

1400 Series UHF True Diversity Wireless Systems

- True Diversity reception with two independent RF sections for greatest reliability.
- Interference-resistant UHF band operation.
- Convenient detachable front-mount antennas.
- Rugged metal receiver housing.
- Balanced and unbalanced audio output jacks.
- Ground-lift switch and adjustable squelch.
- Two receivers can be mounted side-by-side in a single 19" rack space.
- Power-save switches on transmitters.
- ATW-T51 UniPak[™] transmitter includes Super Hi-Z input that provides optimum load for guitar pickups.
- ATW-T52 handheld microphone/transmitter features Hi-ENERGY® dynamic element.



ATW-1451 UniPak[™] Transmitter System includes:

ATW-R14 Receiver and ATW-T51 Transmitter (Select a Wireless Essentials™ microphone or cable to complete the system)

ATW-1452 Handheld Dynamic Microphone System includes:

ATW-R14 Receiver and ATW-T52 Handheld Microphone/Transmitter



Specifications¹

Overall System	1	
Operating Frequ	ency	UHF band, 732 MHz to 746 MHz
Frequency Stability		± 0.005%
Modulation Mode		FM
Maximum Devia	tion	±15 kHz
Operating Range		200' minimum
Operating Temperature Range		40° F (4° C) to 110° F (43° C)
Frequency Response		100 Hz to 15 kHz
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ATW-R14 Rece		
Receiving System	m	Dual independent receivers, automatic-switching diversity reception
Image Rejection		45 dB minimum
Signal-to-noise Ratio		95 dB at 10 kHz deviation (IEC-weighted), maximum modulation 15 kHz
Total Harmonic Distortion		≤1% (10 kHz deviation at 1 kHz)
Sensitivity		≤20 µV for 60 dB S/N (IEC-weighted)
Audio Output	Unbalanced	280 mV (at 1 kHz, ±10 kHz deviation, 10k ohm load)
	Balanced	160 mV (at 1 kHz, ±10 kHz deviation, 10k ohm load)
Output Connect		
	Unbalanced	1/4" phone jack
	Balanced	XLRM-type
Power Supply		12-18V DC, 500 mA
Dimensions		8.27" (210.0 mm) W x 1.93" (49.0 mm) H x 9.88" (251.0 mm) D
Net Weight		2.9 lbs. (1.3 kg)
Accessories Included		Two antennas, rack-mount adapters, AD1205A AC adapter

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	50 mA typical
Battery Life	Approximately 8 hours in High position, approximately 10 hours in Low position

2.56" (65.0 mm) W x 4.33"

3.2 oz (90 grams)

(110.0 mm) H x 1.00" (25.4 mm) D

ATW-T52 Handheld Transmitter

Net Weight (without battery)

Dimensions

ATW-T51 UniPak™ Transmitter

RF Power Output	50 mW Max
Spurious Emissions	Under federal regulations
Dynamic Range	≥90 dB
Microphone Element	Dynamic unidirectional
Battery (not included)	9V (NEDA type 1604) alkaline
Current Consumption	50 mA typical
Battery Life	Approximately 8 hours in High position, approximately 10 hours in Low position
Dimensions	9.53" (242.0 mm) long, 2.13" (54.0 mm) diameter
Net Weight (without battery)	12.3 oz (350 grams)
Accessory Included	AT8431 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.

Optional System Accessories

Wireless Essentials™ Microphones and Cables

All Wireless Essentials are terminated for use with the ATW-T51 and other $UniPak^{m}$ transmitters.

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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/s"-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 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-R14 receivers side-by-side in a single 19" rack space.
ATW-A20	Pair of UHF ground-plane antennas with 5/8 -27 thread for mounting to microphone stands, etc. Takes RF cables with BNC connectors, not included.
ATW-D70	UHF (728-750 MHz) active unity-gain antenna distribution system provides two "1-in, 4-out" RF channels; connects a pair of antennas to as many as four diversity receivers. Includes four DC interconnect cables to power up to four ATW-R14 receivers, eight RF output cables and two rackmount adapters. Mounts in a single (1U) 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.

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

