modifications could void the user's authority to operate the equipment, and will also void Audio-Technica warranty coverage. For further information, Please contact your local office of the FCC as applicable.

Battery precautions
- Each mtu201 Wireless XLR Desk Stand is powered by 2 AA batteries; alkaline batteries are included, but rechargeable SANYO brand NiMH AA batteries are recommended.
- Each cei007 Charging/Encryption Interface comes equipped with 14 rechargeable SANYO brand NiMH AA batteries. **Note: Other models of NiMH batteries may work, but the cei007, mtu101 and mtu201 are optimized for use with SANYO NiMH AA batteries.**
- SpectraPulse® cei007 Charging/Encryption Interface is intended only for use of mtu101 Boundary Microphone Transmitters and mtu201 XLR Desk Stand Transmitters equipped with rechargeable AA Nickel Metal Hydride (NiMH) batteries. Do not use the charging station for products other than the Audio-Technica SpectraPulse® system. **WARNING:** Do not use the cei007 Charging/Encryption Interface to charge batteries of other types besides NiMH or damage may result.
- Rechargeable batteries must be charged before initial use or after prolonged non-use.
- When recharging, follow instructions in the *SpectraPulse® Owners Manual*.
- When inserting batteries into the mtu201, observe correct polarity as marked.
- Do not use a leaking battery. If battery leakage occurs, avoid contact with skin. If contact occurs, immediately wash thoroughly with soap and water. If battery leakage comes into contact with your eyes, immediately flush with water and seek medical attention.
- Do not expose the batteries to fire. Do not heat, deform, solder, disassemble or modify.
- Do not peel off or damage the outer tube of a battery.
- Do not use these batteries together with dry cells, other types of batteries, new and old batteries together, or batteries with different charge levels.

Note: This SpectraPulse® system is approved for indoor use only.

Note: See *SpectraPulse® Owners Manual* for full system specifications.

Contents

What's in the box:
• SpectraPulse® mtu201 XLR Desk Stand Transmitter(s)
• AA Alkaline batteries (2 batteries per transmitter)

mtu201
XLR Desk Stand Transmitter
Installation & Operation

Thank you for purchasing the mtu201 XLR Desk Stand Transmitter, a component of Audio-Technica's SpectraPulse® Ultra Wideband Wireless Microphone System. Please follow the information contained in this manual closely, and refer to the *SpectraPulse® Owners Manual* for system operating instructions.

The mtu201 XLR Desk Stand Transmitter is optimized to work with Audio-Technica Engineered Sound® gooseneck microphones with 3-pin XLRM-type output. The unit provides phantom power to the microphone and features a programmable touch-sensitive switch (for push-to-talk, push-to-mute, or toggle operation) and 9-hour rechargeable battery life. It also offers an on/off switch and LEDs indicating power/mute and link status as well as low-battery warning. Each mtu201 operates using 2 AA batteries. Standard alkaline or NiMH rechargeable batteries can be used. Charging contacts on the base of the mtu201 allow it to be dropped into the Audio-Technica cei007 Charging/Encryption Interface; see *SpectraPulse® Owners Manual* for instructions.

1. Insert 2 fully charged rechargeable NiMH AA batteries or 2 fresh AA 1.5V batteries in each mtu201 XLR Desk Stand Transmitter. (See *Battery Selection & Battery Installation, page 6*). **Note: Be certain the NiMH batteries are fully charged: see *SpectraPulse® Owners Manual.***

2. Select a unique channel address on the bottom of each mtu201 XLR Desk Stand Transmitter. (1-7 for the first aci707 audio control interface unit used; 8-14 for the second aci707 unit). (See *Channel Address Selection, page 6*.)

3. Connect an Engineered Sound® gooseneck microphone with 3-pin XLRM-type output to the XLRF-type input on the mtu201 XLR Desk Stand Transmitter.

4. Turn on the power switch on the bottom of each mtu201. The Power LED on the top of the base will glow blue. (See *Power On/Power Off, page 6*.)

5. Confirm link status. If the mtu201 XLR Desk Stand Transmitter is properly linked, the Link LED will glow blue and the top green light on the corresponding aci707 channel will light. (See *SpectraPulse® Owners Manual*.)

6. Confirm mute/live audio status. When the audio is on, the elliptical Live Audio LEDs glow blue. To change mute status, depress the desk stand transmitter's soft-touch switch. (See *Audio/Mute LED, page 7*). (**Note: Switch function is programmable. *See SpectraPulse® Owners Manual.***)

7. Confirm battery status. Low battery is indicated by blinking power light (at the top of the desk stand transmitter). (See *Low Battery Warning, page 7*.)

8. With the aci707 on and connected as desired, the drm141 connected, and the XLR desk stand transmitter on, speak into each microphone and verify audio operation. Set the input levels on your connected equipment as needed. (If connected equipment requires line-level inputs, set DIP Switch #6 to line level as described in *DIP Switch 6 selects Line or Mic level* in *SpectraPulse® Owners Manual*). You are now set to use the system.

Note: For SpectraPulse® system operation, see *SpectraPulse® Owners Manual.*

mtu201
XLR Desk Stand Transmitter Controls

1. Battery Selection and Installation
The mtu201 Wireless XLR Desk Stand Transmitter operates on two AA batteries (standard alkaline or rechargeable). Please make certain that your batteries are fresh or fully charged. Two AA 1.5V alkaline batteries are included with each desk stand transmitter. SANYO rechargeable NiMH AA batteries (preferred for best battery-life performance) are included with the optional cei007 Charging/Encryption Interface. **Note: Other models of NiMH batteries may work, but the cei007 and the mtu201 are optimized for use with SANYO NiMH AA batteries.**

a   Open the battery door by sliding the button down.
b. Insert two fresh or fully charged AA batteries into the battery compartment, being careful to **observe correct polarity as marked on the inside of the door.**
c. Close the battery door.

2. Channel Address Selection
Channel address selection is via a rotary switch on the bottom of each desk stand transmitter. The switch is numbered for channel addresses 1 through 14; these channel addresses correspond to the audio outputs on the aci707 unit. Use the provided screwdriver to select a different channel address for each desk stand transmitter (you cannot have two microphones on the same channel address). The Audio Control Interface (aci707) comes from the factory set for channel addresses 1 through 7. If you wish to use it for channel addresses 8 through 14, change the DIP switch on the back panel of the aci707 as described in the *SpectraPulse® Owners Manual.*

3. XLRF-type Connector
The mtu201 XLR Desk Stand Transmitter is equipped with a 3-pin XLRF-type connector for connection to any Audio-Technica Engineered Sound® gooseneck microphone with 3-pin XLRM-type output.

4. Power On/Off
A slide switch on the bottom of each desk stand transmitter turns the unit on and off.

5. Power LED and Low-battery Warning
The Power LED on the top of the desk stand transmitter glows blue to indicate the power is on.

When battery performance is low, the Power LED will blink as a warning. When the system is linked, a bottom orange LED on the corresponding aci707 channel will illuminate to provide additional indication of low-battery status.
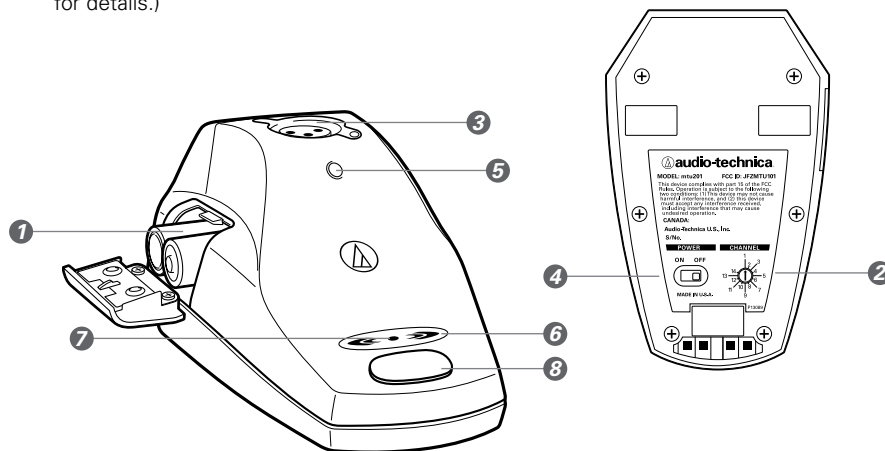
6. Audio/Mute LED
When a desk stand transmitter's audio is on, the elliptical Audio/Mute LEDs glow blue. When the unit is muted, the LEDs are off. A red light on the corresponding aci707 channel also indicates when audio is muted.

7. Link LED
The Link LED glows blue to indicate the desk stand transmitter is properly linked to the system. (The top green light on the corresponding aci707 channel also lights.)

8. Soft-touch Button
A soft-touch button on the front face of the desk stand transmitter operates as a mute (press on/off) switch or a control switch; to change mute status, depress the soft-touch button. Choose the function of the button (Push-to-talk, Push-to-Mute, Toggle, and Off) at the SpectraPulse® aci707 Audio Control Interface. (See *SpectraPulse® Owners Manual* for details.)

Specifications

Input connector	XLR-female low impedance intended for use with Audio-Technica gooseneck microphone of Engineered Sound series.
Bias voltage to mic feed	The mtu201 delivers 11.5V DC to the XLR connector in order to power any of the A-T Engineered Sound series microphones.
Battery type	Two 1.5 volt AA alkaline batteries are included. Rechargeable SANYO brand NiMH AA batteries are recommended; they are included with the available cei007 Charging/Encryption Interface.
Battery life	Approximately 9 hours depending on battery type and use
Current Consumption	180 mA at 3V DC
Average RF power	40 nanowatts
Weight	612 g (1.35 lb.)
Dimensions	82.6 mm (3.25") W x 131 mm (5.19") D x 63.0 mm (2.48") H
Optional Encryption	AES level 3, 128 bit

⑭audio-technica.

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