

# ATW-T1801

1800 series wireless systems

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



### Features

- Rugged housing with a reversible clothing clip
- Recessed locking 4-pin microphone input connector
- Dual color LED "on"/mute indicator
- Dual RF power output selection to optimize battery life
- Digital Tone Lock™ to identify the wireless transmitter to the receiver
- Operates on 2 AA batteries
- Battery fuel gauge on LCD readout
- 996 frequencies (25 kHz steps) in either the 541.500–566.375 MHz or 655.500–680.375 MHz band
- Microphone or line input with DC bias voltage
- 24 dB audio input level adjustment
- Function menu displayed in an LCD window, controlled by internal touch switches
- Power/mute lock provision as well as safety door to cover controls

### Description

The 1800 Series frequency-agile true diversity UHF wireless systems provide a new standard for audio and RF performance with user-friendly features and flawless operation for camera-mount and special remote applications. The systems provide the audio quality, range and reliability necessary for the most demanding requirements of today's video and audio systems.

The ATW-T1801 UniPak® body-pack transmitter has both low and high impedance inputs plus a 5V DC bias connection allowing it to be used with condenser and dynamic microphones, as well as Hi-Z instrument pickups. The locking 4-pin HRS-type audio input connector is recessed to protect the connector from damage. Operating on two standard AA batteries, the transmitter features high- and low-level RF output settings. The low-level setting allows 2 additional hours of battery life while retaining a strong RF signal link. Soft-touch controls provide convenient access to a variety of functions including RF power, audio input level, power/mute locks and frequency selection. The transmitter's backlit LCD display presents a great deal of setup and operating information clearly and conveniently including battery fuel remaining, mute, and operating frequency. A two-color LED, which can be seen from the top or side of the transmitter, indicates power on and mute status. A flashing "Lo-Batt" alert visually signals the battery is almost depleted. Programmable power/mute locks limit the functioning of the transmitter's power/mute button as desired for particular users and applications. To match the audio input level to the transmitter, a five-position audio input gain setting selected through the function menu is provided.

The body-pack features a safety cover to protect the soft-touch controls from being accidentally activated and a recessed input connector to increase the life of the microphone cable. Constructed of high impact materials, the body-pack transmitter features a field replaceable whip

antenna and captive battery cover door.

Additionally, the frequency configuration used in the 1800 Series components allows them to be interchangeable with the Audio-Technica 3000 Series components.

### Architect's and Engineer's Specifications

The frequency-agile FM body-pack transmitter shall be part of a wireless microphone system consisting of a receiver and the appropriate transmitter. Operating in the UHF bands of either 541.500–566.375 MHz or 655.500–680.375 MHz the system shall be capable of operating on any of 996 PLL-synthesized frequencies per band (adjustable in 25 kHz steps).

The frequency-agile FM wireless body-pack transmitter shall have microphone and line level inputs. Connections shall be via a recessed 4-pin locking connector. 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 dual color LED indicator shall illuminate "green" when the transmitter is turned on and "red" when the transmitter is muted. The transmitter shall have an audio input level adjustment range of 24 dB. All adjustments shall be via soft-touch controls and shall remain as set even if the transmitter loses power or the batteries are removed. A sliding door shall cover the setup controls when not in use. The transmitter shall operate on two AA batteries and contain a Hi/Lo power selector. The transmitter shall be equipped with a backlit LCD screen used to show operating frequency and programming status. A battery fuel gauge shall be incorporated into the display to indicate the status of the internal batteries. The transmitter housing shall be of high-impact materials with a captive battery door. The transmitter antenna shall be removable and field replaceable.

The wireless body-pack transmitter shall be an Audio-Technica ATW-T1801 or equivalent.

### Specifications

RF power output	High: 30 mW; Low: 10 mW, nominal
Spurious emissions	Under federal regulations
Dynamic range	>105 dB, A-weighted
Input connections	High impedance, low impedance, bias
Batteries	Two 1.5V AA alkaline (not included)
Current consumption	High: 180 mA; Low: 160 mA, typical
Battery life	Approximately 6 hours (High); 8 hours (Low), depending on battery type and use pattern
Dimensions	66.0 mm (2.60") W x 87.0 mm (3.43") H x 24.0 mm (0.94") D
Net weight	80 g (2.8 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.



Audio-Technica U.S., Inc., 1221 Commerce Drive, Stow, Ohio 44224  
Audio-Technica Limited, Old Lane, Leeds LS11 8AG England  
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