

# ATW-T210a

2000 series wireless systems

## Frequency-agile UHF UniPak® Body-pack Transmitter



### Features

- Rugged housing with a reversible clothing clip
- Recessed locking HRS-type microphone input connector
- LED "on" indicator
- 10 compatible user-switchable channels in one of two UHF frequency ranges
- Microphone or line input with DC bias voltage
- Internal channel selector switch
- Internal trim controls for mic and line inputs
- Integrated two-position top-mounted power/mute switch
- Digital Tone Lock™ to identify the wireless transmitter to the receiver
- Operates on two AA batteries
- Field replaceable whip antenna

### Description

The ATW-T210a wireless UniPak® body-pack transmitter has both low- and high-impedance input connections along with a DC bias voltage connection for use with dynamic and electret condenser microphones as well as Hi-Z instrument pickups. Separate input trim controls are provided for each input along with a ten-position channel selector switch. All adjustment controls are hidden behind the transmitter's battery door and an adjustment tool is provided with the transmitter. A locking 4-pin HRS-type input connector is provided for both inputs. The connector is recessed to protect the connection and input cable. Sophisticated Tone Lock™ tone squelch eliminates the need for a separate mute button allowing the two-position, positive-action mechanical switch to function for both power and mute. The switch is located on the top of the transmitter for easy access and can be operated without looking at the transmitter. An RF power select switch offers high and low settings. A battery condition indicator shows that the batteries are good. The transmitter operates on two standard AA batteries providing over eight hours of continuous operation. Constructed of rugged high-impact materials, the transmitter incorporates a latching captive battery door, field replaceable antenna and reversible belt clip.

### Architect's and Engineer's Specifications

The frequency-agile FM wireless body-pack transmitter shall be part of a wireless system offered in two UHF bands, 656.125–678.500 and 487.125–506.500 MHz. The body-pack transmitter shall have inputs for microphone and line level inputs. It shall provide DC voltage to power microphones requiring DC bias. The body-pack transmitter shall have a reversible clip allowing for up or down cable entry. A two-position positive-action mechanical power/mute switch operable without looking at the transmitter shall be provided. Transmitters using separate mute and power buttons shall be unacceptable. The transmitter shall have a recessed input connector and illuminated indicator to indicate battery condition. Ten selectable channels shall be available. Channel selection shall be via a recessed rotary selector and the proper tool shall be included with the

transmitter. The device shall have an LED indicator when it is turned on. There shall be individual trim adjustments on each input. The transmitter shall include a Tone Lock™ to identify the wireless transmitter to the wireless receiver. This transmitter shall operate on two AA batteries and provide an RF power select switch with high and low settings. All channel settings and level adjustments shall be hidden behind a latching cover to prevent unnecessary access. The transmitter shall have a removable and field replaceable antenna.

The FM wireless transmitter shall be an Audio-Technica ATW-T210a or equivalent.

### Specifications

RF power output (50 ohms)	High: 30 mW, Low: 10 mW
Spurious emissions	Following federal and national regulations
Input connection	Four-pin locking connector
	Pin 1: GND Pin 2: INST INPUT Pin 3: MIC INPUT Pin 4: DC BIAS +9V
Batteries	Two 1.5V AA alkaline (not included) or two 1.2V AA NiMH (not included) <i>Recharging power for NiMH batteries (with ATW-CHG2)</i> <i>U.S./Canada/Latin America: 3.2 V DC --- 230 mA x2</i> <i>Other world areas: 3.2 V DC --- 320 mA x2</i>
Battery life	High: 7 hours (alkaline), Low: 9 hours (alkaline) Depending on battery type and use pattern
Dimensions	66.0 mm (2.60") W x 22.5 mm (0.89") D x 92.3 mm (3.63") H
Net weight	81 g (2.9 oz), without batteries

In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

Specifications are subject to change without notice.



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