

FREQUENCY-AGILE TRUE DIVERSITY UHF WIRELESS SYSTEMS

ATW-3110 UniPak™ Transmitter System
ATW-3141 Handheld Transmitter System

3000 SERIES



ATW-R310



ATW-T310



ATW-T341

SYSTEM FEATURES

- 200 Selectable UHF Channels
- True Diversity Operation
- Advanced Digital Tone Lock™ Squelch
- Soft-touch Controls for Set-up and Operation
- LCD Information Display
- Step-through Menus for Setting Preferences
- Transmitter Battery-life Fuel Gauge on Receiver
- Balanced XLR and Unbalanced 1/4" Outputs
- ATW-T310 UniPak™ Transmitter features Dual-impedance Input
- ATW-T341 Handheld Microphone/Transmitter features the Artist Elite™ AE4100 Capsule

3000 SERIES

Specifications†

Overall System

Operating Frequency	UHF band, 655.500 MHz to 680.375 MHz
Number of Channels	200 total
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-R310 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)
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" phone jack
Balanced:	XLRM-type
Power Supply	120V AC 60 Hz; 12-18V DC, 500 mA, with external supply
Dimensions	8.27" (210.0 mm) W x 1.93" (49.0 mm) H x 6.93" (176.0 mm) D
Weight	2.4 lbs (1.1 kg)
Accessories Included	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)
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)

ATW-T341 Handheld Transmitter

RF Power Output	High: 30 mW; Low: 10 mW, nominal
Spurious Emissions	Under federal regulations
Dynamic Range	≥110 dB, A-weighted
Microphone Element	Dynamic cardioid
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)
Dimensions	9.33" (237.0 mm) long, 1.89" (48.0 mm) dia.
Net Weight (without batteries)	9.9 oz (280 grams)
Accessory Included	AT8456a 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.

Optional System Accessories

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. Includes clothing clip and windscreen.
MT830cW	Subminiature omnidirectional condenser lavalier microphone. Includes clothing clip and windscreen.
MT830cW-TH	"Theater" model, same as MT830cW except beige color mic and cable for concealment.
AT831cW	Miniature cardioid condenser lavalier microphone. Includes clothing clip and windscreen.
AT851cW	Surface-mount wide-range hemi-cardioid condenser microphone.
AT857AMLcW	19" gooseneck cardioid microphone. Mounts to 5/8"-27 thread. Includes windscreen.
AT889cW	Headworn noise-canceling condenser microphone. Includes windscreen and cable clip.
ATM35cW	Cardioid condenser instrument microphone. Includes AT8418 clip-on instrument mount.
ATM73cW	Headworn cardioid condenser microphone. Includes windscreen.

ATM75cW	Headworn cardioid condenser microphone. Includes windscreen and cable clip.
PRO 8HEcW	Headworn hypercardioid dynamic microphone. Includes windscreen and cable clip.
PRO 35xcW	Cardioid condenser instrument microphone. Includes AT8418 clip-on instrument mount.
AT-GCW	Hi-Z instrument/guitar cable with 1/4" phone plug.
XLRW	Connecting cable for UniPak transmitter with an XLRM-type input connector; for Lo-Z microphones with XLRM-type output terminations.

Other

ATW-VP10	Vinyl pouch with belt clip to hold UniPak transmitter.
AT8114	Foam windscreen for handheld transmitter.
AT8141	Water-resistant pouch for UniPak transmitter.
AT8431	Stand clamp for handheld transmitter, 5/8"-27 threads.
AT8630	Joining-plate kit mounts two ATW-R310 receivers in one rack space.



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for extensive information on selecting and using wireless systems

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