

1200 Series VHF True Diversity Wireless Systems

- True diversity reception with two independent RF sections for greatest reliability.
- Full FM deviation improves signal/noise ratio for greater headroom and dynamic range.
- Choice of 20 VHF frequencies for minimum interference.
- InvisibleLink® circuitry for optimum sound quality.
- Ground-lift switch and adjustable squelch.
- Two receivers can be mounted side-by-side in a single 19" rack space.
- ATW-T35 UniPak™ transmitter includes Super Hi-Z input that provides optimum load for guitar pickups.
- ATW-T36HE handheld microphone/transmitter features a Hi-ENERGY® dynamic element and internal pneumatic shock mounting.
- ATW-T37C high-performance handheld condenser microphone/transmitter accepts interchangeable elements for a variety of polar patterns.



ATW-1235 UniPak™ Transmitter System includes:

ATW-R12 Receiver and
ATW-T35 Transmitter
(Select a Wireless Essentials™
microphone or cable to complete
the system)

ATW-1236 Handheld Dynamic Microphone System includes:

ATW-R12 Receiver and
ATW-T36HE Transmitter

ATW-1237 Handheld Condenser Microphone System includes:

ATW-R12 Receiver and
ATW-T37C Transmitter



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Specifications†

Overall System

Operating Frequency	VHF high band, 169.505 to 213.800 MHz
Frequency Stability	± 0.005%, single-frequency crystal-controlled
Modulation Mode	FM
Maximum Deviation Range	± 30 kHz, traveling frequencies ± 15 kHz
Operating Range	200' minimum
Operating Temperature Range	41° F (5° C) to 113° F (45° C)
Frequency Response	100 Hz to 20 kHz

ATW-R12 Receiver

Receiving System	Dual independent receivers, automatic switching diversity
Image Rejection	≥ 60 dB
Signal-to-noise Ratio	112 dB at 30 kHz deviation (IEC-weighted), maximum modulation 75 kHz
Total Harmonic Distortion	≤ 1% (10 kHz deviation at 1 kHz)
Sensitivity	5.6 μV for 60 dB S/N (IEC-weighted)
Intermediate Frequency	10.7 MHz
Audio Output	
Unbalanced	100 mV (at 1 kHz, ±5 kHz deviation, 10k ohm load)
Balanced	31.6 mV (at 1 kHz, ±5 kHz deviation, 10k ohm load)
Output Connectors	
Unbalanced	1/4" phone jack
Balanced	XLRM-type
Power Supply	120V AC 60 Hz; or 12-18V DC, 350 mA, with external supply
Dimensions	8.27" (210.0 mm) W x 1.93" (49.0 mm) H x 8.86" (225.0 mm) D
Net Weight	3.9 lbs (1.8 kg)
Accessories Included	Two whip antennas, rack-mount adapters

ATW-T35 UniPak™ Transmitter

RF Power Output	50 mW Max
Spurious Emissions	Under federal regulations
Dynamic Range	≥ 90 dB
Input Connections	High impedance, low impedance, bias
Battery (not included)	9V (NEDA type 1604) alkaline
Current Consumption	35 mA typical
Battery Life	Approximately 10 hours (depending on battery type and use pattern)
Dimensions	2.40" (61.0 mm) W x 4.23" (107.4 mm) H x 1.08" (27.5 mm) D
Net Weight (without battery)	2.8 oz (78 grams)

ATW-T36HE and ATW-T37C Handheld Transmitters

RF Power Output	50 mW Max
Spurious Emissions	Under federal regulations
Dynamic Range	≥ 90 dB
Microphone Element	
ATW-T36HE	A-T Hi-ENERGY® dynamic hypercardioid
ATW-T37C	A-T condenser hypercardioid
Battery (not included)	9V (NEDA type 1604) alkaline
Current Consumption	35 mA typical
Battery Life	Approximately 10 hours (depending on battery type and use pattern)
Dimensions	
ATW-T36HE	9.27" (235.5 mm) long, 1.49" (37.9 mm) diameter
ATW-T37C	9.38" (238.3 mm) long, 1.46" (37.1 mm) diameter
Net Weight (without battery)	
ATW-T36HE	8.6 oz (245 grams)
ATW-T37C	7.2 oz (204 grams)
Accessory Included	Stand clamp

Optional System Accessories

Wireless Essentials™ Microphones and Cables

All Wireless Essentials are terminated for use with the ATW-T35 and other 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.
ATM35cW	High-intensity cardioid condenser instrument microphone. Includes AT8418 clip-on instrument mount.
ATM73cW	Headworn cardioid condenser microphone. Includes windscreen.
ATM75cW	Headworn cardioid condenser microphone. Includes windscreens 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 XLRF-type input connector, for Lo-Z microphones with XLRM-type output terminations.

Receiver Accessories

AT8628	Mounting plate adapter allows rack-mounting two ATW-R12 receivers side-by-side in a single 19" rack space.
ATW-A10	Pair of ground-plane antennas with 5/8"-27 thread for mounting to mic stands, etc. Takes RF cables with PL259 connectors, not included.
ATW-D12a	Active unity-gain antenna distribution system provides two "1-in, 4-out" amplifier/splitters; connects a pair of antennas to as many as four diversity receivers. Includes two antennas, two input cable adapters and eight output cables.
ATW-RA1	Rack-mount antenna kit brings antenna inputs to the front of receiver for ease of setup, or when receiver is enclosed in a metal rack. Includes a pair of extendible antennas. NOTE: Two adapter kits are required when mounting two receivers side-by-side in a single 19" rack space.

Transmitter Accessories

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.

Interchangeable Elements (for use with ATW-T37C transmitter)

AT853C-ELE	Cardioid element.
AT853H-ELE	Hypercardioid element (included).
AT853O-ELE	Omnidirectional element.
AT853SC-ELE	Subcardioid element.

Visit our Web site @ www.audio-technica.com for extensive information on selecting and using wireless systems.



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Audio-Technica U.S., Inc., 1221 Commerce Drive, Stow, Ohio 44224

Tel: 330/686-2600 Fax: 330/686-0719 E-mail: pro@atus.com

www.audio-technica.com

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† In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.