



3000 Digital Series



OVERALL SYSTEM SPECIFICATIONS

Operating Frequencies	Band DE2E: 470.125 to 529.975 MHz Band EE1E: 530.000 to 589.975 MHz Band FF1E: 606.000 to 665.975 MHz
Minimum Frequency Step	125 kHz
Modulation Mode	$\pi/4$ -shift DQPSK
Occupied Bandwidth	192 kHz or lower
Dynamic Range	ATW-DT3101 (Mic input): 120 dB or higher, A-weighted, typical ATW-DT3101 (Inst input): 108 dB or higher, A-weighted, typical ATW-DT3102: 120 dB or higher, A-weighted, typical
Total Harmonic Distortion	0.1% or less (at 1 kHz, -20 dBFS)
Delay	2.5 ms or less <i>During XLR output.</i>
Operating Range	120 m <i>Open range environment with no interfering signals.</i>
Frequency Response	20 to 22,000 Hz <i>Depending on the microphone element used.</i>
Number of Simultaneous Channels	Up to 22ch in one 8 MHz TV channel <i>Depending on radio wave environment and usage conditions.</i>

Advanced security features

A 4-digit PIN code can be set between transmitter and receiver to limit external access to broadcast audio signals. For enhanced security, AES-256* mode can be activated to ensure a fully private connection between one transmitter and its associated receiver.

* AES-256 is an Advanced Encryption Standard established by the National Institute of Standards and Technology (NIST).

Network

Used with Audio-Technica's Wireless Manager software, you can monitor frequency coordination, equipment status and logs. Wireless Manager can also use a system to check the RF environment in real-time and check signal reliability with a walk test.

Charging status information can be obtained via network connection.

Antenna cascade output

The ATW-DR3120DAN features an antenna cascade output, allowing up to 5 receivers to be linked together. This means a single pair of antennas can feed up to 10 channels of wireless without antenna distribution, significantly reducing cost and rack space required.

When utilising higher channel counts, an antenna distributor may be required.

External control

Supports touch panel interfaces such as AMX, CRESTRON and system controllers via an IP Control Protocol, allowing deeper integration with audio-visual control programs.

Dante™ output

The ATW-DR3120DAN features Dante™, providing a low-latency, high-performance network audio solution which is easy to implement, use and extend.

Uncompromising high-quality sound

In addition to 24-bit / 48 kHz digital processing, the 3000 Digital Series features a wide 120 dB dynamic range. Our proprietary audio codec technology accurately represents high frequencies, making the system well suited for use with musical instruments, as well as voices.

60 MHz tuning range

Features an extremely wide 60 MHz UHF tuning bandwidth for maximum versatility in an increasingly congested RF environment.

Battery charging

When fitted with NiMH rechargeable batteries, the 3000 Digital Series transmitters can be easily charged using the optional ATW-CHG3 or ATW-CHG3N Charging Station.

Low-latency audio output

The system features a low latency of 2.5 ms to balanced XLR audio outputs, providing a stable audio signal with a fast response due to low delay after error correction.

Interchangeable microphone capsules

Includes an industry-standard thread mount for use with A-T microphone capsules and compatible alternatives. Audio-Technica offers a line-up of standard models such as the ATM510, ATM710 and Artist Elite flagship microphones.



ATW-DT3101 Specifications

3000 Digital Series Body Pack Transmitter

High-quality sound transmitter for use with microphones and cables featuring cH-style screw-down 4-pin connector.

- Equipped with Audio-Technica proprietary codec designed for high sound quality.
- 2.5 ms audio latency.
- Unique multifunction button can be used to perform one of two functions: turn off RF transmission or switch to a backup frequency to avoid interference.
- Rugged cH-style screw-down 4-pin connector provides secure connection to lavalier mics, headworn mics, and cables with cH-style connector.
- Gain can be adjusted in 2 dB increments from -10 to 20 dB.
- Compatible with optional ATW-CHG3 and ATW-CHG3N smart charging docks to recharge NiMH batteries.



ATW-DT3102 Specifications

3000 Digital Series Handheld Transmitter

High-quality sound transmitter compatible with interchangeable microphone capsules.

- Equipped with Audio-Technica proprietary codec designed for high sound quality.
- 2.5 ms audio latency.
- Extremely low handling noise.
- Industry-standard thread for use with interchangeable A-T microphone capsules and compatible alternatives.
- Unique multifunction button can be used to perform one of two functions: turn off RF transmission or switch to a backup frequency to avoid interference.
- Gain can be adjusted in 2 dB increments from -10 to 20 dB.
- Compatible with optional ATW-CHG3 and ATW-CHG3N smart charging docks to recharge NiMH batteries.



ATW-DR3120DAN Specifications


3000 Digital Series Dual Channel Receiver with Dante™

High-quality digital wireless system with a newly developed proprietary codec.

- Equipped with Audio-Technica proprietary codec designed for high sound quality.
- 2.5 ms audio latency.
- Antenna cascade output allows up to 5 receivers to be linked together, enabling a single pair of antennas to power 10 wireless channels.
- AES-256 function provides enhanced confidentiality.
- Network-enabled receiver provides monitoring and control via Wireless Manager software.
- Switchable Audio MIX function allows both receiver channels to be mixed to one output socket.
- Features an AES67-compatible Dante™ output.





SPECIFICATIONS		ATW-DT3101
RF Output Power		High: 20 mW, Mid: 10 mW, Low: 2 mW
Inout Connection		Four pin locking connector (Pin 1: GND, pin 2: INST INPUT, pin 3: MIC INPUT, pin 4: DC BIAS +5 V)
		
High-pass Filter (low-freq. roll-off)		80 Hz, 120 Hz, 160 Hz, 12 dB/octave
Power Supply		Two alkaline or nickel-metal hydride 1.5 V AA batteries (not included)
Operating Temperature Range		-5°C to +40°C (23°F to 104°F)
Battery Life		When using nickel-metal hydride 1.5 V AA batteries: Approx. 7 hours (1900 mAh High), approx. 9 hours (2500 mAh High) When using alkaline 1.5 V AA batteries: Approx. 6 hours (High)
Dimensions		64 mm (2.52") × 23 mm (0.91") × 82 mm (3.23") (W × D × H)
Weight (without batteries)		Approx. 105 g (3.7 oz)
Included Accessories		Pouch
		ATW-DT3102
RF Output Power		High: 20 mW, Mid: 10 mW, Low: 2 mW
High-pass Filter (low-freq. roll-off)		80 Hz, 120 Hz, 160 Hz, 12 dB/octave
Power Supply		Two alkaline or nickel-metal hydride 1.5 V AA batteries (not included)
Operating Temperature Range		-5°C to +40°C (23°F to 104°F)
Battery Life		When using nickel-metal hydride 1.5 V AA batteries: Approx. 7 hours (1900 mAh High), approx. 9 hours (2500 mAh High) When using alkaline 1.5 V AA batteries: Approx. 6 hours (High)
Dimensions		193 mm (7.60") × 37 mm (1.46") (without microphone capsule)
Weight (without batteries)		Approx. 205 g (7.23 oz)
Included Accessories		Pouch, AT8456a Quiet-Flex™ microphone stand clamp
		ATW-DR3120DAN
Receiving System		True diversity
Image Rejection		70 dB
RF Sensitivity		-98 dBm (10 ⁻⁵ BER)
Maximum Output Level		18 dBV (Line), -12 dBV (Mic)
Antenna Input		BNC-type, 50 ohms
Antenna Power		12 VDC, 150 mA (combined)
Power Supply		100 to 240 VAC (50/60 Hz)
Operating Temperature Range		-5°C to +40°C (23°F to 104°F)
Dimensions		483 mm (19.02") × 385 mm (15.16") × 44 mm (1.73") (W × D × H)
Weight		Approx. 4.1 kg (144.6 oz)
Included Accessories		Flexible UHF antenna × 2, power cable, rubber feet × 4



Product codes

ATW-DT3101

ATW-DT3101DE2E
ATW-DT3101EE1E
ATW-DT3101FF1E

ATW-DT3102

ATW-DT3102DE2E
ATW-DT3102EE1E
ATW-DT3102FF1E

ATW-DR3120DAN

ATW-DR3120DANDE2EEU
ATW-DR3120DANDE2EUK
ATW-DR3120DANEE1EEU
ATW-DR3120DANEE1EUK
ATW-DR3120DANFF1EEU
ATW-DR3120DANFF1EUK