

# 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

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

### ATW-R12 Receiver

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

### ATW-T35 UniPak™ Transmitter

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

### ATW-T36HE and ATW-T37C Handheld Transmitters

<b>RF Power Output</b>	50 mW Max
<b>Spurious Emissions</b>	Under federal regulations
<b>Dynamic Range</b>	≥ 90 dB
<b>Microphone Element</b>	
ATW-T36HE	A-T Hi-ENERGY® dynamic hypercardioid
ATW-T37C	A-T condenser hypercardioid
<b>Battery</b> (not included)	9V (NEDA type 1604) alkaline
<b>Current Consumption</b>	35 mA typical
<b>Battery Life</b>	Approximately 10 hours (depending on battery type and use pattern)
<b>Dimensions</b>	
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
<b>Net Weight</b> (without battery)	
ATW-T36HE	8.6 oz (245 grams)
ATW-T37C	7.2 oz (204 grams)
<b>Accessory Included</b>	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.

<b>AT829cW</b>	Miniature cardioid condenser lavalier microphone. Includes clothing clip and windscreen.
<b>MT830cW</b>	Subminiature omnidirectional condenser lavalier microphone. Includes clothing clip and windscreen.
<b>MT830cW-TH</b>	"Theater" model, same as MT830cW except beige color mic and cable for concealment.
<b>AT831cW</b>	Miniature cardioid condenser lavalier microphone. Includes clothing clip and windscreen.
<b>AT851cW</b>	Surface-mount wide-range hemi-cardioid condenser microphone.
<b>AT857AMLcW</b>	19" gooseneck cardioid microphone. Mounts to 5/8"-27 thread. Includes windscreen.
<b>ATM35cW</b>	High-intensity cardioid condenser instrument microphone. Includes AT8418 clip-on instrument mount.
<b>ATM73cW</b>	Headworn cardioid condenser microphone. Includes windscreen.
<b>ATM75cW</b>	Headworn cardioid condenser microphone. Includes windscreens and cable clip.
<b>PRO 8HEcW</b>	Headworn hypercardioid dynamic microphone. Includes windscreen and cable clip.
<b>PRO 35xcW</b>	Cardioid condenser instrument microphone. Includes AT8418 clip-on instrument mount.
<b>AT-GCW</b>	Hi-Z instrument/guitar cable with 1/4" phone plug.
<b>XLRW</b>	Connecting cable for UniPak transmitter with an XLRF-type input connector, for Lo-Z microphones with XLRM-type output terminations.

### Receiver Accessories

<b>AT8628</b>	Mounting plate adapter allows rack-mounting two ATW-R12 receivers side-by-side in a single 19" rack space.
<b>ATW-A10</b>	Pair of ground-plane antennas with 5/8"-27 thread for mounting to mic stands, etc. Takes RF cables with PL259 connectors, not included.
<b>ATW-D12a</b>	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.
<b>ATW-RA1</b>	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

<b>ATW-VP10</b>	Vinyl pouch with belt clip to hold UniPak transmitter.
<b>AT8114</b>	Foam windscreen for handheld transmitter.
<b>AT8141</b>	Water-resistant pouch for UniPak transmitter.
<b>AT8431</b>	Stand clamp for handheld transmitter, 5/8"-27 threads.

### Interchangeable Elements (for use with ATW-T37C transmitter)

<b>AT853C-ELE</b>	Cardioid element.
<b>AT853H-ELE</b>	Hypercardioid element (included).
<b>AT853O-ELE</b>	Omnidirectional element.
<b>AT853SC-ELE</b>	Subcardioid element.

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