

# 4000SERIES

## FREQUENCY-AGILE TRUE DIVERSITY UHF WIRELESS SYSTEMS

THE NEW STANDARD IN LIVE AUDIO



**AEW-R4100**  
Receiver



**AEW-T1000**  
UniPak™ Transmitter



**AEW-T4100**  
**AEW-T6100**  
Dynamic Handhelds

**AEW-T3300**  
**AEW-T5400**  
Condenser Handhelds

### SYSTEM FEATURES

- 200 selectable UHF channels per band and True Diversity reception for interference-resistant operation
- Dual Compressor circuitry processes high and low frequencies separately for unmatched audio quality
- Advanced digital Tone Lock™ squelch effectively blocks stray RF; the digitally encoded tone also communicates transmitter data for receiver display
- Link and coordinate multiple AEW receivers via included data cables; also link to 5000 Series receiver
- IntelliScan™ feature automatically finds and sets best available frequencies on all linked receivers
- All transmitters offer rugged, ergonomic metal bodies, programmable features, soft-touch controls and 10 mW/35 mW switchable RF power
- All components may also be used with **AEW-R5200** receivers



## SPECIFICATIONS\*

### Overall System

|                             |  |
|-----------------------------|--|
| UHF Operating Frequency     | Band C: 541.500 to 566.375 MHz<br>Band D: 655.500 to 680.375 MHz |
| Number of Channels          | 200 total per band   |
| Frequency Stability         | ± 0.005%, Phase Lock Loop frequency control                      |
| Modulation Mode             | FM   |
| Normal Deviation            | ±5 kHz   |
| Operating Range             | 300' typical   |
| Operating Temperature Range | 41° F (5° C) to 113° F (45° C)                                   |
| Frequency Response          | 70 Hz to 15 kHz  |

### AEW-R4100 Receiver

|                                   |  |
|-----------------------------------|--|
| Receiving System                  | Dual independent RF sections, automatic-switching diversity  |
| Image Rejection                   | 60 dB typical  |
| Signal-to-noise Ratio             | 115 dB at 40 kHz deviation (IEC-weighted, 75 kHz maximum modulation)                                     |
| Total Harmonic Distortion         | ≤1% (10 kHz deviation at 1 kHz)  |
| Sensitivity                       | 20 dBµV (S/N 70 dB at 5 kHz deviation, IEC-weighted)   |
| Intermediate Frequency            | 65.75 MHz, 10.7 MHz  |
| Audio Output (ATTN switch at "0") |  |
| Microphone:                       | 25 mV (at 1 kHz, ±5 kHz deviation, 10k ohm load)   |
| Instrument:                       | 50 mV (at 1 kHz, ±5 kHz deviation, 10k ohm load)   |
| Audio Output Attenuator (ATTN)    | Three-position switch: 0/-6/-12 dB   |
| Output Connectors                 |  |
| Microphone:                       | XLRM-type  |
| Instrument:                       | 1/4" (6.3 mm) TS unbalanced phone jack   |
| Headphone Output                  |  |
| Connector:                        | 1/4" (6.3 mm) TRS ("stereo") phone jack  |
| Power Output:                     | 10 mW + 10 mW at 1 kHz, ±5 kHz deviation into 32 ohms; maximum output: 220 mW + 220 mW into 32 ohms      |
| Antenna Terminal Voltage          | DC 10V-12V, 20 mA (BNC-type jack)  |
| Power Supply                      | 100-240V AC 50/60 Hz; 8W   |
| Dimensions                        | 8.31" (211.0 mm) W x 1.74" (44.0 mm) H x 9.26" (235.0 mm) D  |
| Net Weight (without accessories)  | 3.8 lbs (1.7 kg)   |
| Accessories Included              | Detachable IEC-type AC power cable; two flexible UHF half-wave antennas; link cable; rack-mount adapters |

### AEW-T1000 UniPak™ Transmitter

|                                |   |
|--------------------------------|---|
| 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 (not included)       | Two 1.5V AA alkaline  |
| 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                     | 2.60" (66.0 mm) W x 3.43" (87.0 mm) H x 0.94" (24.0 mm) D; not including antenna        |
| Net Weight (without batteries) | 4.4 oz (125 g)  |

### AEW-T3300, AEW-T4100, AEW-T5400, AEW-T6100 Handheld Transmitters

|                                |  |
|--------------------------------|--|
| RF Power Output                | High: 35 mW; Low: 10 mW, nominal   |
| Spurious Emissions             | Under federal regulations  |
| Dynamic Range                  | ≥110 dB, A-weighted  |
| Microphone Element             |  |
| AEW-T3300                      | Cardioid Condenser   |
| AEW-T4100                      | Cardioid Dynamic   |
| AEW-T5400                      | Cardioid Condenser   |
| AEW-T6100                      | Hypercardioid Dynamic  |
| Batteries (not included)       | Two 1.5V AA alkaline   |
| Current Consumption            | High: 185 mA; Low: 165 mA, typical   |
| Battery Life                   | Approximately 6 hours (High); 8 hours (Low), depending on battery type and use pattern |
| Dimensions                     |  |
| AEW-T3300, AEW-T5400           | 9.41" (239.0 mm) long, 1.97" (50.0 mm) maximum diameter                                |
| AEW-T4100, AEW-T6100           | 9.33" (237.0 mm) long, 1.89" (48.0 mm) maximum diameter                                |
| Net Weight (without batteries) |  |
| AEW-T3300                      | 9.5 oz (270 g)   |
| AEW-T4100                      | 9.7 oz (276 g)   |
| AEW-T5400                      | 10.0 oz (285 g)  |
| AEW-T6100                      | 9.7 oz (275 g)   |

### Accessory Included AT8456a Quiet-Flex™ stand clamp

† 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.

## SYSTEM CONFIGURATIONS

**AEW-4110** UHF Wireless UniPak™ Transmitter System  
Includes: AEW-R4100 receiver and AEW-T1000 UniPak™ transmitter

**AEW-4230** UHF Wireless Handheld Condenser Microphone System  
Includes: AEW-R4100 receiver and AEW-T3300 cardioid condenser microphone/transmitter

**AEW-4240** UHF Wireless Handheld Dynamic Microphone System  
Includes: AEW-R4100 receiver and AEW-T4100 cardioid dynamic microphone/transmitter

**AEW-4250** UHF Wireless Handheld Condenser Microphone System  
Includes: AEW-R4100 receiver and AEW-T5400 cardioid condenser microphone/transmitter

**AEW-4260** UHF Wireless Handheld Dynamic Microphone System  
Includes: AEW-R4100 receiver and AEW-T6100 hypercardioid dynamic microphone/transmitter

**AEW-4313** UHF Wireless Dual Transmitter System  
Includes: AEW-R4100 receiver, AEW-T1000 UniPak™ transmitter, and AEW-T3300 cardioid condenser microphone/transmitter

**AEW-4314** UHF Wireless Dual Transmitter System  
Includes: AEW-R4100 receiver, AEW-T1000 UniPak™ transmitter, and AEW-T4100 cardioid dynamic microphone/transmitter

**AEW-4315** UHF Wireless Dual Transmitter System  
Includes: AEW-R4100 receiver, AEW-T1000 UniPak™ transmitter, and AEW-T5400 cardioid condenser microphone/transmitter

**AEW-4316** UHF Wireless Dual Transmitter System  
Includes: AEW-R4100 receiver, AEW-T1000 UniPak™ transmitter, and AEW-T6100 hypercardioid dynamic microphone/transmitter

