

# 5000SERIES

FREQUENCY-AGILE TRUE DIVERSITY  
UHF WIRELESS SYSTEMS  
WITH COMPUTER INTERFACE

THE NEW STANDARD IN LIVE AUDIO



**AEW-R5200**  
Dual Receiver



**AEW-T1000**  
UniPak™ Transmitter



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

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

## SYSTEM FEATURES

- Two independent receiver channels in a single housing
- 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 cable and/or built-in Ethernet computer interface
- IntelliScan™ feature automatically finds and sets best available frequencies on all linked receivers
- On-board Ethernet interface for monitoring and controlling system parameters with included software
- All transmitters offer rugged, ergonomic metal bodies, programmable features, soft-touch controls and 10 mW/35 mW switchable RF power

SPECIFICATIONS<sup>†</sup>

## Overall System

UHF Operating Frequency	Band C: 541.500 to 566.375 MHz 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-R5200 Dual 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) Both outputs are transformer isolated and balanced
Audio Output Attenuator (ATTN)	Three-position switch: 0/-6/-12 dB
Output Connectors	Microphone: XLRM-type Instrument: 1/4" (6.3 mm) TRS balanced 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. Headphones switchable between Channel 1 and Channel 2
External Mute	1/4" (6.3 mm) TS unbalanced phone jack, each channel
Antenna Terminal Voltage	DC 10V-12V, 20 mA (BNC-type jack)
Computer Interface	Type: Ethernet, 10BaseT mode Connector: RJ-45 Proprietary Software: Supplied on CD-ROM
Power Supply	100-240V AC 50/60 Hz; 15W
Pass-through AC Power Outlet	100-240V AC 50/60 Hz, 5A maximum
Dimensions	18.98" (482.0 mm) W x 1.74" (44.0 mm) H x 10.85" (275.5 mm) D

Net Weight (without accessories)	8.8 lbs (4.0 kg)
Accessories Included	Detachable IEC-type AC power cable; two flexible UHF half-wave antennas; link cable; IEC type AC pass-through cable; front-mount antenna cables and connectors; CD-ROM with computer control interface software; AEW-TB44 transmitter bag

## 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

<sup>†</sup> 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-5111 UHF Wireless Dual-UniPak™ Transmitter System

Includes: AEW-R5200 receiver and two AEW-T1000 UniPak™ transmitters

## AEW-5233 UHF Wireless Dual-Handheld Condenser Microphone System

Includes: AEW-R5200 receiver and two AEW-T3300 cardioid condenser microphone/transmitters

## AEW-5244 UHF Wireless Dual-Handheld Dynamic Microphone System

Includes: AEW-R5200 receiver and two AEW-T4100 cardioid dynamic microphone/transmitters

## AEW-5255 UHF Wireless Dual-Handheld Condenser Microphone System

Includes: AEW-R5200 receiver and two AEW-T5400 cardioid condenser microphone/transmitters

## AEW-5266 UHF Wireless Dual-Handheld Dynamic Microphone System

Includes: AEW-R5200 receiver and two AEW-T6100 hypercardioid dynamic microphone/transmitters

## AEW-5313 UHF Wireless Dual-Transmitter System

Includes: AEW-R5200 receiver, AEW-T1000 UniPak™ transmitter, and AEW-T3300 cardioid condenser microphone/transmitter

## AEW-5314 UHF Wireless Dual-Transmitter System

Includes: AEW-R5200 receiver, AEW-T1000 UniPak™ transmitter, and AEW-T4100 cardioid dynamic microphone/transmitter

## AEW-5315 UHF Wireless Dual-Transmitter System

Includes: AEW-R5200 receiver, AEW-T1000 UniPak™ transmitter, and AEW-T5400 cardioid condenser microphone/transmitter

## AEW-5316 UHF Wireless Dual-Transmitter System

Includes: AEW-R5200 receiver, AEW-T1000 UniPak™ transmitter, and AEW-T6100 hypercardioid dynamic microphone/transmitter

## AEW-5413 UHF Wireless Dual-UniPak™ and Dual-Handheld Condenser System

Includes: AEW-R5200 receiver, two AEW-T1000 UniPak™ transmitters, and two AEW-T3300 cardioid condenser microphone/transmitters

## AEW-5414 UHF Wireless Dual-UniPak™ and Dual-Handheld Dynamic System

Includes: AEW-R5200 receiver, two AEW-T1000 UniPak™ transmitters, and two AEW-T4100 cardioid dynamic microphone/transmitters

## AEW-5415 UHF Wireless Dual-UniPak™ and Dual-Handheld Condenser System

Includes: AEW-R5200 receiver, two AEW-T1000 UniPak™ transmitters, and two AEW-T5400 cardioid condenser microphone/transmitters

## AEW-5416 UHF Wireless Dual-UniPak™ and Dual-Handheld Dynamic System

Includes: AEW-R5200 receiver, two AEW-T1000 UniPak™ transmitters, and two AEW-T6100 hypercardioid dynamic microphone/transmitters

