

## 1800 Series Single-channel Camera-mount UHF Wireless Microphone Systems



Audio-Technica's 1800 Series single-channel camera-mount wireless systems provide extremely flexible, professional, and easy-to-use portable wireless solutions.

With True Diversity UHF reception (996 frequencies user-selectable in 25 kHz steps), single-channel 1800 wireless systems come equipped with the ATW-R1810 receiver plus a choice of plug-on or body-pack transmitters. The ATW-T1801 UniPak™ body-pack transmitter features a professional locking 4-pin connector compatible with all Audio-Technica Wireless Essentials® microphones. The ATW-T1802 plug-on transmitter features a locking XLR connector for adapting dynamic and condenser microphones. Both transmitters offer selectable high and low transmission modes to conserve battery life/maximize power.

Additional 1800 Series features include automatic frequency scanning, Tone Lock™ squelch, back-lit LCD, soft-touch buttons, headphone monitor output with independent level control, and durable metal construction.

- **Easy, user-friendly operation and clear, natural sound quality**
- **Compact receiver ideal for on-camera use**
- **UHF reception with 996 frequencies selectable in 25 kHz steps**
- **Automatic frequency scanning for easy selection of open channels**
- **True Diversity operation for resistance to multi-path interference and dropouts**
- **Tone Lock™ squelch system eliminates interference when transmitter is off (Transmitters are compatible with Advanced Digital Tone Lock™ squelch on Audio-Technica's 3000 Series UHF Wireless Systems)**
- **Balanced output on receiver allows connection to a balanced microphone-level input on camera, mixer or amplifier**
- **Headphone monitor output with independent level control**
- **Soft-touch controls for easy frequency selection**
- **LCD frequency and battery status display with backlight**
- **Antenna and AF Peak LED indicators**
- **Transmitters operate in low or high transmission modes to conserve battery life/maximize power**
- **Plug-on transmitter is compatible with condenser microphones designed to use 12V phantom power**
- **Powered by AA batteries**
- **System components of the 1800 Series and 3000 Series Wireless Systems can be used interchangeably\***
- **Also available in a dual-channel version**

\* NOTE: The 1800 Series offers operating frequencies in 25 kHz steps, while the 3000 Series offers operating frequencies in 125 kHz steps. This means that not every frequency selectable on the 1800 Series components will be selectable on the 3000 Series components. Set transmitter-receiver pair to identical frequencies.

## System Components



**ATW-R1810**  
Single-channel Receiver



**ATW-T1801**  
UniPak™ Transmitter



**ATW-T1802**  
Plug-on Transmitter

## Specifications†

### Overall System

UHF Operating Frequencies	541.500 to 566.375 MHz
Band C:	655.500 to 680.375 MHz
Band D:	655.500 to 680.375 MHz
Number of Operating Frequencies	996 total per band (25 kHz increments)
Frequency Stability	±0.005%, Phase Lock Loop frequency control
Modulation Mode	FM
Normal Deviation	±10 kHz
Operating Range	100 m (300') typical
Operating Temperature Range	23° F (-5° C) to 113° F (45° C)
Frequency Response	70 Hz to 15 kHz

### ATW-R1810 Single-channel Receiver

Receiving System	Dual independent RF sections, automatic-switching diversity
Image Rejection	>50 dB typical
Signal-to-Noise Ratio	104 dB at 30 kHz deviation (A-weighted), maximum modulation 37 kHz
Total Harmonic Distortion	<1% (±10 kHz deviation at 1 kHz)
Sensitivity	25 dBµV, (S/N 60 dB at 5 kHz deviation, A-weighted)
Audio Output (balanced)	27 mV (at 1 kHz, ±5 kHz deviation)
Output Connector	3-pin mini XLR (TA3M-type)
Monitor Headphone Output (typical)	35 mW max., 32 ohm load
Monitor Headphone Jack	3.5 mm TRS, signals on both Tip and Ring
External Power Requirements	12V DC nominal, 500 mA
Batteries (not included)	Four 1.5V AA alkaline
Current Consumption (battery)	315 mA typical
Battery Life	10 hours typical, depending on battery type and use pattern
Dimensions	75.0 mm (2.95") W x 125.0 mm (4.92") H x 32.0 mm (1.25") D
Net Weight (without batteries)	300 grams (10.5 oz)
Accessories Included	Two flexible UHF antennas; one 18" TA3F to XLRM output cable; belt pouch

## System Configurations

### ATW-1811

Camera-mount UHF Wireless Microphone System with UniPak™ Transmitter

*Includes:*

ATW-R1810 single-channel receiver  
ATW-T1801 UniPak™ body-pack transmitter  
Omnidirectional lavalier microphone

### ATW-1812

Camera-mount UHF Wireless Microphone System with Plug-on Transmitter

*Includes:*

ATW-R1810 single-channel receiver  
ATW-T1802 plug-on transmitter

### ATW-1813

Camera-mount UHF Wireless Microphone System with UniPak™ and Plug-on Transmitters

*Includes:*

ATW-R1810 single-channel receiver  
ATW-T1801 UniPak™ body-pack transmitter  
Omnidirectional lavalier microphone  
ATW-T1802 plug-on transmitter

### ATW-T1801 UniPak™ Transmitter

RF Power Output	High: 30 mW; Low: 10 mW, nominal
Spurious Emissions	Under federal regulations
Dynamic Range	>105 dB, A-weighted
Input Connections	High impedance, low impedance, bias
Batteries (not included)	Two 1.5V AA alkaline
Current Consumption	High: 180 mA; Low: 160 mA, typical
Battery Life	Approximately 6 hours (High); 8 hours (Low), depending on battery type and use pattern
Dimensions	66.0 mm (2.60") W x 87.0 mm (3.43") H x 24.0 mm (0.94") D
Net Weight (without batteries)	80 grams (2.8 oz)

### ATW-T1802 Plug-on Transmitter

RF Power Output	High: 30 mW; Low: 10 mW, nominal
Spurious Emissions	Under federal regulations
Dynamic Range	>105 dB, A-weighted
Input Connector	3-pin locking XLRF-type
Microphone Power	Provides power to condenser microphones rated to operate on 12V phantom power or less
Batteries (not included)	Two 1.5V AA alkaline
Current Consumption	High: 180 mA; Low: 160 mA, typical
Battery Life	Approximately 6 hours (High); 8 hours (Low), depending on battery type and use pattern
Dimensions	40.0 mm (1.57") x 111.0 mm (4.37") x 40.0 mm (1.57")
Net Weight (without batteries)	199 grams (7.0 oz)

† Specifications are subject to change without notice.

