

ATW-1422

System 20 Digital Wireless System includes ATW-R1440 4-channel receiver and two ATW-T1402 handheld microphone transmitters.



Features



- Digital 24-bit/48 kHz wireless operation for ultimate sound quality and dependable performance
- Plug-and-play operation in the 2.4 GHz range – completely free from TV interference
- User can switch between Standard mode (10 channels) and HD mode (20 channels) to minimize latency or maximize channel count, respectively
- Receiver units can be docked in the chassis or mounted remotely (up to 328 feet away) via Ethernet cable for added versatility
- Up to five chassis can be linked and used simultaneously
- Each receiver channel can be paired with up to four transmitters, allowing users to instantly switch between different transmitter configurations
- Chassis' System ID Display shows RF signal level, system ID, transmitter battery level, and system link status
- Each half-rack receiver chassis comes with a short and a long rack ear, and two long ears can be combined as a joining plate to secure two chassis in a full rack space
- Compatible with Audio-Technica's Wireless Manager software for centralized management of system settings and operations
- Auto-lock function prevents unintended operations like turning off the power or displaying the channel select screen
- AES128 encryption for security
- Compatible with Syslog protocol
- Ability to configure, monitor, and save device settings as projects in Wireless Manager
- Transmitters and receivers include OLED screens for optimal readout of key settings and alerts
- Water- and sweat-resistant cW-style connector on body-pack transmitter provides secure connection to lavalier mics, headworn mics, and cables with cW-style locking 4-pin connector
- Charging terminals on body-pack and handheld transmitters work with ATW-CHG3/ATW-CHG3a and ATW-CHG3N/ATW-CHG3Na charging docks to recharge NiMH batteries
- Supports mixed output for situations with limited input channels

Specifications



Overall System

Operating Frequencies	2,402 to 2,480 MHz
Dynamic Range	120 dB (A-weighted), typical
Total Harmonic Distortion	< 0.05%, typical
Maximum Simultaneous Use (recommended)	Standard: 10 channels HD mode: 20 channels <i>It depends on the region and environment.</i>

System Frequency Response	20 to 20,000 Hz <i>Varies depending on the microphone to be installed.</i>
Delay	Standard: 2.8ms HD mode: 6.7ms
Audio Sampling Rate	Standard: 24-bit/48 kHz HD mode: 24-bit/48 kHz
Encryption Method	AES128

Receiver & Transmitter Specifications**ATW-R1440****ATW-RC14**

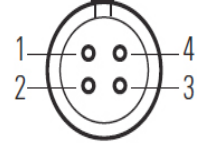
External Receiver Unit Port	RJ45
NETWORK Port	RJ45: Fast Ethernet
LINK IN/OUT Port	RJ12
Output Level	LINE max: +22 dBu (+20 dBV) LINE Unity: -20 Bu (-22 dBV) MIC max: -12 dBu (-10 dBV) MIC Unity: -50 dBu (-52 dBV)
Power Consumption	3.7W
Power Supply	12 V DC, 0.5 A (AC adapter)
Operating Temperature Range	0°C to +40°C (32°F to 104°F)
Dimensions	209.8 mm (8.3") × 165.6 mm (6.5") × 42.5 mm (1.7") (W × D × H)
Weight	740 g (26 oz)
Included Accessories	AC adapter, AC adapter blade, short rack-mount adapter, long rackmount adapter, fixing screw × 5, link cable (30 cm [12"]), leg × 4

ATW-RU14

Modulation Mode	GFSK
RF Output Power	10mW EIRP

RF sensitivity	-90 dBm, typical
Antenna	1/2 wave dipole antenna, true diversity
External Connection Port	RJ45
Power Supply	12 V DC (RC14)
Operating Temperature Range	0°C to +40°C (32°F to 104°F)
Dimensions	86.0 mm (3.4") × 70.2 mm (2.8") × 18.7 mm (0.74") (W × D × H)
Weight	77 g (2.7 oz)
Included Accessory	Unit holder, holder cover, wood screws x 2, antenna x 4

ATW-T1401 BODY-PACK TRANSMITTER

Modulation Mode	GFSK
RF Output Power	10mW EIRP
RF Sensitivity	-90 dBm, typical
Antenna	True diversity
Input Connection	<p>Four pin locking connector Pin 1: GND Pin 2: INST INPUT Pin 3: MIC INPUT Pin 4: DC BIAS +10 V</p> 
Battery	3 V DC (two 1.5 V AA)
Battery Life	AA alkaline batteries: Approx. 15 hours AA nickel-hydrogen batteries: Approx. 14 hours and 30 minutes

	AA lithium batteries: Approx. 29 hours <i>This varies depending on usage conditions.</i>
Operating Temperature	5°C to +40°C
Dimensions	63.7 mm (2.5") × 22.7 mm (0.89") × 107.4 mm (4.2") (W × D × H)
Weight	80g (2.8 oz) ,without batteries

ATW-T1402 HANDHELD TRANSMITTER

Modulation Mode	GFSK
RF Output Power	10mW EIRP
RF Sensitivity	-90 dBm, typical
Antenna	True diversity
Microphone Type	Dynamic
Microphone Polar Pattern	Hypercardioid
Battery	3 V DC (two 1.5 V AA)
Battery Life	Approx. 18 hours (alkaline) Approx. 16 hours 30 minutes (Ni-MH) Approx. 35 hours (lithium) <i>This varies depending on usage conditions.</i>
Operating Temperature Range	5°C to +40°C (41°F to 104°F)
Dimensions	265.0 mm (10") × 53.7 mm (2.1")
Weight	300 g (11 oz), without batteries
Included Accessories	Mic holder AT8456a, converting thread adapter (3/8" - 5/8")

ATW-T1406 BOUNDARY MICROPHONE TRANSMITTER

Modulation Mode	GFSK
RF Output Power	10mW EIRP
RF Sensitivity	-90 dBm, typical

Antenna	True diversity
Maximum Input Sound Pressure Level	139 dB SPL
Microphone Type	Condenser
Microphone Polar Pattern	Cardioid
Built-in Battery	3.7V lithium-ion battery (5.5Wh, 1460mAh)
Battery Life	Approx. 12 hours <i>This varies depending on usage conditions.</i>
Charging Time	Approx. 3 hours and 10 minutes <i>This varies depending on usage conditions.</i>
USB Charging Port	USB Type-C (USB 2.0)
Operating Temperature Range	5°C to +40°C (41°F to 104°F)
Dimensions	90.5 mm (3.6") × 129.4 mm (5.1") × 31.9 mm (1.3") (W × D × H)
Weight (with battery)	510 g (18 oz), including battery
Included Accessories	USB power supply adapter, USB power supply adapter blade, USB cable (1.5 m [4.9'])

ATW-T1407 DESK STAND TRANSMITTER

Modulation Mode	GFSK
RF Output Power	10mW EIRP
RF Sensitivity	-90 dBm, typical
Antenna	True diversity
Microphone	Gooseneck microphone supported
Phantom Power Supply	DC24V
Built-in Battery	3.7 V lithium-ion battery (5.5 Wh, 1,460 mAh)

Battery Life	When using a gooseneck microphone with no LED: Approx. 12 hours When using a gooseneck microphone with an LED: Approx. 8 hours <i>This varies depending on usage conditions.</i>
Charging Time	Approx. 3 hours and 10 minutes <i>This varies depending on usage conditions.</i>
USB Charging port	USB Type-C (USB 2.0)
Operating Temperature Range	5°C to +40°C (41°F to 104°F)
Dimensions	90.5 mm (3.6") × 129.4 mm (5.1") × 47.6 mm (1.9") (W × D × H)
Weight	490 g (17 oz), including battery
Included Accessories	USB power supply adapter, USB power supply adapter blade, USB cable (1.5 m [4.9'])