

# FREQUENCY-AGILE TRUE DIVERSITY UHF WIRELESS SYSTEMS

ATW-3110a UniPak™ Transmitter System  
ATW-3131a Lavalier Microphone System  
ATW-3141a Handheld Dynamic Microphone System  
ATW-3171a Handheld Condenser Microphone System

## 3000 SERIES



ATW-R3100  
Receiver



ATW-T310  
UniPak™  
Transmitter



ATW-T341  
Dynamic Handheld



ATW-T371  
Condenser Handheld

### SYSTEM FEATURES

- Automatic frequency scanning
- 200 selectable UHF channels
- True diversity operation
- Advanced digital Tone Lock™ squelch
- LCD information display
- Balanced XLR and unbalanced 1/4" outputs
- Step-through menus for setting preferences
- Transmitter battery-life fuel gauge on receiver
- ATW-T310 UniPak™ transmitter features dual-impedance input
- ATW-T341 Handheld Dynamic Microphone/Transmitter features the Artist Elite® AE4100 capsule
- ATW-T371 Handheld Condenser Microphone/Transmitter features the Artist Series™ ATM710 capsule
- Up to 16 simultaneous systems per frequency band for a total maximum of 32 simultaneous systems across two bands

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# 3000 SERIES

## Specifications†

### 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	±10 kHz
Operating Range	300' typical
Operating Temperature Range	41° F (5° C) to 113° F (45° C)
Frequency Response	70 Hz to 15 kHz

### ATW-R3100 Receiver

Receiving System	Dual independent receivers, automatic-switching diversity
Image Rejection	60 dB nominal, 55 dB minimum
Signal-to-noise Ratio	110 dB at 35 kHz deviation (IEC-weighted), maximum modulation 75 kHz
Total Harmonic Distortion	≤1% (10 kHz deviation at 1 kHz)
Sensitivity	24 dBµV (S/N 60 dB at 5 kHz deviation, IEC-weighted)
Intermediate Frequency	243.950 MHz, 10.7 MHz
Audio Output	
Unbalanced:	50 mV (at 1kHz, ±5 kHz deviation, 10k ohm load)
Balanced:	32 mV (at 1kHz, ±5 kHz deviation, 10k ohm load)
Output Connectors	
Unbalanced:	1/4" TS ("mono") phone jack
Balanced:	XLRM-type
Power Supply	120V AC 60 Hz, or 12-18V DC, 500 mA, center positive, with external supply
Dimensions	8.27" (210.0 mm) W x 1.93" (49.0 mm) H x 7.20" (183.0 mm) D
Weight	2.4 lbs (1.1 kg)
Accessories Included	AC adapter; two flexible UHF antennas; rack-mount adapters

### ATW-T310 UniPak™ Transmitter

RF Power Output	High: 30 mW; Low: 10 mW, nominal
Spurious Emissions	Under federal regulations
Dynamic Range	≥110 dB, A-weighted
Input Connections	High impedance, low impedance, bias
Batteries (not included)	Two 1.5V AA alkaline
Current Consumption	High: 200 mA; Low: 150 mA, typical
Battery Life	Approximately 6 hours (High); 8 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
Net Weight (without batteries)	2.8 oz (80 grams)

### Handheld Transmitters

RF Power Output	High: 30 mW; Low: 10 mW, nominal
Spurious Emissions	Under federal regulations
Dynamic Range	
ATW-T341	≥110 dB, A-weighted
ATW-T371	≥108 dB, A-weighted
Microphone Element	
ATW-T341	Dynamic cardioid (unidirectional)
ATW-T371	Condenser cardioid (unidirectional)
Batteries (not included)	Two 1.5V AA alkaline
Current Consumption	High: 230 mA; Low: 180 mA, typical
Battery Life	Approximately 6 hours (High); 8 hours (Low), depending on battery type and use pattern
Dimensions	
ATW-T341	9.33" (237.0 mm) long, 1.89" (48.0 mm) dia.
ATW-T371	9.38" (238.3 mm) long, 2.11" (53.6 mm) dia.
Net Weight (without batteries)	
ATW-T341	9.9 oz (280 grams)
ATW-T371	8.0 oz (227 grams)
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.

### Wireless Essentials™ Microphones and Cables

All Wireless Essentials accessories are terminated for use with all A-T UniPak™ transmitters.

AT829cW	Miniature cardioid condenser lavalier microphone.
MT830cW	Miniature omnidirectional condenser lavalier microphone.
MT830cW-TH	"Theater" model, same as MT830cW except beige color mic and cable.
AT831cW	Miniature cardioid condenser lavalier microphone.
AT889cW	Headworn noise-canceling condenser microphone.
AT892cW	MicroSet® headworn omnidirectional condenser microphone.
AT892cW-CO	Same as AT892cW except cocoa color mic, earset and cable.
AT892cW-TH	"Theater" model, same as AT892cW except beige color mic, earset and cable.
AT898cW	Subminiature cardioid condenser lavalier microphone.

AT899cW	Subminiature omnidirectional condenser lavalier microphone.
AT899cW-TH	"Theater" model, same as AT899cW except beige color mic and cable.
ATM35cW	Cardioid condenser instrument microphone.
ATM73cW	Headworn cardioid condenser microphone.
ATM75cW	Headworn cardioid condenser microphone.
PRO 8HEcW	Headworn hypercardioid dynamic microphone.
PRO 35xcW	Cardioid condenser instrument microphone.
U851cW	Cardioid condenser boundary microphone.
U857ALcW	Cardioid condenser gooseneck microphone. Mounts to 5/8"-27 thread.
AT-GCW	Hi-Z instrument/guitar cable with 1/4" phone plug.
XLRW	Connecting cable for UniPak transmitter with an XLR-type input connector; for Lo-Z microphones with XLRM-type output terminations.

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Visit our Web site @ [www.audio-technica.com](http://www.audio-technica.com) for extensive information on selecting and using wireless systems.

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