

AEW-T1000a

5000 & 4000 series artist elite® wireless systems

Frequency-agile UHF UniPak® Body-pack Transmitter



Features

- 996 selectable frequencies in either the 541.500–566.375 MHz or 655.500–680.375 MHz band
- 25 kHz frequency spacing makes it easier to find a clear, open frequency in crowded RF environments
- Dual RF power output selection to optimize battery life
- Digital Tone Lock™ squelch that communicates transmitter data to the receiver
- Function menu displayed in a backlit LCD window, controlled by internal soft-touch controls
- High efficiency dual companding system for flawless audio
- Four namable user presets
- Battery fuel gauge on LCD readout
- Recessed microphone input connector
- Power/mute lock provision as well as safety door to cover controls
- Dual-color power/mute status indicator
- Microphone or line input with DC bias voltage
- 18 dB audio input level adjustment
- Operates on two AA batteries
- Captive locking battery compartment door
- Adjustable squelch
- Rugged metal housing with a reversible clothing clip

Description

The AEW-T1000a wireless UniPak® body-pack transmitter has both low and high impedance inputs plus a 5V DC bias connection allowing it to be used with both condenser and dynamic microphones. The locking 4-pin HRS-type audio input connector is recessed to protect the connection from damage. A dual-color power/mute indicator LED provides visual indication of transmitter status. The transmitter operates using two standard AA batteries and features high- and low-level RF output settings. The low-level setting allows two 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. Each 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 flashing "Lo-Batt" alert visually signals the battery life is almost depleted. Programmable power/mute locks limit the functioning of transmitter's power/mute button as desired for particular users and applications. Four namable user presets allow for storage and recall of commonly used settings. To match the audio input level to the transmitter, a ten-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. Inputs are available on the

UniPak® for low impedance microphone and high impedance musical instrument or line input. Constructed of metal, the body-pack transmitter features a field replaceable antenna and captive locking battery cover door. A short rigid helical antenna, a flexible wire antenna, and a soft protective pouch are included with the transmitter.

Architect's and Engineer's Specifications

The frequency-agile FM wireless body-pack transmitter shall have microphone and line level inputs. It shall provide DC voltage to power microphones requiring DC bias. The body-pack transmitter shall have a reversible clothing clip allowing for up or down cable entry. The transmitter shall have a recessed 4-pin locking input connector and a viewable fuel gauge to indicate the remaining battery life. Operating in the bands of either 541.500–566.375 MHz or 655.500–680.375 MHz, it shall be capable of operating on any of 996 PLL-synthesized frequencies per band, selected with the soft-touch controls under the safety panel.

The device shall have a dual-color LED indicator to indicate it is turned on and/or muted. A backlit LCD display shall be provided to show system configuration parameters, transmitter name, or frequency. There shall be an adjustment to allow input gain changes of up to 18 dB. A soft-touch mute/power control shall operate independently from the configuration controls. It shall be possible to electrically lock the transmitter mute/power function. The transmitter shall utilize a dual compander system to process high and low audio frequencies separately and shall incorporate a digital tone lock to identify the wireless transmitter to the wireless receiver. A digital communications protocol shall enable the transmitter to send operational function data to the receiver. The transmitter shall utilize two RF output power levels and shall operate on two AA batteries. The transmitter battery compartment shall incorporate a captive locking cover. 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 cover shall protect the controls from unauthorized access. It shall be possible to store transmitter settings into one of four namable user presets for ease of recall. The transmitter shall have a removable and field replaceable antenna. A short rigid helical antenna, a flexible wire antenna, and a soft protective pouch shall be supplied with the transmitter.

The wireless body-pack transmitter shall be an Audio-Technica AEW-T1000a or equivalent.

Specifications

RF power output	High: 35 mW; Low: 10 mW, nominal
Spurious emissions	Under federal regulations
Dynamic range	Microphone: ≥110 dB, A-weighted Instrument: ≥100 dB, A-weighted
Input connections	High impedance, low impedance, bias
Batteries	Two 1.5V AA alkaline (not included)
Current consumption	High: 185 mA; Low: 165 mA, typical
Battery life	Approximately 8 hours (High); 10 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	125 g (4.4 oz) (without batteries)
Accessory included	Pouch

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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