





Wireless Systems



Wireless Systems

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/ Interchangeable Microphone Capsules (IMC)



/ Handheld Transmitter Body ATW-T5202



/ Handheld Transmitter Body ATW-T3202



/ Cardioid Condenser ATW-C5400



/ Cardioid Condenser ATW-C3300



/ Hypercardioid Dynamic ATW-C6100



/ Cardioid Dynamic ATW-C4100



/ Cardioid Condenser ATW-C710



/ Cardioid Dynamic ATW-C510



Interchangeable Microphone Capsules compatible with last generation 3000 and 5000 Series wireless handheld transmitters

All interchangeable microphone capsules can be used with **ATW-T5202** and **ATW-T3202** handheld transmitters. Its industry-standard thread allows use with other compatible handheld transmitters.

Condenser microphones capsules **ATW-C5400** and **ATW-C3300** an heritage from the world acclaimed Studio microphones **AT4050** and **AT4033**.





Same sound characteristics as the renowned **AT4050** studio microphone offering extreme clarity and realism.

/ Interchangeable Cardioid Condenser Microphone Capsule ATW-C5400





Same element as the classic **AT4033a** studio microphone offering extreme clarity and realism.

/ Interchangeable Cardioid Condenser Microphone Capsule ATW-C3300

Clean, Crisp and Accurate

Transparent uppers/mids and rich low-end qualities are combined with advanced acoustic engineering for extensive performance abilities and a clean, crisp and accurate sound reproduction, even at high SPLs.

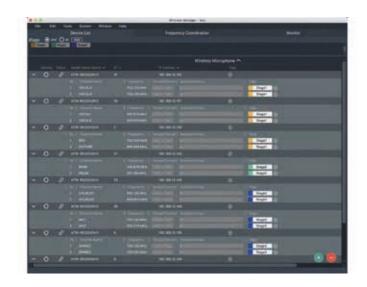
Warm and Flattering Sound

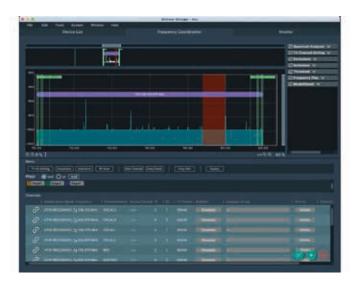
The AT4033a produces a warm and flattering sound that brings the versatility of a dynamic microphone, as well as the transparency and detail of a high-end capacitor model for a vintage effect.



Everything under control

The Wireless Manager software supports the setup, control, and monitoring of compatible Audio-Technica wireless devices. The software allows you to determine device settings, make and coordinate frequency plans while offline, and configure import settings whilst connected to wireless systems via network connection. When linked to a compatible receiver, you can scan the RF environment, monitor connected devices, and view the system log.





WIRELESS SYSTEMS / FREQUENCY

Audio-Technica - Frequency bands versus wireless series

714410 100111					-1			,								-																																		
Frequency	470	478	707	400	494	700	510	518	526	534	542	550	228	566	574	282	280	288	909	614	770	630	000	040	100	700	678	686	694	707	710	718	776	73.4	740	74/	75.0	76.6	774	787	790	791	2	821	823		832	967	863	2400
from > to	478	486	400	434	205	210	518	526	534	542	220	929	999	574	582	230	238	900	614	77.9	030	638	0+0	660	200	070	686	694	707	710	718	7.76	734	7.47	747	7.00	997	007	787	790	791	821	. 40	823	832		862	863	865	2483
TV Channel	21	22	2 2	3	24 2	25	26	27	28	29	30	31	32	33	34	35	36	37	38 3	39 4	10 4	41 4:	2 4	3 4	4 4	5 4	6 47	48	3 49	50	51	52	53	3 5	4 5	5 5	6 5	7 5	3 59	60) X	LT	E	χ	Duple gap	ex	LTE	Х	70	ISM
5000-Series Receiver	DG1 470.125 to 699.875 MHz							GH1 700.125 to 819.875 MHz																																										
5000-Series	DE1 470.125 to 590.000 MHz											GH1 700.125 to 819.875 MHz																																						
Transmitter		EG1 580.000 to 699.875 MHz																																																
3000-Series		47(0.12		DE2 529.		i Mi	Нz		530).00		E1 589.9	175 1	ИHz		59	0.0		F1 649.	975	MHz		650	.00	FG D - 69		'5 N	1Hz							Ī	794.1	00 -	805.		GH2 MHz				821.10 863.10	0 - 8		10 M		
3000-Series Network receiver		47(0.12		DE2 529.		5 MH	Нz		530).00		E 1 589.9	75 1	ИHz		59	0.01		F1 649.	975	MHz		650	.00	FG 0 - 69		'5 N	1Hz																					
2000-Series					I-ba 487. 506. MF	125 .500						_						-		- ba 06.5 .000	00	Нz		-	65	- bar 56.12 .500	5																				8 - 8	- ba 154.9 164. MF	900 900	
AT-One			-		DE 82.6 1.37	25																																							824.4 863.3	00 -		501		
System 10 System 10 Pro																																																		2.4 GHz

Note that some frequency bands might not be available in country or region in which you live, or could come with a limited tuning bandwidth/transmitting power due to local regulations.

/ Frequency-Agile True Diversity UHF

5000 Series

Designed for use on professional tours, in stadiums, concert halls and festivals with incredible audio quality and proven, critically acclaimed performance for artists, broadcasters and presenters.

/ Frequency-Agile True Diversity UHF 3000 Series



3000 Series systems have an operating range of 100m and are available in several frequency bands that provide a wide tuning range.

/ Frequency-Agile True Diversity UHF

2000 Series

Easy to use, flexible to setup, medium - large channel counts, rock solid RF.

/ Antenna Switching Diversity UHF Wireless Systems

AT-One



Easy to use, for small channel counts, medium operating range, case and rackmount, fairly easy setup.

/ Rack-Mount Digital Wireless Systems

System 10 Pro

Easy to use, easy to setup remote receiver unit allows professional fixed installations, license-free, no frequency coordination needed.

/ Rack-Mount Digital Wireless Systems

System 10



Easy to use, easy to setup, license-free, no frequency coordination needed. Short range allows usage of another System 10 setup in an adjacent room.

		Pe	rforman	ice			Live S	Sound			Install		Broa	Broadcast & Production				
	Operating range	Indoor range	Outdoor range	Rec. Channel Count	Analog / Digital	Hobby music	Prof. music	Rental company	Theater	School / house of worship /	Corporate / hotel conference room	Large venues / Stadium	Broadcast studio	ENG	Live sport	Film & Location sound		
5000 Series	100 m	••••	••••	> 40	А	0	000	000	000	0	000	000	000		000	00		
3000 Series	100 m	••••	••••	40	А	00	000	000	000	00	000	000	0		000	00		
System 10 Pro	60 m	•••	•	10	D	00	00	0		00	000							
System10	30 m	••	•	8	D	000	00	0		000	0			00		0		
2000 Series	100 m	••••	••••	30	А	00	0	00	00	000	000	0						
AT-One	60 m	•••	•••	4	А	000	0	0	0	000	000							



5000 Series

Frequency-Agile True Diversity UHF Wireless Systems

Comprehensive tuning bandwith

For maximum versatility in ever-congested RF environment, the dual-channel receiver provides a tuning bandwidth of 230 MHz or 120 MHz (depending on frequency band). Both transmitters (ATW-T5202 and ATW-T5201) feature a tuning bandwidth of 120 MHz and are available in different frequency ranges to provide complete coverage of the receiver's bandwidth. This allows the user to set up systems with high channel counts, whilst offering the flexibility to tune to open spectrum wherever you travel.

Dual compander for incredible audio quality

Designed for use on professional tours, in stadiums, concert halls, festivals and other demanding audio environments, the Audio-Technica 5000 Series offers the highest-quality wireless live sound, with dual-compander circuitry that processes high and low frequencies separately for unparalleled frequency response and dynamic range.

Designed for professionals

The body-pack transmitter provides highest possible wearing comfort due to its small size - $64 \text{ mm} \times 70 \text{ mm} \times 17 \text{ mm}$, robust and ergonomic full metal body with concealed soft-touch controls, rugged cH-style connector for secure connection - just to name a few features that meet the needs of professional users.

High channel count

The antenna cascade output connects up to 8 receivers, allowing a single pair of antennas to feed 16 channels of wireless.









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back

/ Dante® Receiver ATW-R5220DAN



back



/ Receiver ATW-R5220

5000 Series

Operating Frequencies	Receiver: Band DG1: 470.125 to 699.875 MHz
	Band GH1: 700.125 to 819.875 MHz
	Transmitter: Band DE1: 470.125 to 590.000 MHz
	Band EG1: 580.000 to 699.875 MHz
	Band GH1: 700.125 to 819.875 MHz
Minimum Frequency Step	25 kHz
Modulation Mode	FM
Operating Range	100 m

ATW-R5220/ATW-R5220DAN

Receiving System	True diversity
Image Rejection	80 dB nominal
Sensitivity	18 dBuV at 60 dBA S/N ratio (50 ohms termination)
Maximum Output Level	XLR, balanced, +18 dBV
Headphone Output	6.3 mm (1/4") TRS stereo 180 mW, typical
Antenna Input	BNC-type, 50 ohms 12 V DC, 150 mA (combined)

ATW-T5201

Frequency Response	23 to 16,300 Hz
Dynamic Range	Mic input: 120 dB or higher (A-weighted), typical Inst input: 107 dB or higher (A-weighted), typical
Input Connection	cH-style screw-down 4-pin connector
Spurious Emissions	Following federal and national regulations
Maximum Deviation	±40 kHz (THD:10%)
Total Harmonic Distor	tion 1.0 % or less (at 1 kHz, ±17.5 kHz deviation)
RF Power Output	High: 50 mW, Mid: 10 mW, Low: 2 mW (switchable), at 50 ohms
Battery Life	High: 7 hours, Mid: 9 hours, Low: 10.5 hours (alkaline)
Dimensions	64 mm \times 70 mm \times 17 mm (W \times D \times H)
Net Weight	Approx. 92 g

ATW-T5202

33 to 16,300 Hz Depending on attached microphone element
116 dB or higher (A-weighted), typical
Interchangeable industry standard thread
Following federal and national regulations
±40 kHz (THD:10%)
tion 1.0 % or less (at 1 kHz, ±17.5 kHz deviation)
High: 50 mW, Mid: 10 mW, Low: 2 mW (switchable), at 50 ohms
High: 6.5 hours, Mid: 8 hours, Low: 9.5 hours (alkaline)
193 mm long, 37 mm maximum diameter
200 g



/ Interchangeable Microphone Capsules (IMC) (see page 4)



/ Handheld Transmitter Body ATW-T5202



3000 Series

Frequency-Agile True Diversity UHF Wireless Systems

60 MHz tuning bandwidth

The 3000 Series systems are available in several different frequency bands, and each features a wide 60 MHz tuning range. This allows the user to set up systems with high channel counts, whilst offering the flexibility to tune to open spectrum wherever you travel. Frequencies can be easily scanned and selected on the receiver and then synced with the transmitter via IR sync functionality.

Backup frequency button

Unique multifunction button on the handheld and body-pack transmitters can be used to switch to a backup frequency (on both transmitter and receiver) should interference be encountered.



Network



Charging



Interchangeable Capsules



cH-Connector





front

/ Receiver ATW-R3210



/ Network-Enabled Receiver ATW-R3210N







/ Handheld Transmitter Body ATW-T3202





One power supply feeds up to five chargers

Up to five docks can be connected to one power supply (AD-SA1230XA - available separately) to charge a maximum of ten transmitters (per link one AT8687 is required - available separately).

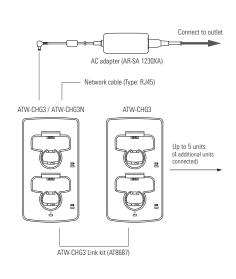
Monitoring and controlling

The ATW-CHG3N networked version of the charging dock allows users to monitor the charging status of all transmitters in the linked docks (per link one AT8687 is required - available separately). Only the first dock must be an ATW-CHG3N, all linked docks (up to four) must be ATW-CHG3.

Protection against misuse

The dock automatically shuts off if alkaline or damaged batteries are detected in the transmitters.





3000 SERIES / SYSTEM CONFIGURATIONS / WIRELESS SYSTEMS





/ Power Supply Unit for ATW-CHG3 AD-SA1230XA

ATW-CHG3 Charging Station

Charging Time	Approx. 6.5 hours (1,900 mAh rechargeable battery)*
Power Supply	DC12V 3.0A
Power Consumption	4.9W (when 2 transmitters are charging)
27.4W ((CHG3×5) (5 units are connected and 10 transmitters are charging)
Weight	400 g
Accessories	Separately available - AC adapter (AD-SA1230XA),
	ATW-CHG3 Link kit (AT8687)



/ 3000 Series -Body-pack System

ATW-3211



/ 3000 Series -Body-pack System with AT831cH ATW-3211/831



/ 3000 Series -Body-pack System with BP892xcH ATW-3211/892x



/ 3000 Series -Body-pack System with BP892xcH-TH ATW-3211/892x-TH



/ 3000 Series -Body-pack System with AT899cH ATW-3211/899



/ 3000 Series -Handheld System with ATW-C510 ATW-3212/C510



/ 3000 Series -Handheld System with ATW-C710 ATW-3212/C710

Operating Frequencies	Band DE2: 470.125 to 529.975 MHz
	Band EE1: 530.000 to 589.975 MH:
	Band EF1: 590.000 to 649.975 MH:
	Band FG1: 650.000 to 699.875 MHz
	Band GH2: 794.100 to 805.900 MHz
	Band HH2: 821.100 to 831.900 MHz
	and 863.100 to 864.900 MH;
Minimum Frequency Step	25 kH:
Modulation Mode	FM
Operating Range	100 m

ATW-R3210/ATW-R3210N

Receiving System	True diversity
Image Rejection	60 dB nominal
Sensitivity	20 dBuV at 60 dBA S/N ratio (50 ohms termination)
Maximum Output Level	XLR, balanced, +14 dBV
	6.3 mm (1/4), unbalanced: +8 dBV (ATW-R3210 only)
Antenna Input	BNC-type, 50 ohms 12 V DC, 160 mA (combined)

ATW-T3201

AT W-13ZUT	
Frequency Response	31 to 15,500 Hz
Dynamic Range	Mic input: 115 dB or higher (A-weighted), typical Inst input: 112 dB or higher (A-weighted), typical
Input Connection	cH-style screw-down 4-pin connector
Spurious Emissions	Following federal and national regulations
Maximum Deviation	±38 kHz (THD:10%)
Total Harmonic Distortion	1.0 % or less (at 1 kHz, ±17.5 kHz deviation)
RF Power Output	High: 30 mW, Low: 10 mW (switchable), at 50 ohms
Battery Life	High: 8 hours, Low: 9 hours (alkaline) High: 9 hours, Low: 9.5 hours (Ni-MH 1900mAh)
Dimensions	64 mm × 82 mm × 23 mm (W × D × H)
Net Weight	Δnnrox 102 a

ATW-T3202

Frequency Response	25 to 16,700 Hz Depending on attached microphone element
Dynamic Range	115 dB or higher (A-weighted), typical
Microphone Element	Interchangeable industry standard thread
Spurious Emissions	Following federal and national regulations
Maximum Deviation	±36 kHz (THD:10%)
Total Harmonic Distortion	1.0 % or less (at 1 kHz, ±17.5 kHz deviation)
RF Power Output	High: 30 mW, Low: 10 mW (switchable), at 50 ohms
Battery Life	High: 8 hours, Low: 9 hours (alkaline)
	High: 9 hours, Low: 9.5 hours (Ni-MH 1900mAh)
Dimensions	193 mm long, 37 mm maximum diameter
Net Weight	200 g



Easy to use

Easy setup, automatic scanning and other advanced wireless features - affordable as never before. Though the 2000b system is designed for professional use, the user does not need special training to operate it. Once unboxed, it's ready to roll! Standard automatic frequency scanning finds and sets the best available channel at the touch of a button. Using multiple wireless systems simultaneously, as any of its 10 preset channels can be used together.

12V antenna power

The ATW-R2100b receiver delivers a bias voltage of 12V / 60mA from each BNC antenna input, enabling the use of antenna boosters or other active components.





Charging contacts





back

/ Receiver ATW-R2100b

front

dio-technica



Locking 4-pin microphone connector for use with Audio-Technica cW-style wireless body-pack transmitters.



/ Two-Bay Recharging Station ATW-CHG2

/ Handheld Transmitter ATW-T220a

/ Body-pack Transmitter

ATW-T210a

Operating Frequencies	l Band: 487.125 to 506.500 MHz
	U Band: 606.500 to 631.000 MHz
	D Band: 656.125 to 678.500 MHz
	F Band: 854.900 to 864.900 MHz
Max. Number of Channels	10
Modulation Mode	FM
Operating Range	100 m



/ 2000 Series - Body-pack System





/ 2000 Series - Body-pack System with AT-GcW **ATW-2110b/G**



/ 2000 Series - Body-pack System with PRO8HEcW ATW-2110b/H



/ 2000 Series - Body-pack System with ATM75cW ATW-2110b/HC1



/ 2000 Series - Body-pack System with ATM73cW ATW-2110b/HC2



/ 2000 Series - Body-pack System with AT829cW ATW-2110b/P



/ 2000 Series - Body-pack System with AT899cW ATW-2110b/P1



/ 2000 Series - Body-pack System with AT831cW ATW-2110b/P2



/ 2000 Series - Body-pack System with MT838cW $\bf ATW\text{-}2110b/P3$



/ 2000 Series - Handheld System ATW-2120b

ATW-R2100b

2000 Series

Receiving System	True diversity
Image Rejection	55 dB nominal, 50 dB minimum
Sensitivity	20dBµV (S/N 60dB at 5 kHz deviation, IEC-weighted)
Maximum Output Level	XLR, balanced, +14 dBV - 6.3 mm (1/4), unbalanced: +8 dBV
Antenna Input	BNC-type, 50 ohms 12 V DC, 60 mA (each)

ATW-T210a

Frequency Response	100 to 15,500 Hz
Dynamic Range	110 dB or higher (A-weighted), typical
Input Connection	cH-style screw-down 4-pin connector
Spurious Emissions	Following federal and national regulations
Maximum Deviation	±40 kHz (THD:10%)
Total Harmonic Distortion	1.0 % or less (at 1 kHz, ±17.5 kHz deviation)
RF Power Output	High: 30 mW, Low: 10 mW (switchable)
Battery Life	High: 7 hours, Low: 9 hours (alkaline)
Dimensions	66 mm \times 92 mm \times 23 mm (W \times D \times H)
Net Weight	Approx. 81 g

ATW-T220a

Frequency Response	100 to 15,000 Hz
Dynamic Range	110 dB or higher (A-weighted), typical
Microphone Element	Cardioid, dynamic
Spurious Emissions	Following federal and national regulations
Maximum Deviation	±40 kHz (THD:10%)
Total Harmonic Distortion	1.0 % or less (at 1 kHz, ±20 kHz deviation)
RF Power Output	High: 30 mW, Low: 10 mW (switchable)
Battery Life	High: 7 hours, Low: 9 hours (alkaline)
Dimensions	232 mm long, 48 mm maximum diameter
Net Weight	252 g



Easy to use

AT-One is designed with simplicity and ease-of-use in mind. Equipped with a practical carrying case, rack-mount kit and detachable antenna, AT-One is the perfect balance of price and performance, ideal for those looking for accurate, reliable performance at an entry-level price.

The AT-One's frequency plan is divided into two groups with four available channels in each group. All four channels in a group can be used simultaneously.

Cardioid condenser capsule – induction loop ready

The condenser microphone capsule in the ATW-T1 handheld transmitter prevents inductive feedback from nearby hearing loops.

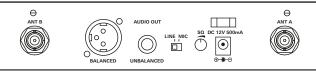
12V antenna power

The ATW-R1 receiver delivers a bias voltage of 12V / 100mA from each BNC antenna input, enabling the use of antenna boosters or other active components.



cW-Connector





front





/ Receiver ATW-R1



/ Handheld Transmitter ATW-T3

AT-One

Operating Frequencies	Band DE3: 482.625 to 511.375 MHz
	Band HH2: 824.400 to 830.850 MHz
	& 863.300 to 864.700 MHz
Max. Number of Channels	2 x 4
Modulation Mode	FM
Operating Range	60 m

ATW-R1

Receiving System	Antenna switching diversity
Image Rejection	55 dB minimum
Sensitivity	10 dBμV (S/N 60 dB @ 20 kHz deviation)
Maximum Output Level	XLR, balanced, +4 dBV - 6.3 mm (1/4), unbalanced: -2 dBV
Antenna Input	BNC-type, 50 ohms 12 V DC, 100 mA (each)

Receiving System	Antenna switching diversity
Image Rejection	55 dB minimum
Sensitivity	10 dBμV (S/N 60 dB @ 20 kHz deviation)
Maximum Output Level	XLR, balanced, +4 dBV - 6.3 mm (1/4), unbalanced: -2 dBV
Antenna Input	BNC-type, 50 ohms 12 V DC, 100 mA (each)
•	

ATW-T1

Frequency Response	60 to 16,000 Hz
Dynamic Range	103 dB or higher (A-weighted), typical
Input Connection	cW-style lock-down 4-pin connector
Spurious Emissions	Following federal and national regulations
Maximum Deviation	±40 kHz (THD:10%)
Total Harmonic Distortion	1.0 % or less (at 1 kHz, —20 kHz deviation)
RF Power Output	10 mW
Battery Life	10 hours (alkaline)
Dimensions	66 mm \times 98 mm \times 22 mm (W \times D \times H)
Net Weight	Approx. 71 g

ΔTW-T3

AIW-I3	
Frequency Response	60 to 16,000 Hz
Dynamic Range	108 dB or higher (A-weighted), typical
Microphone Element	Cardioid, condenser
Spurious Emissions	Following federal and national regulations
Maximum Deviation	±40 kHz (THD:10%)
Total Harmonic Distortion	1.0 % or less (at 1 kHz, -20 kHz deviation)
RF Power Output	10 mW
Battery Life	10 hours (alkaline)
Dimensions	268 mm long, 52 mm maximum diameter
Net Weight	277 g



/ AT-One -Body-pack System **ATW-11**



/ AT-One -Body-pack System with AT-GcW **ATW-11/G**



/ AT-One -Body-pack System with PRO9cW ATW-11/H



/ AT-One -Body-pack System with ATR35cW **ATW-11/P**



/ AT-One -Handheld System **ATW-13**

System 10

Digital Wireless Systems

Easy to use

System 10 is a digital high-fidelity wireless system designed to provide 24-bit operation, easy setup and clear, natural sound quality. Operating in the 2.4 GHz range, far from TV and DTV interference, System 10 offers extremely easy operation and instantaneous channel selection. Up to eight channels may be used together without any frequency coordination problems or group selection issues. System 10 receivers and transmitters offer an easy-to-read digital ID display.

Three levels of diversity assurance

System 10 provides three levels of diversity: frequency, time and space. Frequency diversity transmits the signal on two frequencies simultaneously for better protection against frequency interference. Time diversity sends the signal twice to maximise signal integrity. Finally, space diversity uses two antennas on each transmitter and receiver to optimize immunity against multipath interference.





Frequency

cW-Connector



A compact and expandable system

With an RJ12 cable supplied with each system, it is possible to connect up to 5 frames (10 receivers). While many systems can operate without being connected, this is not recommended. Indeed, linking the systems to create a more stable environment in which receivers are coordinated for the reception, transmission and frequency allocation avoids signal loss and optimizes the simultaneous use of the 10 channels.

SYSTEM 10 PRO / SYSTEM CONFIGURATIONS / DIGITAL WIRELESS SYSTEMS



/ Single Channel Receiver ATW-R1310



/ Dual Channel Receiver

front

ATW-R1320



Locking 4-pin microphone connector for use with Audio-Technica cW-style wireless body-pack transmitters.



/ Body-Pack Transmitter ATW-T1001

(specifications, see page 20)



/ Boundary Microphone Transmitter ATW-T1006



/ Microphone Desk Stand Transmitter ATW-T1007



ATW-T1002

(specifications, see page 20)





/ System 10 PRO -Rack-Mount Digital Wireless System ATW-1301



/ System 10 PRO -Rack-Mount Digital Wireless System ATW-1311



/ System 10 PRO -Rack-Mount Digital Wireless System ATW-1312



/ System 10 PRO -Rack-Mount Digital Wireless System ATW-1302



/ System 10 PRO -Rack-Mount Digital Wireless System ATW-1322

System 10 PRO

Operating Frequencies	2.4 GHz ISM Band
Max. Number of Channels	10
Audio Sampling	24 bit / 48 kHz
Operating Range	60 m

ATW-R1310 & ATW-R1320

Receiving System	Diversity (frequency / time / space)
Maximum Output Level	XLR, balanced, +6 dBV - 6.3 mm (1/4), unbalanced: 0 dBV

ATW-T1006

Maximum Input Sound Level	139 dB SPL
RF Power Output	10 mW
Spurious Emissions	Following federal and national regulations
Internal Battery	3.7 V Rechargeable Li-ion Battery
Battery Rating	5.5 Wh; 1,460 mAh
Battery Life	9 hours (Battery charging time: 4 hours 30 minutes)
Dimensions	96.1 mm W × 38.0 mm H × 122.8 mm D
Net Weight	408 grams

ATW-T1007

RF Power Output	10 mW
Spurious Emissions	Following federal and national regulations
Phantom Power	12V DC
Internal Battery	3.7 V Rechargeable Li-ion Battery
Battery Rating	5.5 Wh; 1,460 mAh
Battery Life	9 hours (Battery charging time: 4 hours 30 minutes)
Dimensions	96.1 mm W \times 44.2 mm H \times 122.8 mm D
Net Weight	392 grams

ATW-T1001 & ATW-T1002 (specifications, see page 20)



Automatic frequency selection

The System 10 automatically changes its frequency. Unlike other systems on the market that attach to 2 or 4 frequency, the System 10 will constantly "monitor" the frequencies and switch if necessary.

Thus, there are always a good 2 frequencies in the system, and the user does not need to manually intervene.







/ System 10 -Body-pack System **ATW-1101**



/ System 10 -Handheld System ATW-1102

System 10 - Stack-Mount

Operating Frequencies	2.4 GHz ISM Band
Max. Number of Channels	8
Audio Sampling	24 bit / 48 kHz
Operating Range	30 m

ATW-R1100

Receiving System	Diversity (frequency / time / space)
Maximum Output Level	XLR, balanced, +6 dBV - 6.3 mm (1/4), unbalanced: 0 dBV

ATW-T1001

Frequency Response	20 to 20,000 Hz
Dynamic Range	109 dB or higher (A-weighted), typical
Input Connection	cW-style lock-down 4-pin connector
Spurious Emissions	Following federal and national regulations
Total Harmonic Distortion	0.05 % or less
RF Power Output	10 mW
Battery Life	7 hours (alkaline)
Dimensions	72 mm \times 107 mm \times 25 mm (W \times D \times H)
Net Weight	Approx. 100 g

ATW-T1002

Frequency Response	20 to 20,000 Hz
Dynamic Range	109 dB or higher (A-weighted), typical
Microphone Element	Unidirectionnal, dynamic
Spurious Emissions	Following federal and national regulations
Total Harmonic Distortion	0.05 % or less
RF Power Output	10 mW
Battery Life	7 hours (alkaline)
Dimensions	255 mm long, 50 mm maximum diameter
Net Weight	280 g



System 10 Camera-Mount

Portable Camera-Mount Digital Wireless Systems

Small and compact design

With its compact and portable design, the System 10 Digital Wireless Camera System is ideal for video production, reporting and all intermediate mobile applications, the receiver offers several mounting options to suit a wide variety of cameras and recording devices. Each System 10 camera mount wireless system includes a camera mounting spigot in addition to the receiver and the transmitter.



System 10 -Camera-mount Body-pack System **ATW-1701**



/ System 10 -Camera-mount Body-pack System with AT8350

ATW-1701x3M



/ System 10 PRO -Camera-mount Body-pack System with AT829cW

ATW-1701/P1



/ System 10 -Camera-mount Handheld System ATW-1702



/ System 10 -Camera-mount Handheld System with AT8350 ATW-1702x3M



System 10 - Camera-Mount

Operating Frequencies	2.4 GHz ISM Band
Max. Number of Channels	8
Audio Sampling	24 bit / 48 kHz
Operating Range	30 m

ATW-R1700

Receiving System	Diversity (frequency / time / space)
Maximum Output Level	3.5 mm, TRS balanced, +6 dBV 3.5 mm, TRS unbalanced: 0 dBV
Battery Type	Internal Battery: 3.7V rechargeable Li-ion battery
Battery Life	12 hours (Battery charging time: 4 hours 30 minutes)
Dimensions	56 mm × 91 mm × 28 mm (W × D × H)
Weight	Approx 105 g

ATW-T1001 & ATW-T1002 (specifications, see page 20)

Co	nnected Accesso	iry	ATW-A49	ATW-A410P	ATW-B80WB	ATW-49CB	ATW-49SP	ATW-DA49a
Cı	Current Requirement		0 mA	60mA	60mA	30mA	30mA	0 mA
Used wirele	ss system	Current per antenna input @12V						
AT-One	ATW-R1	100 mA	+	1 pair	1 pair	2 pair	1 pair (*)	+
2000 Series	ATW-R2100	60 mA	+	1 pair	1 pair	2 pair	1 pair (*)	+
3000 Series	ATW-R3210	80 mA	+	1 pair	1 pair	2 pair	1 pair (*)	+
5000 Series	ATW-R5220	75 mA	+	1 pair	1 pair	2 pair	1 pair (*)	+
System 10	All receiver	-	-	-	-	-	-	-
Distribution amplifier	ATW-DA49A	250 mA	+	2 pair (**)	4 pair	2 pair (***)	1 pair (*)	See application 6

(*) Although possible to power more than 1 pair it is recommended to use an ATW-DA49a instead.

(**) You would require to use a pair of ATW-49CB to connect 2 pairs of antennas.

(***) 2 pairs would allow to connect 4 pairs of passive antennas (A49) - no active antennas.

Please use the above table to determine the maximum numbers of active components in the antenna cable run.

Example: AT-One (100 mA per antenna cable run) could drive 1 pair of ATW-880WB boosters and 1 pair of ATW-49SP splitter. (60 mA + 30 mA = 90 mA).

Example: ATW-DA49a (250 mA per antenna cable run) could drive 2 pairs of ATW-A49 (0 mA), 2 pairs of ATW-880WB boosters (2x 60mA per antenna run) and 1 pair of ATW-49CB (30 mA): Total: 2x 150 mA.

ATW-DA49a

UHF Antenna Distribution Systems



Durability

The ATW-DA49a provides a high OIP3 (+ 32 dBm) for maximum protection against intermodulation.

Specifications	ATW-DA49a
Antenna Power (optional)	12V DC, 250 mA (combined)
Current Consumption	200 mA \pm 50 mA at 12 V DC
Gain	+1.0dB typical (within specified bandwidth)
Input	2 x 1 inputs
OIP3	+32dBm typical (within specified bandwidth)
Output	2 x 4 outputs + 1 cascade output - BNC Female
Operating Bandwidth	470-990 MHz
Power Supply	100-240V AC (50/60 Hz) to 12V DC 1A (centre positive) switched mode external power supply

/ Active Antenna Combiner Kit (pair) ATW-49CB



/ Active Antenna Splitter Kit (pair) ATW-49SP



Specification	as ATW-49SP	ATW-49CB
Description	2-Way Active Antenna Splitter	2-Input Active Combiner
Bandwidth	440 MHz to 900 MHz	440 MHz to 900 MHz
VSWR	< 1.7:1 (within specified bandwidth)	< 1.7:1 (within specified bandwidth)
Gain	0 dB typical (within specified bandwidth)	0 dB typical (within specified bandwidth)
Impedance	50 ohms, typical (within specified bandwidth)	50 ohms, typical (within specified bandwidth)
Termination '	Type 3-BNC Female	3-BNC Female
Weight	51 g	51 g
Dimensions	61 mm W x 47 mm L x 23 mm H	61 mm W x 47 mm L x 23 mm H
DC Input	5-14V DC	5-14V DC
Current	30 mA @ 12V DC	30 mA @ 12V DC
Pass-through	h Current 100 mA	120 mA (maximum to both inputs combined)



/ UHF Wide-Band Directional LPDA Antennas (pair) $\bf ATW-A49$

Specifications	ATW-A49
Antenna Type	Log Periodic Dipole Array (LPDA)
Operating Bandwidth	440 – 900 MHz
Gain	6 dB typical*
Impedance	50 ohms typical*
VSWR	≤ 1.7:1*
Polar Pattern	Elliptical, 90° acceptance, typical
Polarization	Vertical (when mounted vertically)
Number of Elements	9
Maximum Power Input	Not specified (intended as receive antenna only)
Termination Type	Fixed right-angle BNC female Connector is positioned to minimize cable strain
Weight	326 g each
Dimensions	268 mm L x 285 mm H x 25 mm D
Material	Copper-clad epoxy fiberglass



/ UHF Powered Wideband Antenna (single) ATW-A410P

Specifications	ATW-A410P
Gain	-10 dB / 0 dB / +6 dB / +12 dB
OIP3	> 30 dBm typical (within specified bandwidth)
Termination Type	BNC-J
Operating Bandwidth	470-990 MHz
Operating Temperature Range	-10°C to 50°C
Dimensions	175 x 175 x 50 mm (without bracket)
Weight	390 g (without bracket)
Accessories	Mounting bracket, screws
Impedance	50 ohms typical (within specified bandwidth)
Power Consumption	60mA



/ In-Line RF booster 470-990MHz 6dB / 12dB (pair) ${\bf ATW\text{-}B80WB}$

Specifications	ATW-B80WB
Connections	BNC-J (IN), BNC-J (OUT)
Power Supply	DC 12 V
Frequency Range	470 - 990 MHz
Impedance	50 ohms
Power Consumption	60mA
Gain High	+12 dB Red, +6 dB Green
Connections	BNC-J (IN), BNC-J (OUT)
Power Supply	DC 12 V







/ 8m RF Antenna Cable **AC25**



/ 15m RF Antenna Cable **AC50**

WIRELESS SYSTEMS / ACCESSORIES



For ATW-DA49a



/ Receiver Unit Wall-Mount Holder AT8690

For System 10 PRO, ATW-RU13



/ Universal Joining Plate for AT 9.5" devices AT8631

For ATW-R3210, ATW-R3210N, ATW-R2100b, ATW-R1300, ATW-R1310, ATW-R1320 and other AT 9.5" devices





/ Camera Shoe Dual Mount AT8691

For System 10, ATW-R1700



/ Dual Rack-Mount Kit AT8677

For AT-One, ATW-R1



/ 3.5 mm - 3.5 mm Cable (ATW-R1700)

AT8349

/ Rack-Mount Tray



/ Blanking Plate AT8675

For AT8674



		cH-Version	cW-Version
	/ Subminiature Omnidirectional Condenser Headworn Microphone	BP892xcH & BP892xcH-TH	BP892xcW & BP892xcW-TH
	/ Subminiature Omnidirectional Condenser Headworn Microphone	BP893xcH & BP893xcH-TH	BP893xcW & BP893xcW-TH
4	/ Subminiature Cardioid Condenser Headworn Microphone	BP894xcH & BP894xcH-TH	BP894xcW & BP894xcW-TH
1	/ Cardioid Condenser Headworn Microphone	ATM73cH	ATM73cW
5	/ Cardioid Condenser Headworn Microphone	ATM75cH	ATM75cW
5	/ Hypercardioid Dynamic Headworn Microphone	PR08HEcH	PR08HEcW
	/ Cardioid Condenser Headworn Microphone	PR09cH	PR09cW
5	/ Omnidirectional Condenser Headworn Microphone	PRO92cH & PRO92cH-TH	PRO92cW & PRO92cW-TH

		cH-Version	cW-Version
	/ Subminiature Cardioid Condenser Lavalier Microphone	AT898cH	AT898cW
	/ Subminiature Omnidirectional Condenser Lavalier Microphone	AT899cH & AT899cH-TH	AT899cW & AT899cW-TH
	/ Miniature Cardioid Condenser Lavalier Microphone	AT831cH	AT831cW
	/ Miniature Omnidirectional Condenser Lavalier Microphone	AT803cH	AT803cW
0	/ Cardioid Condenser Lavalier Microphone	АТ829сН	AT829cW
	/ Omnidirectional Condenser Lavalier Microphone		MT838cW
	/ Omnidirectional Condenser Lavalier Microphone	MT830cH	MT830cW
	/ Omnidirectional Condenser Lavalier Microphone		ATR35cW

		cH-Version	cW-Version
/ Cardioid Co Instrument N w/ Universal Mounting Sys	licrophone Clip-on	ATM350UcH	ATM350UcW
/ Cardioid Co Clip-on Instru Microphone		PRO35cH	PRO35cW
/ Professiona Guitar Input (AT-GcH PRO	AT-GcW PRO
/ Professiona Guitar Input (AT-GRcH PRO	AT-GRcW PRO
/ Guitar Inpu	t Cable	AT-GcH	AT-GcW
/ Microphone	e Input Cable	XLRcH	XLRW
/ Adapter Ca	ble	AT-cWcH	

Dual-channel wireless system

When more than one wireless microphone system is required, you may find that in certain circumstances using two receivers side-by-side with individual antennas is unsuitable. For example, where the receiver needs to be placed out of sight or in a different room, such as installation for a multi-purpose venue, house of worship or a small live music performance.

The solution is to utilise one pair of antennas placed in the room to feed both the receivers.

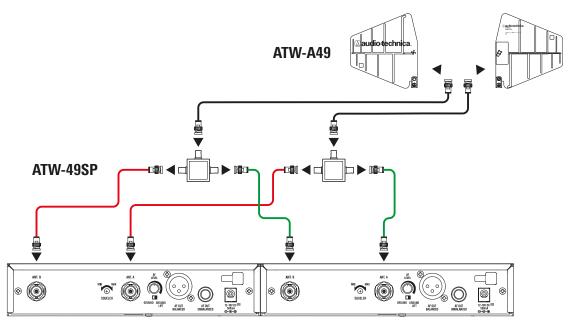
The signal is passed from the room over two 50 Ohm RF cables to the receivers' location, where the antenna signals are split into each receiver using the ATW-49SP Active Antenna Splitter Kit.

Check the signal loss of the antenna cable, based on the frequency range of your system and the specified antenna cable length and type. Audio-Technica's wireless manager software offers a "cable loss calculation tool" to do so. If the dB loss exceeds 7 dB, you should consider including the ATW-B80WB In-Line RF Booster as each 6dB of loss across the signal chain will reduce your systems operating distance by 50%.

The ATW-A49SP is powered by the receivers across the antenna cable — no external power source is required. Though our example includes the ATW-A49 LPDA Antenna, any passive antennas can be used provided they support the frequency range of your wireless systems.

If you require an active antenna like our ATW-A410P, or other active components such as the ATW-B80WB, then check the total current consumption of the individual products (simply add their stated mA together per RF cable run) to make certain that your receiver delivers the necessary power.

Compatible Audio-Technica wireless systems for this solution include the AT-One, 2000 Series and 3000 Series.



ATW-R2100b

Quantity	Code	Description	Alternative
2	ATW-R2100b	Frequency-agile True Diversity UHF Wireless Receiver	
2	ATW-T210a	2000a Series UniPak™ Transmitter	ATW-T220a Handheld Transmitter
1	ATW-A49	Pair of UHF Wide-band Directional LPDA Antennas	
1	ATW-49SP	Active Antenna Splitter Kit	
2	AC25	25'/7.6m RF Antenna Cable	AC12, AC50

Single-channel wireless system covering two zones

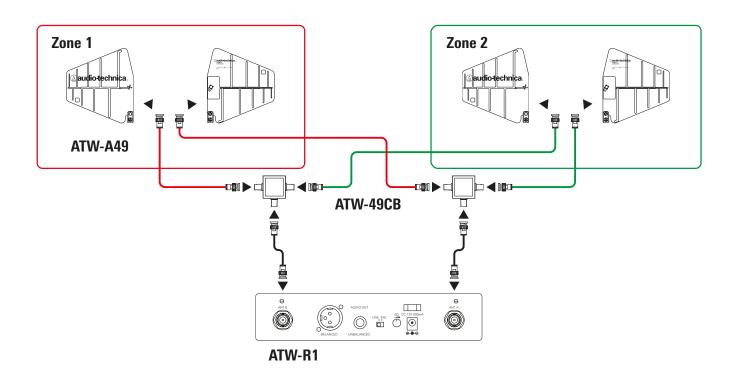
In some situations, only one wireless system is required, but there is the need to guarantee coverage over two separate areas. This, in most cases, is simply not achievable using one pair of antennas. An example of this would be when needing to cover an indoor area and its associated outdoor space, such as you may find in a restaurant, bar, or house of worship setting. Alternatively, a client may have a hotel ballroom which also divides into two multi-function areas, resulting in the need to cover the sections individually.

To achieve this solution, you will need two pairs of antennas — one pair per area requiring coverage. Then, the four antenna cables run to the receiver location, and they are combined using the ATW-49CB Active Antenna Combiner Kit. The resulting two antenna cables can then connect directly to the wireless receiver. Take care to position the ATW-49CB as close to the antennas as possible, to minimise the quantity of antenna cable required in the installation — this will improve signal integrity and reduce cost for the customer.

Refer to the notes in Application 1 for advice on specifying cable length, active antennas and boosters in the cable run.

If the receiver in use can provide adequate current, it is possible to combine Application 1 and Application 2 to create a dual-channel wireless solution with the ability to cover two zones — simply add the ATW-49SP between the ATW-49CB and the receiver.

Compatible Audio-Technica wireless systems for this solution include the AT-One, 2000 Series, 3000 Series and 5000 Series.



Quantity	Code	Description	Alternative
1	ATW-R1	Frequency-agile True Diversity UHF Wireless Receiver	
1	ATW-T1	AT-One Beltpack Transmitter	ATW-T3 Handheld Transmitter
2	ATW-A49	Pair of UHF Wide-band Directional LPDA Antennas	
1	ATW-49CB	Active Antenna Combiner Kit	
4	AC25	25'/7.6m RG8 Antenna Cable	AC12, AC50

Multiple zones wireless system

If you need to cover more than two areas which are in proximity of one another, or you simply need to cover one very large area, then this solution may suit your requirements. Consider the need for a wireless microphone which needs to operate throughout the areas of a shopping mall, or over the very wide area of a sports venue — such as a golf course.

Initially, you may consider using multiple pairs of antennas, combining them with multiple ATW-49CB. However, this is not usually the best approach, as you will either run into power issues or the total cable runs will become too long to compensate for incurred RF loss with signal boosters.

This application offers a more elegant solution. The concept begins with placing a wireless receiver of the same type, tuned to the same frequency, in each area with a local pair of antennas.

If you were to use these receivers alone, you could operate the transmitter in each room, provided you activate only one receiver at a time. Then, the audio signal can be sent from the active receiver to the local speaker system as needed. In this scenario, you must manually switch off or mute the unused receivers in order to avoid erratic audio signals being output whilst the wireless transmitter is out of range.

In most cases, this option is not practical. It may not be possible to continually ensure unused receivers are switched off between uses, or a project may demand that the wireless transmitter must work across all areas freely — without continual adjustment by a technician.

The solution is to add the ATDM-0604 Digital SmartMixer. Simply connect the audio signals from each receiver to the ATDM-0604 and set the unit to Smart Mix mode, making sure to allow only one open microphone at a time. This way, a receiver remains active in the mixer until an audio drop out occurs, which will trigger the mixer to automatically switch to the receiver featuring the most reliable signal. With this solution, you can combine up to six areas, whilst creating one reliable output signal.

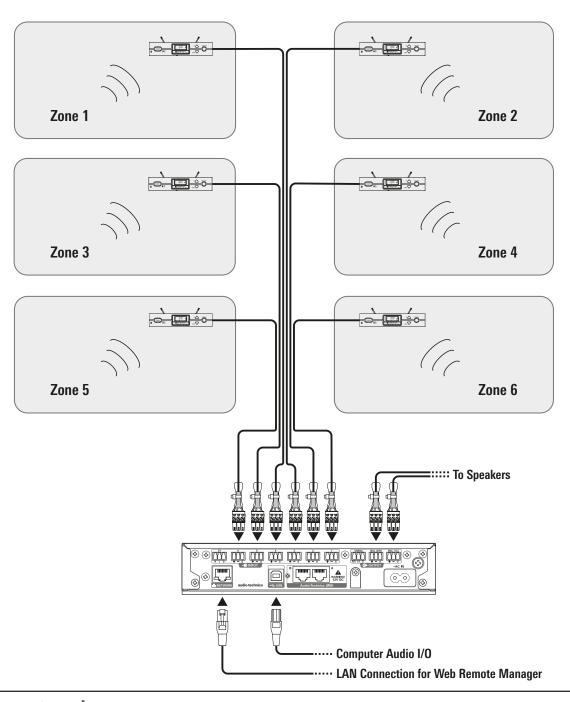
Check Application 1 for important information on total cable length, active antennas or using boosters in your antenna cable run. It is possible to combine Application 3 with Application 2 in some or all zones to increase the area of coverage even further. Also, it is possible to combine Application 3 with Application 4. In this case, you will require one ATDM mixer for each wireless microphone you want to use.

Compatible Audio-Technica wireless systems for this solution include the AT-One, 2000 Series and 3000 Series.

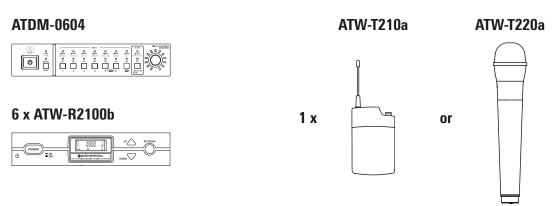




Quantity	Code	Description	Alternative
6	ATW-R2100b	Frequency-Agile True Diversity UHF Wireless Receiver	
1	ATW-T210a	2000 Series Beltpack Transmitter	ATW-T220a Handheld Transmitter
1	ATDM-0604	Digital SmartMixer	



Equipment used



Four-channel wireless system

A four-channel wireless system is often required by live music acts, podium discussions, or in fixed installations for multi-purpose rooms. Rental companies may also design their wireless systems in blocks of four channels for small to medium sized events, as these racks are easy to handle whilst being easily scaled up to a larger system when required (see Application 6).

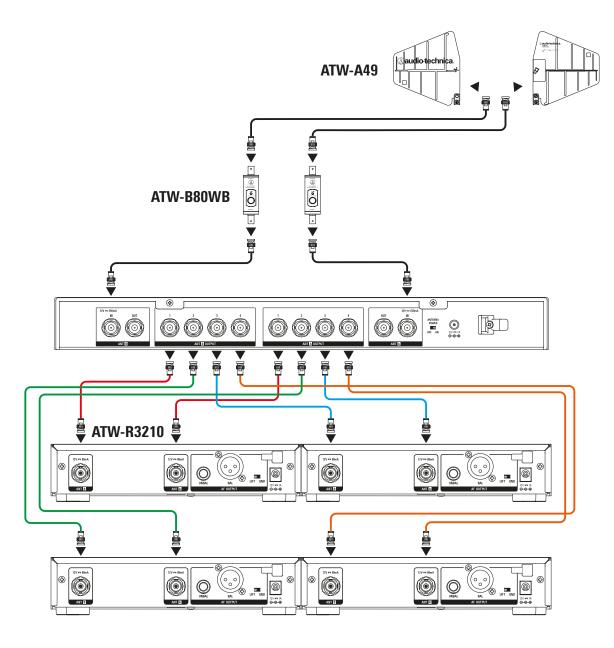
This solution is similar in design to Application 1. The primary difference is the inclusion of the ATW-DA49a, which can divide the incoming pair of antenna signals into four individual signal pairs to feed each receiver. However, this change does not only offer more outputs. In Application 1, the ATW-49SP is powered by the receiver, while in this setup the ATW-DA49a is powered by mains voltage. As a result, the ATW-DA49a distribution amplifier can provide significantly more antenna power for active components in the cable run. Due to the higher current this unit can deliver, it is possible to realise much longer cable runs, with more than one ATW-B80WB booster, as well as drive antenna combiners and active antennas before reaching a power limitation.

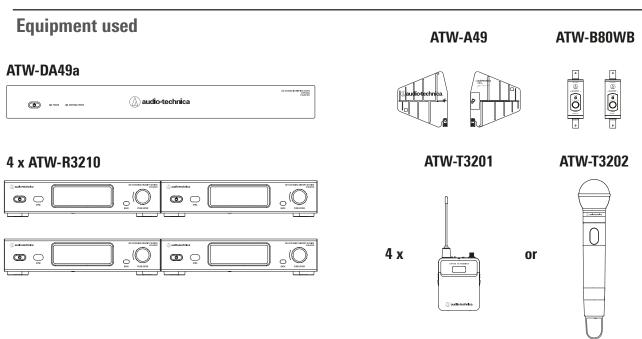
Check Application 1 for important information on total cable length, active antennas or using boosters in your antenna cable run. This application can be combined with Application 2 and is the core design for achieving Application 6.

Compatible Audio-Technica wireless systems for this solution include the AT-One, 2000 Series and 3000 Series.



Quantity	Code	Description	Alternative
4	ATW-R3210	Frequency-Agile True Diversity UHF Wireless Receiver	ATW-R3210N
4	ATW-T3201	3000 Series Beltpack Transmitter	ATW-T3202 Handheld Transmitter
1	ATW-DA49a	UHF Antenna Distribution System	
1	ATW-A49	Pair of UHF Wide-band Directional LPDA Antennas	ATW-A410P
1	ATW-B80WB	Pair of In-Line RF boosters 470-990MHz	
4	AC25	25'/7.6m RG8 Antenna Cable	AC12, AC50, AC100





Multi-channel wireless system for install

This solution is aimed at fixed installations where the use of UHF TV bands is not preferred, such as in locations with a restricted RF environment or where the customer wishes to avoid licensing costs and the need for frequency coordination. Typical applications for this include educational facilities such as schools or universities, multi-function rooms, or conference centres.

This application is based around our System 10 Pro wireless system. System 10 does not use the UHF TV band frequency spectrum (470 - 865 MHz) associated with our other wireless products but operates on the 2.4GHz spectrum, most used for WLAN and Bluetooth® transmission. 2.4GHz offers many benefits, but you must also consider its limitations when using it for wireless audio.

The immediate advantage is that System 10 Pro is completely license free in almost all countries and requires no frequency planning by the installer or operator. However, due to the small wavelength of the 2.4GHz signal (around 12cm), the operating range is shorter than our other wireless systems which use the lower UHF range. This solution is not ideal for open-air scenarios, where long operating distance is required.

However, reduced operating range can also have benefits. For example, if multiple rooms located side-by-side all require a dedicated wireless system, you can reuse the same spectrum by using System 10 Pro in adjacent rooms – very little physical separation between rooms is required.

Another challenge with the 2.4GHz range is the parallel use of Wi-Fi alongside our wireless system. In this case, it is recommended to utilise 5.8GHz for Wi-Fi connectivity in place of 2.4GHz. If this is not possible, the placement of your wireless microphone receiver becomes very important. Here is why System 10 Pro offers the right solution.

2.4GHz antenna cables suffer from higher power losses over their cable run than UHF frequencies. At the same time, many installers do not wish to locate audio racks of receivers in the meeting room, but instead place them in a separate A/V room with the audio mixer and other equipment.

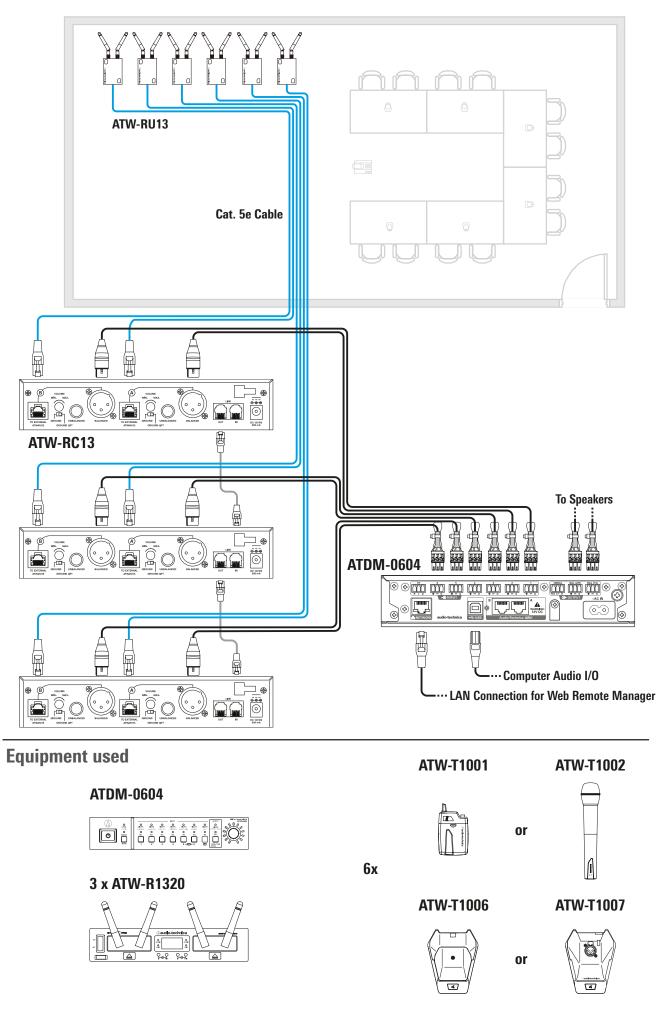
With System 10 Pro, the ATW-RU13 receiver unit can be removed and mounted remotely, connecting to the ATW-RC13 via standard ethernet cable. The ATW-RC13 can stay in the audio rack, whilst the ATW-RU13 can be mounted up to 100m away — on a wall, in the presenter podium, or hidden above the false ceiling in the room. The ATW-RU13 receiver unit is compact in size, and its included wall-mount housing can be painted in any colour to conceal it further.

Ensure to mount ATW-RU13 units as close as possible to the area where the wireless microphones will be used and aim to position any Wi-Fi access points at the opposite side of the room for maximum signal stability.

The compatible Audio-Technica wireless system for this solution is the System 10 Pro.



Quantity	Code	Description	Alternative
3	ATW-R1320	System 10 Pro Dual Channel Receiver	
6	ATW-T1006	System 10 Boundary Microphone Transmitter	ATW-T1001, ATW-T1002, ATW-T1007
1	ATDM-0604	Digital SmartMixer	



16-channel wireless system using ATW-DA49a

Where more than four wireless systems are required, this solution may be the answer. Typical applications include larger live bands, music festivals featuring multiple acts, theatre productions, larger conferences, and in sports broadcast where wireless microphones are used to collect sounds of the event.

This solution begins with the 4-channel system from Application 4. In this scenario, up to four of the 4-channel racks are used and then they are linked together using one ATW-DA49a UHF Antenna Distribution System, achieving 16 channels of wireless audio.

Note: pay special attention to the "star" topology wiring of this example: the top ATW-DA49a feeds the antenna inputs of the following four ATW-DA49a. This means that each antenna signal is passing through no more than two antenna distribution units before reaching the receiver.

Also, that the ATW-DA49a's link output have not been used in this scenario. If only eight channels are required, it is acceptable to use the ATW-DA49a's link output to pass the signal along to a second ATW-DA49a – the eight receivers then connect via each distributor's antenna outputs. However, once more wireless systems are needed, it is best practice to implement the star topology given in this example to avoid unnecessary RF signal degradation.

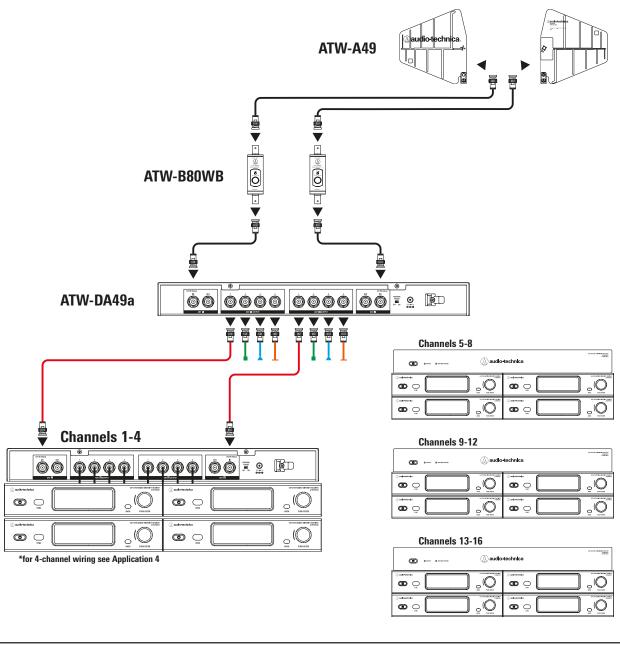
This concept is easily scalable, making it ideal for rental companies, or businesses with flexible technical requirements. Several self-contained modules of four-channel systems can be used and then quickly combined using one additional ATW-DA49a, as and when required.

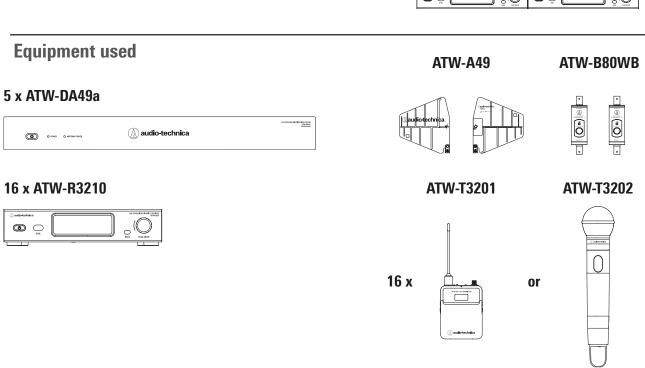
Refer to the notes in Application. 1 for advice on specifying cable length, active antennas and boosters in the cable run. This application can be combined with Application 2 and relies on Application 4.

Compatible Audio-Technica wireless systems for this solution include the 2000 Series and 3000 Series.



Quantity	Code	Description	Alternative
16	ATW-R3210N	Frequency-Agile True Diversity UHF Wireless Receiver	ATW-R3210
16	ATW-T3201	3000 Series Beltpack Transmitter	ATW-T3202 Handheld Transmitter
5	ATW-DA49a	UHF Antenna Distribution System	
1	ATW-A49	Pair of UHF Wide-band Directional LPDA Antennas	ATW-A410P
1	ATW-B80WB	Pair of In-Line RF boosters 470-990MHz	
4	AC25	25'/7.6m RG8 Antenna Cable	AC12, AC50, AC100





16-channel wireless system using daisy chain

If you require significant UHF flexibility for touring or are simply in need of a reliable wireless system with exceptional audio quality, the 5000 Series is ideal. Here the 5000 Series is used to achieve a 16-way system. This type of setup is commonly found in music festivals, touring rigs, or in smaller installations for theatre, sports and conferencing.

This is an alternative option to Application 6, consider both systems to determine which better suits the requirements.

Based around the 5000 Series, the key to this solution is the powerful antenna distribution amplifier built into the ATW-R5220 Dual Receiver. As seen in the diagram, the ATW-A49 antennas connect directly to the receivers without the need to pass through any external distribution units. Each ATW-R5220 then passes the RF signal along to the next receiver in a daisy-chain configuration. With this, up to eight dual-channel receivers can be combined in a simple and efficient way, providing 16 channels of wireless audio.

Pay special attention to the cable run in the diagram. The first antenna signal has been connected to the first receiver, passing down to the eighth receiver; meanwhile, the second antenna signal starts at the eighth receiver and works upwards. This method affords a degree of redundancy, as should any one receiver lose power the remaining units will continue to receive RF signal from at least one antenna.

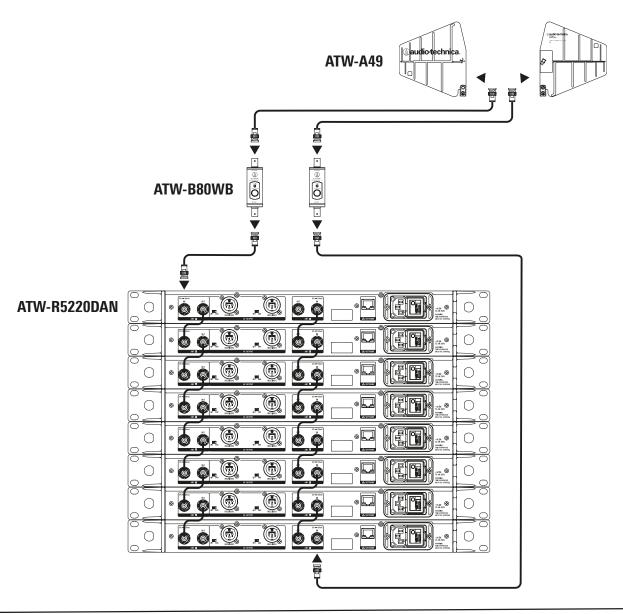
Refer to the notes in Application 1 for advice on specifying cable length, active antennas and boosters in the cable run.

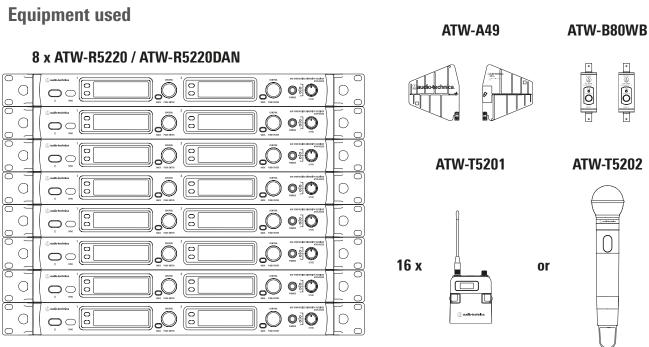
This Application can be combined with Application 2 and is essential to Application 8.

The compatible Audio-Technica wireless system for this solution is the 5000 Series.



Quantity	Code	Description	Alternative
8	ATW-R5220DAN	5000 Series Dual Channel Receiver with Dante®	ATW-R5220
16	ATW-T5201	5000 Series Beltpack Transmitter	ATW-T5202 Handheld Transmitter
1	ATW-A49	Pair of UHF Wide-band Directional LPDA Antennas	
1	ATW-B80WB	Pair of In-Line RF boosters 470-990MHz	
4	AC25	25'/7.6m RG8 Antenna Cable	AC12, AC50, AC100





64-channel wireless system / 256-channel wireless system

This system is designed for large scale wireless audio projects, as found in theatre, opera, TV & sports broadcasting, music festivals or any application where high numbers of wireless systems are essential requirements.

This solution begins with the 16-way system shown in Application 7. Having constructed racks of eight dual receivers, one ATW-DA49a UHF Antenna Distribution System can be added. This should be placed after the antennas and linked to up to four of the 16-way racks, allowing for 64 simultaneous wireless audio channels.

Is 64-channels the limit? If more than 64-channels are required, the system can be considered as one "module", and more can be added. Up to four 64-channel modules can then connect to one final ATW-DA49a, opening the possibility for a 256-channel wireless solution – all operating with just one pair of antennas.

Refer to the notes in Application 1 for advice on specifying cable length, active antennas and boosters in the cable run.

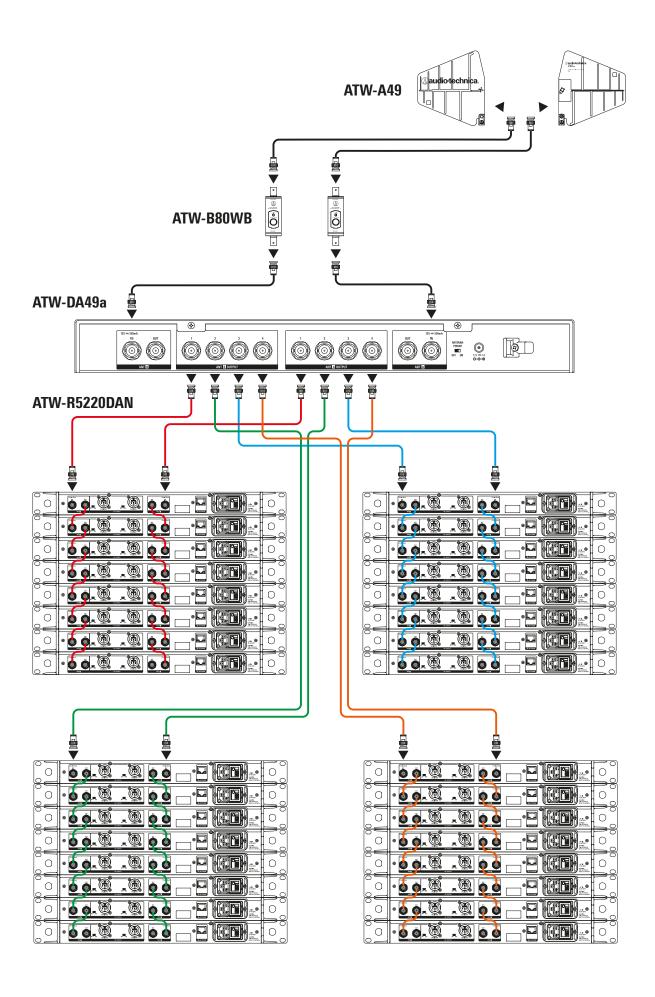
This Application can also combine with Application 2 and relies on Application 7.

The compatible Audio-Technica wireless system for this solution is the 5000 Series.





			1
Quantity	Code	Description	Alternative
32	ATW-R5220DAN	5000 Series Dual Channel Receiver with Dante®	ATW-R5220
64	ATW-T5201	5000 Series Beltpack Transmitter	ATW-T5202 Handheld Transmitter
1	ATW-DA49a	UHF Antenna Distribution System	
1	ATW-A49	Pair of UHF Wide-band Directional LPDA Antennas	
1	ATW-B80WB	Pair of In-Line RF boosters 470-990MHz	
4	AC25	25'/7.6m RG8 Antenna Cable	AC12, AC50, AC100



WIRELESS SYSTEMS / RADIO EQUIPMENT DIRECTIVE (RED) - RESTRICTIONS

998	-	893	П	P1	P1	P1	F1	P1	P1	F	P1	P1	F	P1	P1	P1	P1	P1	P1	P1	P1	F	LI	P1	F	LI	P1	P1	inP1	F1	P1	P1	P1	P1	P1
893	-	798						,																-					.=	,					,
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Please check local regulations for the latest information about usage of wire less microphones, Monя проверете местните разпоредби за последната актуална информация относно използването на безжични микрофони, Za najnovije αρχή διαχείρισης (η τους εκαστοτε κανονισμούς) οσυν αφορά την τελευταία πληροφόρηση για την χρήση των ασυρμάτων μικροφώνων, Κέηϊὐ k έβjékozódjon a rádiómikrofnok használatára vonakozó legírissebb helyi rendelkezésekről. consulter les demières informations sur l'usage des microphones sans fil dans votre région,. Bitte überpürlen Sie vor dem Enschalten die aktuellen Richtlinien zur Nurtung von Funkmikrofonen. Παρακαλώ οπως συμβουλευτεπε την τοπική Seiceáil le do thoil inialáil áitiúil don eolas is déanaí faoú úsáid na micreafóin gan sreang, Controllate i regolamenti locali per le informazioni aggiornate sull'sco dei radiomicrofoni. Lúdzu párbaudiet vietējos noteikumus parjaunako informāciju microphones". Raadlejeg, alstublieft, de meest actuele lokale informatie over het gebruik van draadloze microfoons., Prosze o sprawdzenie najnowszych informagi dotyczacych lokalnych przepisów użytkowania mikrofonów bezprzewodowych sakarā ar radio mikrofonu izmantošaru. Prašome pastitkirinti vietinius teisės aktus dėl naujausios informacijos apie belaidžių mikrofonų naudojimą. Jekk joghgbok iccekkja regolamenti lokali dwar l-ahhar informazijoni fuq l-uzu ta" wireless brug af tadløse mikrofoner. Plun kontrollige kohalikke tingimusi uusima informatsiooni saamiseks raadiomikrofonide kasutamise kohta. Jarkista aina pakallisista määräykistä uusimmattiedot langatomien mikrofonien käytöstä, Merci de informacije o korištenju bežičini mikrotna provjetie leklahe propise, Zkontroluj mistrin nafizne rýkajicí se nejnovějších informací o použiť bezdatových mikrofonů, posím, Undrsog venligst lokale regulatíver for nyeste information omkring okalne urebe, Consultes u normativa local para obtener la información más reciente sobre el uso de micrófonos inalámbricos. Vánligen kontrollera lokala föreskrifter för den senaste informationen om användning av tådlösa mikrofoner, Por gentileza, consulta a regulamentação local paa obter as informações máis recentes sobe o uso de micrónes sem fio, Vã rugâm sã verificați reglementárile în vigoare din zona dumneavoastă pentru a fi la curent cu cele mai recente informații cu privire la folosirea micorforanel ov vireless, Skontrolujte prosim miestne nariadenie tykajúce sa najnovších informácií o použitie bezdrotových mikrofonov., Za najnovejše informacije o uporabi brezžičnih mikrofonov prevente insamlegast kynnið ykkur nýjustu reglur um notkun þráðlausra hljóðnema. Vær vennlig á sjekke lokalt regelverk for informasjon om bruk av trádlase mikrofoner.



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Audio-Technica UK

Audio-Technica Ltd. Technica House Unit 5, Millennium Way Leeds, LS11 5AL England

T: +44 (0)113 277 1441 F: +44 (0)113 270 4836

E: info@audio-technica.co.uk
eu.audio-technica.com

Audio-Technica Spain

Audio-Technica Iberia SAU

Oficina Barcelona: Montserrat Roig 13 08908 L'Hospitalet de Llobregat Barcelona, Spain T: +34 935 222 450

Oficina Madrid: Fresadores 35 28939 Arroyomolinos, Madrid, Spain T: +34 913 619 081

> E: info@audio-technica.es www.**audio-technica**.es

Audio-Technica Germany

Audio-Technica Deutschland GmbH Peter-Sander-Str. 43 C D-55252 Mainz-Kastel Germany

> T: +49 (0) 6134 25734 0 F: +49 (0) 6134 25734 50

E: info@audio-technica.de www.**audio-technica**.de

Audio-Technica Central Europe

Audio-Technica Central Europe Ltd. H-1107 Budapest Fogadó u. 3. Hungary

> T: +36 1 433 34 08 F: +36 1 431 90 06

E: info-ce@audio-technica.eu www.**audio-technica**.hu

Audio-Technica France

Audio-Technica SAS 130, rue Victor Hugo 92300 Levallois-Perret France

T: +33 (0) 1 43 72 82 82 F: +33 (0) 1 43 72 60 70

E: info@audio-technica.fr www.**audio-technica**.fr

Audio-Technica Benelux

incorporating lemke Roos Audio Audio-Technica Benelux B.V. Kuiperbergweg 20 1101 AG Amsterdam The Netherlands

T: + 31 20 6972121

E: info@audio-technica.nl www.audio-technica.nl



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