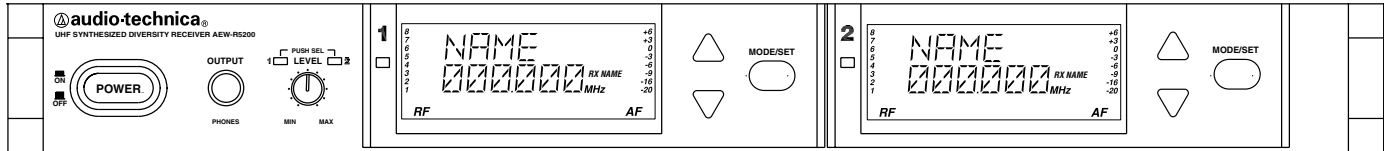


Artist Elite® 4000 & 5000 Series

Professional UHF Wireless Systems
Installation and Operation



This device complies with the European R&TTE directive 1999/05/EC. Operation is subject to the condition that this device does not cause harmful interference.

Dispose of exhausted batteries in accordance with local/national regulations. Do not dispose of exhausted batteries in a fire or incinerate.

Remove outer cover in order to access power rating and model number information. (handheld transmitter)

Do not use the body-pack if antenna shows any signs of damage. (body-pack transmitter)

CAUTION! The circuits inside the receiver and transmitter have been precisely adjusted for optimum performance. Do not attempt to open the receiver or transmitter. To do so will void the warranty, and may cause improper operation.



CAUTION: RISK OF ELECTRIC SHOCK DO NOT OPEN

To prevent electric shock, do not remove the cover. There are no user-serviceable parts inside. Internal adjustments are for qualified professionals only. Refer all servicing to qualified service personnel.



AVIS : RISQUE DE CHOC ÉLECTRIQUE NE PAS OUVRIR

Pour prévenir un choc électrique, ne pas ouvrir le couvercle. Il n'y a aucune pièces de rechanges à l'intérieur. Tout ajustement interne doit être fait par une personne qualifié seulement. Référez tout réparation au personnel qualifié.

WARNING: This apparatus must be grounded.

This product is a safety class 1 product. There must be an uninterruptible safety earth ground from the main power source to the product's AC input. Whenever it is likely that the protection has been impaired, disconnect the power cord until the ground has been restored.

ATTENTION: Cet appareil doit être mise à la terre.

Cet appareil est de classe de sûreté 1. Il doit y avoir un ininterrompable de mise à la terre de sécurité provenant de la source principale de courant de l'appareil de l'entrée du courant alternatif. Quand la protection a été affaiblie, débrancher le fil de courant jusqu'à la mise à terre a bien été réétablie.

WARNING:

This apparatus shall not be exposed to dripping or splashing.

No objects filled with liquids, such as vases, shall be placed on this apparatus.

Do not install this apparatus in a confined space such as a bookcase or similar unit.

The apparatus should be placed close enough to the AC outlet so that you can easily grasp the power cord at any time.

CAUTION! Do not expose batteries to excessive heat, such as direct sunlight or open fires.

ATTENTION! Ne pas exposer les piles à une chaleur excessive, telle que la lumière directe du soleil ou le feu.



WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

ATTENTION: Pour prévenir feu ou choc électrique, ne pas exposer l'appareil à la pluie ou à l'humidité.

CAUTION: For continued protection against fire hazard, replace only with same type/rating of fuse.

AVIS: Pour poursuivre la protection contre le feu, remplacez la fusible de même type/cote.

WARNING: There are some sharp edges inside. To reduce the risk of injury, do not remove cover.

ATTENTION: Bord tranchant à l'intérieur. Pour réduire le risque de blessure, ne pas ouvrir le couvercle.

Notice to individuals with implanted cardiac pacemakers or AICD devices:

Any source of RF (radio frequency) energy may interfere with normal functioning of the implanted device. All wireless microphones have low-power transmitters (less than 0.05 watts output) which are unlikely to cause difficulty, especially if they are at least a few inches away. However, since a "body-pack" mic transmitter typically is placed against the body, we suggest attaching it at the belt, rather than in a shirt pocket where it may be immediately adjacent to the medical device. Note also that *any medical-device disruption will cease when the RF transmitting source is turned off*. Please contact your physician or medical-device provider if you have any questions, or experience any problems with the use of this or any other RF equipment.

The systems can be supplied in five frequency bands within the UHF range. Please note: Frequency usage is different for each country. Your Audio-Technica agent will have all the necessary details on the available legal frequencies for your area.

Band C: 541.500 – 566.375 MHz
Band D: 655.500 – 680.375 MHz
Band E: 795.500 – 820.000 MHz
Band F: 840.125 – 864.875 MHz
Band G: 721.500 – 746.375 MHz

For use in China, it is necessary for the user to utilize a CCC certified power cord.

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

This device complies with INDUSTRY CANADA R.S.S. 210, en conformité avec IC: RSS-210/CNR210. Operation is subject to the following conditions: 1) This device may not cause harmful interference and 2) this device must accept any interference received, including interference which may cause undesired operation.

CAUTION! The circuits inside the receiver and transmitter have been precisely adjusted for optimum performance and compliance with federal regulations. Do not attempt to open the receiver or transmitter. To do so will void the warranty, and may cause improper operation.

Usage :-

The AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 are intended to use in: AT - BE - BG - CY - CZ - DE - DK - EE - ES - FI - FR - GB - GR - HU - IE - IT - LT - LU - LV - MT - NL - PL - PT - RO - SE - SI - SK.
Please note : Frequency usage is different for each country. Your Audio-Technica agent will have all the necessary details on the available legal frequencies for your area.

Statement of Compliance:-



<p>Hereby, Audio-Technica, declares that this AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.</p>
<p>Audio-Technica vakuuttaa täten että AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.</p>
<p>Hierbij verklaart Audio-Technica dat het toestel AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.</p>
<p>Bij deze verklaart Audio-Technica dat deze AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.</p>
<p>Par la présente, Audio-Technica déclare que ce AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 est conforme aux exigences essentielles et aux autres dispositions de la directive 1999/5/CE qui lui sont applicables.</p>
<p>Härmed intygar Audio-Technica att denna AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.</p>
<p>Undertegnede Audio-Technica erklærer herved, at følgende udstyr AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.</p>
<p>Hiermit erklart Audio-Technica, dass sich dieser/diese/dieses AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet. (BMW)</p>
<p>Hiermit erklart Audio-Technica die Übereinstimmung des Gerätes AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG. (Wien)</p>
<p>ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Audio-Technica ΔΗΛΩΝΕΙ ΟΤΙ ΑEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.</p>
<p>Con la presente Audio-Technica dichiara che questo AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.</p>
<p>Por medio de la presente Audio-Technica declara que el AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE</p>
<p>Audio-Technica declara que este AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.</p>
<p>Společnost Audio-Technica tímto prohlašuje, že AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 splňuje základní požadavky a další příslušné ustanovení Direktivy 1999/5/EC.</p>
<p>Sellelega kinnitab Audio-Technica, et see AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 vastab direktiivi 1999/5/EC põhilistele nõudmistele ja muudele asjakohastele määrustele.</p>
<p>Ar šo, Audio-Technica, apstiprina, ka AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 atbilst Direktīvas 1999/5/EK galvenajām prasībām un citiem tās nosacījumiem.</p>
<p>Šiuo, Audio-Technica, pareiškia, kad šis AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 atitinka pagrindinius Direktyvos 1999/5/EB reikalavimus ir kitas svarbias nuostatas.</p>
<p>Alulírott, Audio-Technica, kijelenti, hogy a jelen AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 megfelel az 1999/5/EC irányelvben meghatározott alapvető követelményeknek és egyéb vonatkozó előírásoknak.</p>
<p>Hawnhekk, Audio-Technica, tiddikjara li AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 josserva l-htiġijiet essenzjali u dispożizzjonijiet relevanti oħra tad-Direttiva 1995/5/KE.</p>
<p>Audio-Technica niniejszym oświadczam, że AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 spełnia zasadnicze wymogi oraz inne istotne postanowienia dyrektywy 1999/5/EC.</p>
<p>S tem Audio-Technica izjavlja, da je ta AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 v skladu z osnovnimi zahtevami in ostalimi ustreznimi predpisi Direktive 1999/5/EC.</p>
<p>Spoločnosť Audio-Technica týmto vyhlasuje, že AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 spĺňa základné požiadavky a ďalšie príslušné ustanovenia Direktivy 1999/5/EC.</p>
<p>С настоящия документ Audio-Technica декларира, че AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 е в съгласие с основните изисквания и съответните постановления на Директива 1999/5/EC.</p>
<p>Prin prezenta, Audio-Technica declară că acest AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 este conform cu cerințele principale și cu celelalte prevederi relevante ale Directivei 1999/5/EC.</p>
<p>İşbu belge ile Audio-Technica, bu AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200'in 1999/5/EC Yönetmeliği esas gereksinimlerine ve diğer şartlarına uygun olduğunu beyan eder.</p>
<p>С настоящият документ Audio-Technica декларира, че AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 е в съгласие с основните изисквания и съответните постановления на Директива 1999/5/EC.</p>
<p>Prin prezenta, Audio-Technica, declara ca urmatoarele echipamente AEW-T1000a, AEW-T5400a, AEW-T3300a, AEW-T6100a, AEW-T4100a, AEW-R4100, AEW-R5200 sunt compatibile cu standardele si prevederile Directivei Europene 1999/5/EC</p>

A full copy of the declaration of conformity with directive 1999/5/EC may be obtained from –

Audio-Technica Limited
Old Lane, Leeds, LS11 8AG, UK
www.audio-technica.com

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Introduction

Thank you for choosing an Audio-Technica professional wireless system. You have joined thousands of other satisfied customers who have chosen our products because of their quality, performance and reliability. This Audio-Technica wireless microphone system is the successful result of years of design and manufacturing experience.

Recent advances in the quality and sophistication of professional live-sound systems have been nothing short of revolutionary. Tours, clubs, broadcast events, corporate facilities and worship venues sound better than ever, utilizing better system design and better components in the audio chain.

That's why Audio-Technica has been partnering with industry professionals on the front line of this revolution — the top touring companies, award show designers, FOH and monitor engineers, audio consultants and artists — to learn what it takes to make the best-sounding, most reliable and consistent microphones for the live-sound industry.

We listened carefully. Then, we applied this knowledge to the creation of the Artist Elite® line of high-performance microphones and wireless systems. Our ultimate design goal was this: Each model must extend the performance of a sound system, not limit it.

Artist Elite Systems

Artist Elite 4000 Series and 5000 Series wireless systems by Audio-Technica share a range of transmitters in common, both body-pack and handheld types. The difference between the two series is simply in the choice of receiver:

- 4000 Series** AEW-R4100 half-rack single receiver with multi-unit, multi-channel control linking.
- 5000 Series** AEW-R5200 full-rack independent dual receiver with multi-unit, multi-channel control linking, plus Ethernet computer-control connection, and software for graphical user interface. In addition a "pass-through" AC outlet on each receiver with included AC jumper cable permits daisy-chaining of an entire AEW-R5200 receiver stack, freeing AC outlets for other equipment.

Both Artist Elite receiver models feature True Diversity reception. Two antennas feed two completely independent RF sections on the same frequency; automatic logic circuitry continuously compares and selects the superior received signal, providing better sound quality and reducing the possibility of interference and dropouts. Both receivers offer a choice of up to 996 operating frequencies in a 25 MHz-wide UHF frequency range. 25 kHz frequency spacing enables the systems to easily find an open frequency in crowded RF environments.

Transmitter models in the Artist Elite Series include:

- A UniPak® body-pack transmitter:
 - **AEW-T1000a** UniPak body-pack transmitter

Four handheld mic/transmitters with different Artist Elite microphone capsules:

- **AEW-T3300a** Handheld mic/transmitter with AEW-C3300 cardioid condenser capsule
- **AEW-T4100a** Handheld mic/transmitter with AEW-C4100 cardioid dynamic capsule
- **AEW-T5400a** Handheld mic/transmitter with AEW-C5400 cardioid condenser capsule
- **AEW-T6100a** Handheld mic/transmitter with AEW-C6100 hypercardioid dynamic capsule

All components in the 4000/5000 Series may be used together in a variety of unit combinations and system configurations to create extremely flexible and powerful solutions for a variety of applications.

4000/5000 Series systems and components operate on up to 996 frequencies in six UHF frequency bands to provide flexible performance in a wide variety of regions worldwide:

	<i>Frequency Range</i>	<i>Num. of Freq</i>
Band C:	541.500 to 566.375 MHz	996
Band D:	655.500 to 680.375 MHz	996
Band E:	795.500 to 820.000 MHz	981
Band F:	840.125 to 864.900 MHz	953
Band G:	721.500 to 746.375 MHz	996

For simplicity, model numbers used throughout this manual will reference only the basic model number without the band indications.

The IntelliScan™ automatic channel assignment system, provided on both the 4000 and 5000 Series receivers, greatly simplifies the selection of usable frequencies in both single-channel and multi-channel wireless systems. The receivers are first linked together with included communication cables. The selected "Master" receiver then "knows" how many total channels it is looking for. It can scan the available frequencies, checking for local interference sources, selecting a group of channels that will all work together (using a built-in frequency plan), and automatically setting the other receivers accordingly. Once this procedure is completed, it's just a matter of setting the transmitter frequencies to match those of the receivers.

Artist Elite® Series components feature an advanced digital Tone Lock™ squelch system and unique Dual Compressor design (patents pending). As a result, Artist Elite Series transmitters and receivers must be used together in Tx-Rx pairs and should not be mixed with components from other Audio-Technica wireless systems, or with those of other manufacturers.

All Artist Elite Series components feature soft-touch controls for quick, easy access to a formidable range of functions; a backlit LCD information display in each unit provides convenient visual indication of unit settings and operation. Digital data sent by the transmitters is available for display on the receivers.

Multi-channel Systems

Artist Elite® systems provide extensive monitoring and control facilities. Transmitter data, in addition to being available at the transmitter, is conveyed in digital form to and displayed on the associated receiver.

Linked systems: Both Artist Elite receivers provide linking jacks and cables. AEW-R4100 and AEW-R5200 receivers may be combined in linked multi-channel systems, if desired.

Ethernet-based monitoring and control (AEW-R5200): Some wireless systems on the market offer remote control/monitoring of the receiver via a serial interface, but the Audio-Technica AEW-R5200 receiver takes this a significant step further by including control over IP using standard networking protocol and Ethernet interfacing. This permits receivers in a system to be integrated, monitored and controlled from a single computer in real-time. And not only can an individual channel of an individual receiver be examined and its settings modified: if the transmitter on that channel is activated, thanks to the digital data link, data from the associated transmitter can also be monitored.

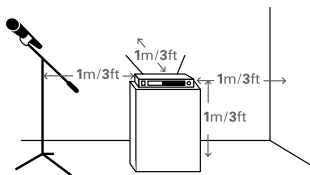
Because standard control over IP is used, Ethernet-connected AEW systems can range from a single laptop controlling a free-standing multi-channel system, to local area network-based systems, to systems controlled via the Internet, even from great distances. Complete setup and operating information for computer-connected AEW systems will be found in the separate Computer Interface manual provided with AEW-R5200 receivers and 5000 Series systems.

Receiver Installation

Location

For best operation the receiver should be at least 1 m (3 ft.) above the ground and at least 1 m (3 ft.) away from a wall or metal surface to minimize reflections. The transmitter should be at least 1 m (3 ft.) from the receiver, as shown in **Figure A**. Keep antennas away from noise sources such as digital equipment, motors, automobiles and neon lights, as well as away from large metal objects.

Fig. A



Output Connections

There are two audio outputs on the back panel: an XLR Mic Output and a 1/4" (6.3 mm) phone jack Instrument Output. The two isolated audio outputs permit simultaneous feeds to two different inputs.

AEW-R4100: This receiver offers a balanced XLR Mic jack and an unbalanced Instrument 1/4" TS phone jack. Output levels of both are adjusted by the rear-panel Attenuator (ATTN) switch.

AEW-R5200: Since there are two independent channels of receiver in the AEW-R5200, there are two sets of output jacks. All audio outputs on the AEW-R5200 are transformer-isolated and balanced.

Transmitters

The versatile AEW-T1000a UniPak® body-pack transmitter features a metal case and includes field-replaceable helical and flexible-wire antennas. It has both low- and high-impedance inputs plus a bias connection, for use with dynamic and electret condenser microphones, as well as Hi-Z instrument pickups. In addition to its programmable functions, the transmitter includes a three-position sliding control cover to limit access, if desired, to only the Power/Mute button, or to no controls at all, as appropriate for the application and/or user.

The handheld microphone/transmitters feature metal-body construction. Four models are available, incorporating a variety of capsules from the Artist Elite wired-microphone series created for professional live-sound venues.

All Artist Elite Series transmitters use two 1.5V AA batteries for economical operation and wide availability. The receiver and both transmitters have "fuel gauge" battery condition indicators with low-battery warnings.

Please note that in multiple-system applications there must be a transmitter-receiver combination set to a separate frequency for each input desired (only one transmitter for each receiver). Because the wireless frequencies are within UHF TV frequency bands, only certain operating frequencies may be usable in a particular geographic area. Also, only certain of the available operating frequencies may be used together. Operating frequencies and IntelliScan frequency groupings will be found on page 25. (Use of the IntelliScan channel assignment system will determine and set appropriate frequencies automatically.)

The ground connections of both outputs on each receiver channel may be interrupted ("lifted") by use of their associated Ground Lift switch. This permits feeding mixers with different ground levels without an additional external splitter. The Instrument output is a balanced 1/4" TRS jack with "audio +" on the Tip, "audio -" on the Ring and ground (shield) on the Sleeve. The rear-panel Attenuator (ATTN) switch for each receiver channel adjusts levels of both outputs in its channel. Use the appropriate shielded audio cable for connections between the receiver and the input(s) of the mixer or other equipment.

Antennas

Attach a pair of UHF antennas to the antenna input jacks. The antennas are normally positioned in the shape of a "V" (both 45° from vertical) for best reception. In addition to rotating at the connector, the included half-wave antennas pivot from straight to right-angle.

Antennas can be remotely located from the receiver. However, due to signal loss in cables at UHF frequencies, use the lowest-loss RF cables practical for any cable runs over 25 feet. RG8-type is a good choice. Use only copper-shielded cable, not CATV-type foil-shielded wire. Audio-Technica offers auxiliary antennas and quality RF cables in four lengths.

Antenna Power

The antenna input jacks also can provide +12V DC output on their center pins to power inline RF devices. A maximum of 20 mA can be drawn from each of the jacks. While an accidental short-circuit will

Artist Elite® 4000 & 5000 Series Professional UHF Wireless Systems

not harm the internal 12V supply, make certain that an antenna cable shield does not contact the center conductor. Antenna Power (“ANT. PWR”) is selected (switched on or off) from the LCD menu. (On the AEW-R5200, Antenna Power will be found in the menu on Channel 1 only.)

Front-mount Antennas

AEW-R4100: Provision has been made to move the antenna jacks from the rear to the front of the receiver. However, because this involves opening the receiver case and exposing AC power circuitry, instructions are not included in this manual. A qualified service technician must perform this modification.

AEW-R5200: BNC-to-BNC connectors and jumper cables are included with the unit to permit mounting antennas on the front panel.

- BNC-BNC through-panel connectors: Remove the nut and lock-washer from each connector. Install the connectors from the front into the two panel holes. Note that the flat on the threaded section must be aligned with the flat in each panel hole. Secure each connector from the back with its lock-washer and nut, tightening the nut firmly.
- BNC-BNC cable jumpers: Connect the jumpers to the rear antenna jacks first; then attach them to the BNC connectors on the front panel. Make certain the bayonet twist-rings are fully latched on the connectors at both ends.

AEW-R5200: Press and release the Phones Level control knob to switch headphone monitoring from Channel 1 to Channel 2 and back again. Small, lighted indicators just above the knob show which receiver channel is being monitored.

Power Connections

The switching power supply is designed to operate properly from any AC power source 100–240V, 50/60 Hz without user adjustment. Simply connect the receiver to a standard AC power outlet, using only an IEC-type input cordset approved for the country of use. Power to the unit is controlled by the front-panel Power switch.

AEW-R5200: An auxiliary AC “jumper” (pass-through) outlet is provided on the rear panel, and a “jumper” power cordset is included, to simplify power connections by “daisy-chaining” an array of AEW-R5200’s. Maximum output from the auxiliary outlet is 5 Amperes, which will easily handle a full complement of AEW-R5200 units.

“Link” Connections

Artist Elite Series multi-channel systems can comprise all AEW-R4100, all AEW-R5200, or combinations of AEW-R4100 and AEW-R5200 receivers. The exclusive IntelliScan™ channel assignment system provides easy, automatic scanning of the RF spectrum and assignment of usable, compatible frequencies to all linked AEW receiver channels.

Both AEW receiver models can be interconnected using Link In/Out jacks and included link cables. In addition, the AEW-R5200 offers a built-in Ethernet 10 BaseT connection, with interface software provided on CD-ROM. See the separate AEW Control Interface manual provided with AEW-R5200 receivers and 5000 Series systems.

All AEW receivers in a linked multi-channel system should be interconnected with included link cables. When the system is properly configured, the “slave” units will “link data in” to the “Master” unit. (See **Figure B** for an example.)

1. First, decide which receiver will be the “Master” unit. Connect a link cable to the Link In jack only. (In an AEW-R5200, the Channel 1 unit is the Master and Channel 2 becomes the first “slave.”)
2. Connect the free end of the link cable from the Master unit (in #1 above) to the Link Out jack of the desired “next” unit.
3. Connect one end of a new link cable to the Link In jack of the unit in #2 above.
4. Connect the free end of the link cable from the unit in #2 above to the Link Out jack of the desired “next” unit.
5. Continue this process of “daisy-chaining” the system’s receivers together with link cables. The “last” unit in the system will have a cable connected to its Link Out jack, but no connection to its Link In jack.

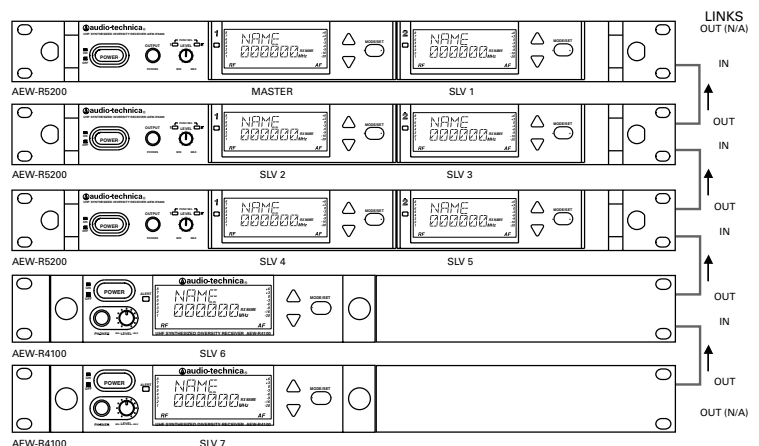
Installing link cables starting with the last slave unit and working toward the Master unit is also acceptable practice.

The attachment order of link cables establishes the numerical order of the receivers in the multi-channel system, from the selected Master unit through all the slave units. (In the case of AEW-R5200 receivers, a unit’s Channel 1 always comes before its Channel 2.) In a multi-channel system that includes both models of receivers, it’s common practice to position all the AEW-R5200 units first in the chain; followed by any AEW-R4100 units.

Note 1: For the receiver linking to work, all receivers in the system must have AC power applied at the same time, or the Master receiver must be turned on last.

Note 2: In addition, if AC power is interrupted or a link connection is broken at any receiver in a linked system, even for an instant, receivers from that unit onward are no longer linked to the system. When all power and linking have been restored, the system must be restarted by turning all the receivers Off, then On (all turned on simultaneously, or the Master receiver must be turned on last). This will re-initialize the system and re-establish all the data links.

Fig. B



Ethernet connections (AEW-R5200):

An RJ-45 jack on the rear panel of each AEW-R5200 provides an Ethernet 10 BaseT data/control connection from both of its channels to an external computer system. Data monitored includes actual, real-time “RF” and “AF” levels for receiver channels with direct Ethernet connections to the associated computer. All other linked receivers in a system supply control-function access and all their data – except for “RF” and “AF” levels – to the computer connected to the Master receiver.

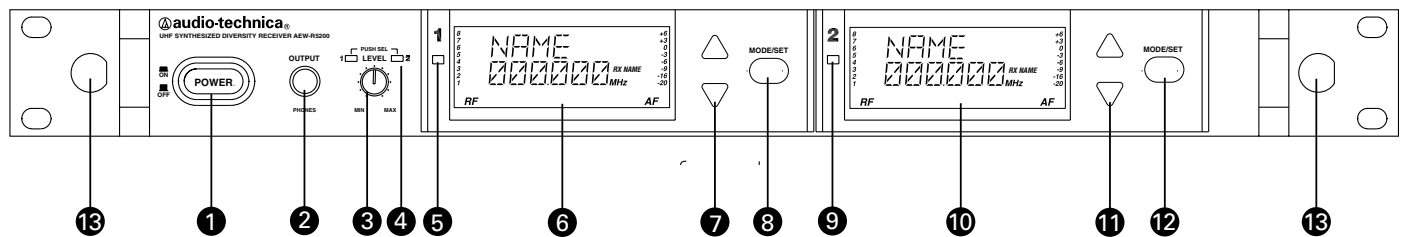
Multiple AEW-R5200 receivers in a system can each provide real-time “RF” and “AF” levels to the associated computer if each AEW-R5200 has its own Ethernet connection, through an Ethernet hub, to the computer.

Other than being able to “see” the “RF” and “AF” levels, all functions of all receivers in a linked system can be monitored and controlled from the computer connected to the Master receiver.

Details of the computer setup and operation will be found in a separate AEW Control Interface manual provided with AEW-R5200 receivers and 5000 Series systems.

Receiver Controls and Functions

Fig. C AEW-R5200 Receiver Front Panel



Front Panel Controls and Functions (Fig. C)

- POWER SWITCH:** Press the power switch to turn the receiver on. After a short power-up sequence, the display shows the operating frequency and the alert light is illuminated (if no active transmitters are present on this frequency). The receiver may also display a system position (i.e., “MASTER”, “SLV-#”) or an assigned transmitter or receiver name (if this feature has been set up—the display recalls the setting from the last time power was applied). Refer to page 13 on setting up receiver names or page 18 on setting up transmitter names.
- HEADPHONE OUTPUT:** 1/4" (6.3 mm) TRS (“stereo”) phone jack provides monitoring of the receiver’s output. Plug in either a mono or “stereo” headphone to monitor receiver signal.

Note: On an operating unit, be careful not to press the Power switch accidentally when inserting a headphone jack or adjusting the headphone level. In addition to interrupting receiver operation, even a momentary loss of power to a single unit within a linked multi-channel system will cause the loss of linking connection to the affected receiver and all those “downstream” from it.

- HEADPHONE LEVEL CONTROL / CHANNEL SWITCH:** This control is used to set a comfortable listening level for the headphone jack; it does not affect receiver audio output. Turn the control clockwise to increase the level. Press-and-release the knob to switch between Channel 1 and Channel 2.
- HEADPHONE CHANNEL INDICATOR:** Shows which receiver channel is feeding the monitor headphones.

Channel 1 / Channel 2

5 / 9 ALERT INDICATOR: The alert light illuminates to indicate to the user that something needs attention; for example, the transmitter batteries are low, or the transmitter is muted or turned off.

The Alert Indicator lights:

- When the receiver is in the Mute mode,
- When no RF signal is received from the transmitter,
- When only one or two RF signal-strength bars are on,
- When the transmitter is in the Mute mode,
- When audio modulation level from the transmitter is close to the clipping point (AF +6 bar), or
- When the “LOW BAT” warning appears in the LCD (transmitter battery is weak).

6 / 10 LCD WINDOW: Liquid Crystal Display indicates control settings and operational readings. It is also used in conjunction with the Mode/Set and Up/Down arrow buttons to change user-configurable functions. See Figure G on page 12 for details.

7 / 11 UP/DOWN BUTTONS: Press Up or Down arrow button, in conjunction with the Mode/Set button, to scroll through the function menu in Menu mode or through the available choices for a given function in Edit mode. When the receiver is in normal operating mode, the Up/Down arrow buttons scroll through Receiver Address (“MASTER” or “SLV-#”), Receiver Preset Name, or Transmitter Preset Name.

Receiver Controls and Functions (Continued)

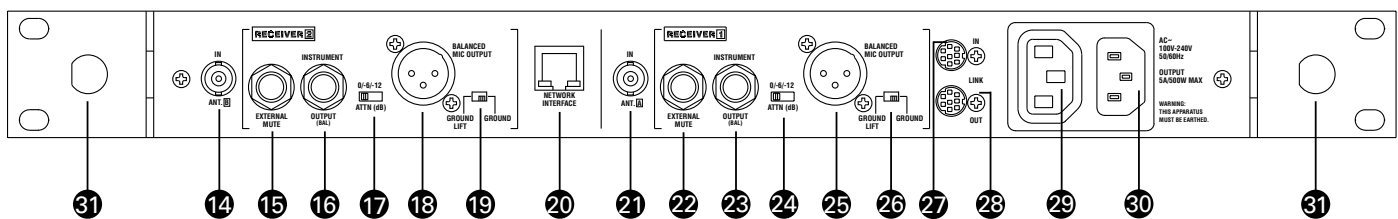
8 / 12 MODE/SET BUTTON: Use in conjunction with the Up/Down arrow buttons to step through menus, choose operating frequency and select receiver function options. The Mode/Set button has different functions depending on the status of the receiver. Two distinct operations are associated with this button:

Touch: A momentary press of the Mode/Set button. It is used to enter Menu mode, to enter Edit mode, or to Escape without making any changes to current settings.

Hold: A press and hold (about two seconds) of the Mode/Set button. It is used to accept a new setting when the receiver is in Edit mode or to save the current settings to one of the five user-defined name presets or the internal memory location ("NAME?").

13 FRONT-MOUNT ANTENNAS: Cables and panel connectors are included with the AEW-R5200 to permit attaching antennas at the front panel.

Fig. D AEW-R5200 Receiver Rear Panel

**Rear Panel Controls and Functions (Fig. D)**

14 ANTENNA INPUT JACK: BNC-type antenna connector for Tuner "B." Attach the antenna directly, or extend it with a low-loss antenna cable. See the "Antennas" section on page 7 for more details. Antenna power at +12 volts is available at both antenna jacks; select it via the LCD menu on Channel 1.

15 / 22 EXTERNAL MUTE: Permits manual and absolute muting of the receiver via a 1/4" TS phone jack and a user-provided external switch. "Shorting" the jack (closing the switch connection) mutes the receiver channel. When External Mute has been applied, the only way to un-mute the receiver is to open the External Mute switch connection.

16 / 23 INSTRUMENT OUTPUT JACK: 1/4" transformer-isolated TRS balanced phone jack output. Tip: "audio +"; Ring: "audio -"; Sleeve: ground (shield). Can be connected to an aux-level input of a mixer, guitar amp or tape recorder. Using the associated Ground Lift switch permits feeding equipment with different ground levels.

17 / 24 AF OUTPUT ATTENUATOR: Three-position switch adjusts audio output level of both audio output jacks, with attenuation of 0 dB, -6 dB or -12 dB.

18 / 25 MIC OUTPUT JACK: XLRM-type connector. Pin 1: ground (shield); Pin 2: "audio +"; Pin 3: "audio -". A standard 2-conductor shielded cable can be used to connect the receiver output to a balanced microphone-level input on a mixer or integrated amplifier. This output is transformer-isolated from the 1/4" TRS Instrument output jack.

19 / 26 GROUND LIFT SWITCH: Disconnects the ground of both the Mic and Instrument output jacks on the associated receiver channel. Normally, the switch should be to the right (ground connected). If hum caused by a ground loop occurs, slide switch to the left (ground lifted).

20 NETWORK INTERFACE CONNECTOR: An Ethernet connection on the AEW-R5200 provides full communication and monitor/control by an associated computer. See the separate AEW Control Interface manual for computer setup and operation.

21 ANTENNA INPUT JACK: Connector for Tuner "A." Attach the antenna directly, or extend it with a low-loss antenna cable. Antenna power at +12 volts is available at both antenna jacks.

27 LINK IN JACK: Connect the provided cable to this jack with the index mark on the plug aligned toward the screw head to the right of the jack. The receiver with a Link In and no Link Out connection is the "Master" unit. (With an AEW-R5200 in the Master position, its Channel 1 is the system's Master and its Channel 2 is the first "slave.")

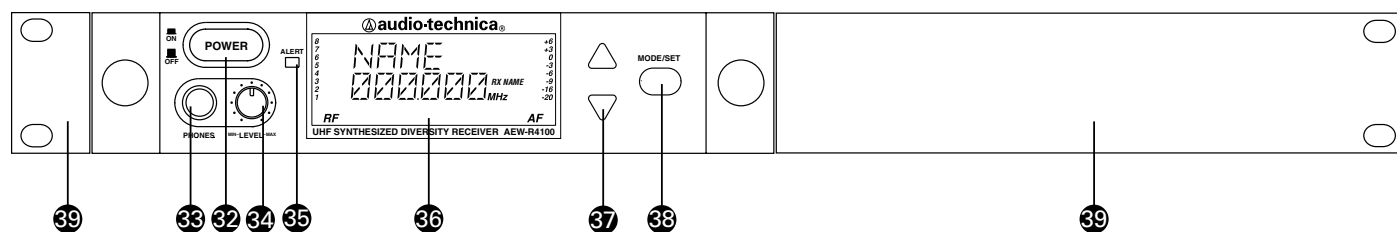
28 LINK OUT JACK: Connect the provided cable to this jack with the index mark on the plug aligned toward the screw head to the right of the jack. The receiver with a Link Out and no Link In connection is the last slave in a multi-unit system.

29 AUXILIARY AC OUTLET: An auxiliary AC pass-through outlet and included "jumper" power cordset simplify making power connections to an array of AEW-R5200's. Maximum output from the auxiliary AC outlet is 5 Amperes.

30 AC POWER INPUT: IEC-type connector for 100V–240V AC, 50/60 Hz power input. No adjustment for mains voltage/frequency is necessary.

31 REAR RACK MOUNT: Mounts are provided at the rear of the side panels to permit attachment to rear rack rails in racks so equipped. The additional support is especially helpful when equipment is transported.

Fig. E AEW-R4100 Receiver Front Panel



Front Panel Controls and Functions (Fig. E)

32 POWER SWITCH: Press the power switch to turn the receiver on. After a short power-up sequence, the display shows the operating frequency and the alert light is illuminated (if no active transmitters are present on this frequency). The receiver may also display a system position (i.e., "MASTER", "SLV-#") or an assigned transmitter or receiver name (if this feature has been set up—the display recalls the setting from the last time power was applied). Refer to page 13 on setting up receiver names or page 18 on setting up transmitter names.

33 HEADPHONE OUTPUT: 1/4" (6.3 mm) TRS ("stereo") phone jack provides monitoring of the receiver's output. Plug in either a mono or "stereo" headphone to monitor receiver signal.

Note: On an operating unit, be careful not to press the Power switch accidentally when inserting a headphone jack or adjusting the headphone level. In addition to interrupting receiver operation, even a momentary loss of power to a single unit within a linked multi-channel system will cause the loss of linking connection to the affected receiver and all those "downstream" from it.

34 HEADPHONE LEVEL CONTROL: This control is used to set a comfortable listening level for the headphone jack; it does not affect receiver audio output. Turn the control clockwise to increase the level.

35 ALERT INDICATOR: The alert light illuminates to indicate to the user that something needs attention; for example, the transmitter batteries are low, or the transmitter is muted or turned off.

The Alert Indicator lights:

- (a) When the receiver is in the Mute mode,
- (b) When no RF signal is received from the transmitter,
- (c) When only one or two RF signal-strength bars are on,
- (d) When the transmitter is in the Mute mode,
- (e) When audio modulation level from the transmitter is close to the clipping point (AF +6 bar), or
- (f) When the "LOW BAT" warning appears in the LCD (transmitter battery is weak).

36 LCD WINDOW: Liquid Crystal Display indicates control settings and operational readings. It is also used in conjunction with the Mode/Set and Up/Down arrow buttons to change user-configurable functions. See Figure G on page 12 for details.

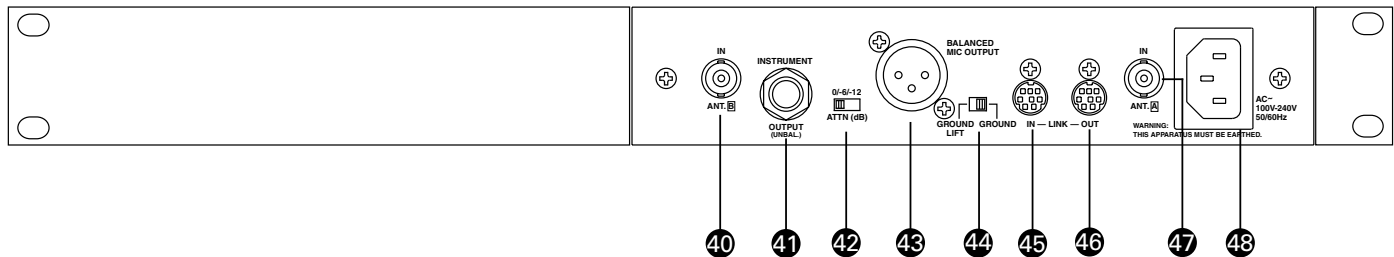
37 UP/DOWN BUTTONS: Press Up or Down arrow button, in conjunction with the Mode/Set button, to scroll through the function menu in Menu mode or through the available choices for a given function in Edit mode. When the receiver is in normal operating mode, the Up/Down arrow buttons scroll through Receiver Address ("MASTER" or "SLV-#"), Receiver Preset Name, or Transmitter Preset Name.

38 MODE/SET BUTTON: Use in conjunction with the Up/Down arrow buttons to step through menus, choose operating frequency and select receiver function options. The Mode/Set button has different functions depending on the status of the receiver. Two distinct operations are associated with this button:

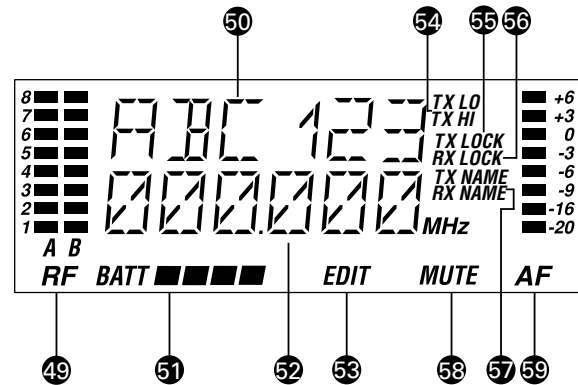
Touch: A momentary press of the Mode/Set button. It is used to enter Menu mode, to enter Edit mode, or to Escape without making any changes to current settings.

Hold: A press and hold (about two seconds) of the Mode/Set button. It is used to accept a new setting when the receiver is in Edit mode or to save the current settings to one of the five user-defined name presets or the internal memory location ("NAME?").

39 MOUNTING ADAPTERS: For mounting the receiver in any standard 19" rack. Attach to the receiver with the screws supplied. (Use an optional AT8628a joining-plate kit to mount two AEW-R4100 receivers side by side.)

Receiver Controls and Functions (Continued)**Fig. F AEW-R4100 Receiver Rear Panel****Rear Panel Controls and Functions (Fig. F)**

- 40 ANTENNA INPUT JACK: BNC-type antenna connector for Tuner "B." Attach the antenna directly, or extend it with a low-loss antenna cable. See the "Antennas" section on page 7 for more details.
- 41 INSTRUMENT OUTPUT JACK: 1/4" phone jack. Can be connected to an aux-level input of a mixer, guitar amp or tape recorder. On the AEW-R4100, this is an unbalanced TS phone jack.
- 42 AF OUTPUT ATTENUATOR: Three-position switch adjusts audio output level of both audio output jacks with attenuation of 0 dB, -6 dB or -12 dB.
- 43 MIC OUTPUT JACK: XLRM-type connector. A standard 2-conductor shielded cable can be used to connect the receiver output to a balanced microphone-level input on a mixer or integrated amplifier.
- 44 GROUND LIFT SWITCH: Disconnects the ground pin of the balanced output jack (43) from ground. Normally, the switch should be to the right (ground connected). If hum caused by a ground loop occurs, slide switch to the left (ground lifted).
- 45 LINK IN JACK: Connect provided cable to this jack with the index mark on the plug aligned toward the screw head above the jack. The receiver with a Link In and no Link Out connection is the "Master" unit.
- 46 LINK OUT JACK: Connect provided cable to this jack with the index mark on the plug aligned toward the screw head above the jack. The receiver with a Link Out and no Link In connection is the last unit in a multi-unit system.
- 47 ANTENNA INPUT JACK: Connector for Tuner "A." Attach the antenna directly, or extend it with a low-loss antenna cable.
- 48 AC POWER INPUT: IEC-type connector for 100V-240V AC, 50/60 Hz power input. No adjustment for mains voltage/frequency is necessary.
- 49 RF SIGNAL LEVEL INDICATOR: Shows the strength of the RF signal received from the transmitter. Also indicates which Tuner (A or B) has the better reception and is in operation. When the METER HOLD function is on, the lowest-level RF signal received from the transmitter is indicated by a flashing bar.
- 50 ALPHANUMERIC DISPLAY: Shows Receiver Name (57), Transmitter Name (57), or Link Address (MASTER, or SLV and the slave number). The factory setting displays "DEF" in Receiver Name mode ("RX NAME"). Once the settings have been changed, the unit will display the last setting and mode selected. Also flashes the "LOW.BAT" warning when the associated transmitter's batteries are weak.

Fig. G Receiver LCD Window

- 51 TRANSMITTER BATTERY INDICATOR: Displays a maximum of four bar segments, with four bars indicating full power.
- 52 FREQUENCY DISPLAY: Indicates the current frequency setting in MHz.
- 53 "EDIT": Appears and flashes when the receiver is in edit mode.
- 54 TRANSMITTER RF POWER DISPLAY: Indicates either "TX LO" or "TX HI".
- 55 "TX LOCK": Appears when the transmitter is in one of its three lock settings (ALL.LOC, MUT.LOC or PWR.LOC).
- 56 "RX LOCK": Appears when the receiver is in one of its three lock settings (ALL.LOC, PC.LOC or RX.LOC).
- 57 TX/RX NAME: Indicates whether the transmitter name or the receiver name is displaying in the top line of the LCD display.
- 58 "MUTE": Appears when the receiver or transmitter is muted, when the receiver is not receiving an audio signal, or when the receiver is externally muted by use of the EXTERNAL MUTE jack.
- 59 AF LEVEL INDICATOR: Shows the audio modulation level of the received signal. When the METER HOLD function is on, the bar corresponding to the highest level reached will stay lit.

Changing receiver settings

Touch: A momentary press of the Mode/Set button. It is used to enter Menu mode, to enter Edit mode, or to Escape without making any changes to current settings.

Hold: A press and hold (about two seconds) of the Mode/Set button. It is used to accept a new setting when the receiver is in Edit mode or to save the current settings to one of the five user-defined name presets or the internal memory location ("NAME?").

Enter Menu mode

With the receiver in the normal operating mode, *touch* the Mode/Set button. The top line of the receiver display shows "FRQ" preceded by one, two, or three asterisks.

Touch the Up/Down arrow buttons to scroll through the available functions that may be changed. (See the chart on page 15 for a list of functions and display indication.) **Note** that the display's lower line indicates the current setting for a given function.

Enter Edit mode

When the function to be edited is displayed, *touch* the Mode/Set button. The small word "EDIT" flashes in the bottom of the display, indicating Edit mode.

Touch the Up/Down arrow buttons to scroll through the available choices for the function, stopping on the desired choice.

Hold the Mode/Set button to accept the new choice. "STORED" appears in the display when the choice is accepted. The receiver then reverts to Menu mode.

Continue this process until all desired function-setting changes are complete.

Note: To escape from Edit mode without making any changes, *touch* the Mode/Set button. "ESCAPE" appears briefly in the display, and the receiver reverts to Menu mode.

Quitting and saving changes

The receiver has several methods of saving function settings. Each receiver has five loadable user presets that may be given individual names (up to six characters), along with a special, non-loadable memory location called "NAME?" that can store the most recent settings until they are changed.

To save a set of receiver function settings, use the Up/Down arrow buttons to scroll until the display shows "QUIT." The procedure for saving the current settings depends upon the desired location:

Saving to the "NAME?" location

If the current receiver settings do not need to be identified with a name, the special "NAME?" location may be used to store them. As with the "last number redial" function on a telephone, these settings remain stored in the receiver even if power is turned off. They disappear only if one of the settings is modified.

To store settings in the "NAME?" location, *touch* the Mode/Set button. The display shows "NAME?" for the receiver name.

Saving updated settings to the currently loaded user "PRESET#" location

To update the receiver settings in the currently loaded user preset that is already named, *hold* the Mode/Set button. The display shows "STORE XXXXXX" (where XXXXXX indicates the preset's name).

Hold the Mode/Set button a second time. The first character of the name flashes.

Hold the Mode/Set button a third time. The display briefly shows "STORED", and the receiver reverts to normal operation.

Saving to a different user PRESET# location

To store settings to a different user preset location, *hold* the Mode/Set button. The receiver shows "STORE XXXXXX" (where XXXXXX indicates the loaded preset's name).

Touch the Up/Down buttons to scroll to another preset location (the display shows the user-defined name for each location, or "PRESET#" if no name has been assigned).

At the desired preset location, *hold* the Mode/Set button. The first character of the name becomes the cursor and flashes.

Touch the Up/Down arrow buttons to scroll through the characters until the desired character is displayed. *Touch* the Mode/Set button to accept the character and advance to the next character. To advance the cursor without changing the character, *touch* the Mode/Set button.

After setting the last character, *hold* the Mode/Set button to store the name and revert to normal operation. Holding the Mode/Set button at any time during the naming process while the cursor is flashing will store the setting and return the receiver to normal operation.

Note: To escape the naming process, *touch* the Mode/Set button repeatedly until the last character is flashing, and then *touch* the Mode/Set button again to escape. At the flashing "ESCAPE" display, *touch* the Mode/Set button to go back to the beginning of the name, or *hold* the Mode/Set button to return to "QUIT."

Note: While the receiver is in Edit mode, no action (no buttons pressed) for approximately 30 seconds causes the receiver to revert to Menu mode.

While the receiver is in Menu mode, no action for approximately 30 seconds causes the receiver to revert to normal operating mode. Any setting changes stored will remain in the "NAME?" memory location, and the receiver will display "NAME?" because the settings were not saved to a user preset. This will occur even if a user preset was previously loaded.

Receiver Controls and Functions (Continued)**Receiver Menu Functions****Frequency Selection (manual)**

See "Setting Receiver Frequency Manually" on page 21.

Frequency Selection (automatic)

See "Setting Receiver Frequency Using IntelliScan™" on page 22.

Lock

Programmable locks restrict the ability to change receiver settings, reducing the possibility of unauthorized access or unintended changes during performances.

Setting	Description
<i>NO.LOC</i>	Receiver functions and frequency settings can be edited from the receiver's front panel or from an associated computer via an Ethernet connection to a linked AEW-R5200.
<i>ALL.LOC</i>	Receiver functions and frequency settings cannot be edited from the front panel or from a computer via an Ethernet connection to a linked AEW-R5200. <i>ALL.LOC</i> must be changed via the receiver's Menu before other settings can be changed.
<i>PC.LOC</i>	Receiver functions and frequency settings can be edited from the receiver's front panel, but they cannot be edited from an associated computer (via an Ethernet connection to a linked AEW-R5200).
<i>RX.LOC</i>	Receiver functions and frequency settings can be edited from an associated computer (via an Ethernet connection to a linked AEW-R5200), but they cannot be edited from the receiver's front panel.

When any lock condition is applied to a receiver (*ALL.*, *RX.* or *PC.*), the LCD window displays a small "*RX LOCK*" just to the right of the frequency. If an action is attempted that currently is locked out, the LCD will briefly display "*LOCKED*", then return to its previously displayed contents.

Note: Locks remain in place even when receiver power is turned off. However, locks may be removed by using the Menu.

Antenna Power

This function turns on the 12V AC antenna power for use with powered antennas or accessories.

Squelch

The Artist Elite Series employs a unique digital Tone Lock™ squelch system that provides enhanced rejection of interference. In addition to providing highly effective control of unwanted noise, the Tone Lock signal from the transmitter also conveys data with the transmitter's name (Tx Name), battery condition, mute status and lock status back to the receiver for display. In addition to displaying in the receiver's LCD window, the data are also displayed on an Ethernet-connected computer.

The squelch level is adjustable in fifteen 2 dB steps, providing a 30 dB range. Increasing the squelch level – also called "tightening the squelch" – can cause a reduction in usable range of the wireless transmitter, so use the lowest value that reliably mutes the unwanted RF signals. (If interference is a problem, first consider trying a different frequency, either manually or by scanning.)

Meter Hold

When activated ("*METER HOLD*"), this function permits the bar meters in the LCD window to capture and display the highest-level "*AF*" audio modulation (a solid bar) and the lowest-level "*RF*" signal (a flashing bar) received from the transmitter. This is particularly useful when setting up the system initially, performing a sound-check, or diagnosing operating problems. The default setting is Off ("*METER NORMAL*").

When the Meter Hold is On, it is possible to reset it – to obtain a new set of RF and AF readings – without turning it off-and-on using the Menu/Edit functions. Simply press the transmitter's Power/Mute button once (to mute the transmitter) and wait until the receiver's Alert light comes on, indicating the Mute condition. Then press the transmitter's Power/Mute button once again, to un-mute the transmitter. After the Alert light goes out, a new set of min/max RF/AF readings will be indicated on the bar meters. (Note that, depending upon the digital updating-and-confirming sequence of the Mute condition data from the transmitter, it can take from a few to many seconds for the Alert light condition to change. The Meter Hold readings are not reset until the Alert light has turned on, then off.)

Note: Any or all of these receiver functions may be stored to, or loaded from, one of the five user presets.

Using "PRESET" Store and Recall

There are two aspects to Preset operation: Storing a particular collection of settings for future use ("*STORE*"), and recalling a stored collection of settings ("*LOAD*"). All Artist Elite receivers and transmitters permit the storing and recalling of up to five user-defined Preset combinations—with customized names, if desired—plus the recalling of the factory-defined Default ("*DEF*") settings.

While the standard Preset names ("*PRSET1*" – "*PRSET5*") can be used, customized receiver and transmitter identification can simplify system operation, especially in larger systems. For example, a guitar channel's Rx Name could be "*GUITAR*", while the transmitters for the performer's two different guitars could be named "*GTR-1*" and "*GTR-2*".

To store Preset configurations:

1. Touch the Mode/Set button once to move to Menu mode.
2. Touch the Up arrow twice to move to "*PRESET*" in the LCD window. (The second line of LCD will show currently loaded presets.)
3. Touch the Mode/Set button once. "*LOAD*" (or "*STORE*") appears in the LCD.
4. Touch the Up or Down arrow once, if needed, to change the selection to "*STORE*."
5. Hold the Mode/Set button until "*PRSET1*" (or the name of the currently loaded Preset) appears on the second line of the LCD.
6. If desired, touch the Up or Down arrow to cycle through the available choices: "*PRSET1*" through "*PRSET5*" (or their previously changed names).
7. Accept or enter a name for the Preset:
 - a1. To accept the standard name "*PRSET1*" – "*PRSET5*" (or previously stored name) for a new Preset configuration and to update (overwrite) any previously stored configuration choices:
 - At the desired choice, hold Mode/Set until the first character blinks, giving an opportunity to change the name.
 - To accept the standard (or existing) name, hold the Mode/Set button again until "*STORED*" appears in the window. This stores the standard or existing Preset name with the associated function choices and returns the unit to normal operation. The name of the stored preset will appear in the top line of the display.

- b. To enter a custom name for a Preset:
- b1. At the desired choice, hold the Mode/Set button. The first character blinks.
 - b2. Using the Up or Down arrow, move through the available characters (see box below) until the desired character is reached. Touch an arrow button for single steps, or hold it down to scroll through the characters at increasing speed.
 - b3. Touch the Mode/Set button once to accept the first character and move to the second character, which now is blinking. Use an Up/Down arrow button to find the desired second character; touch the Mode/Set button once to accept it and move to the third position. Repeat this selection process until the character for the sixth position has been selected.
 - b4. Once the sixth character has been selected as desired, hold the Mode/Set button until "STORED" appears in the window. This stores the custom Name with the associated function choices and returns the unit to normal operation. The display shows the custom name in the top line.

Note: If a correction or change is desired while entering characters, simply touch the Mode/Set button once when the sixth (last) character has been reached. The window will flash "ESCAPE." Touch the Mode/Set button once more to start the name-entry process over at the first character. (To leave any characters as they are, simply touch Mode/Set once to skip over them.)

Available receiver Name character choices:

A ...through... Z,
 _ (underscore) ... (space) ...
 [(left bracket) ...] (right bracket),
 * ... + ... - ... / ,
 0 ...through... 9,
 | ... < ... > ... ?

To load (recall) a Preset:

1. Touch the Mode/Set button once to move to Menu mode.
2. Touch the Up arrow twice. LCD top line shows "PRESET."
3. Touch the Mode/Set button once. "LOAD" (or "STORE") appears in the LCD.
4. If needed, touch the Up arrow once to change the selection to "LOAD."
5. Hold the Mode/Set button. The name of the currently loaded Preset appears on the second line of the LCD.
6. Touch the Up or Down arrow to cycle through the available choices, stopping on the desired choice.
7. Hold the Mode/Set button until "LOADED" appears briefly in the LCD. The receiver reverts to normal operation with the selected preset's functions loaded. The top display line indicates the loaded preset and the bottom line the current frequency.

To revert to factory-default values:

1. Touch the Mode/Set button once to move to Menu mode.
2. Touch the Up arrow twice. "PRESET" shows in the LCD window.
3. Touch the Mode/Set button once. "LOAD" (or "STORE") appears in the LCD.
4. Touch the Up arrow once, if needed, to change the selection to "LOAD."

5. Hold the Mode/Set button. The name of the currently loaded Preset appears on the second line of the LCD.
6. Touch the Up/Down arrow buttons to cycle through the available choices until "DEF" appears in the display.
7. Hold the Mode/Set button to load the factory default settings. "LOADED" appears briefly in the LCD. The receiver then reverts to normal operation at factory-default values. "DEF" appears in the upper line of the LCD.

Note: Loading the default setting will also revert the receiver frequency to the lowest frequency in the band.

Table 1 Receiver Functions

Function Menu	Default Value	Choices (Edit)▲▼	Wrap-around*
▲▼ Frequency	Lowest in band	up to 996 discrete frequencies	Yes
▲▼ Scan**/***	No value	Scan start	-
▲▼ Lock	NO.LOC	NO.LOC ALL. LOC PC.LOC RX.LOC	Yes
▲▼ Antenna** Power	OFF	OFF ON	Yes
▲▼ Squelch	- (one bar)	15 steps, 2 dB each	No
▲▼ Meter	NORMAL	NORMAL HOLD	Yes
▲▼ Preset	PRESET	Press once, then select LOAD or STORE	Yes
▲▼ LOAD:	DEF	DEF (default), PRSET1 through PRSET5	Yes
▲▼ STORE:	PRSET1	PRSET1 through PRSET5	Yes
▲▼ Quit (exit Menu)	QUIT	Press Mode/ Set once to exit	-

* Continue in the same Up/Down direction and choices "wrap around" to the other end of the range.

** AEW-R5200: Scan and Antenna Power selections in LCD menu on Channel 1 only.

***Scan selection is not available when the receiver has been linked as a slave unit.

Transmitter Setup

Battery Selection and Installation

Each transmitter uses two 1.5V AA batteries, not included. Alkaline type is recommended. Always replace both batteries. Make certain the transmitter power is Off before replacing batteries.

UniPak® Transmitter Battery Installation

1. Open the battery compartment door as follows: Slide door lock down to the unlocked position. Pinch the release arrows together to open the compartment. (*Figure H*)
2. Observe correct polarity as marked on the metal contacts on the door and carefully insert two fresh 1.5V AA alkaline batteries (*Figure J*).
3. Close the door, making certain the latch clicks securely in place.
4. Slide the door lock up to the locked position.

Fig. H

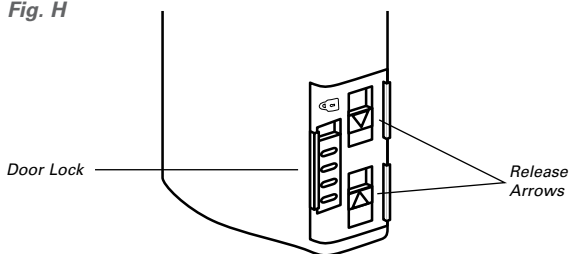


Fig. J

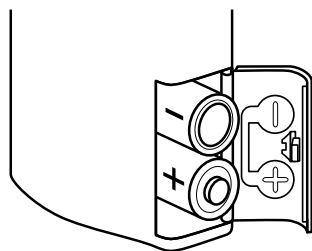


Fig. K

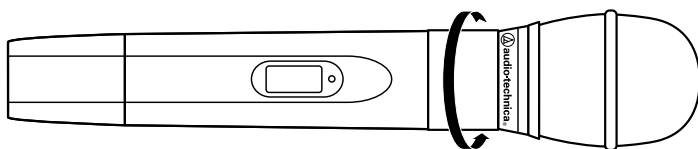


Fig. L

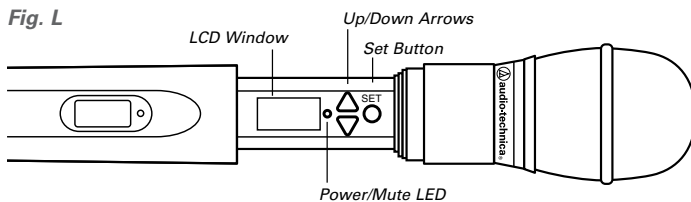
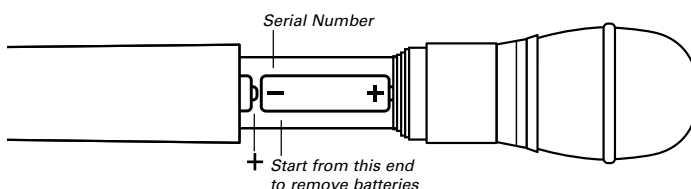


Fig. M



Handheld Transmitter Battery Installation

1. While holding the lower body cover (near the LCD window), grasp the upper part of the transmitter body just below the grille and unscrew it at least four complete turns (*Figure K*); then slide the lower body cover down until it stops (*Figure L*). Once the cover has been lowered, turn the transmitter over to reveal the battery compartment on the side opposite the LCD window.
2. Observe correct polarity as marked inside the battery compartment and carefully insert two fresh 1.5V AA alkaline batteries (*Figure M*). Insert the first battery and slide it down. Then insert the second battery, bottom first, into the space remaining. Make certain the batteries are fully seated in the battery compartment.
3. Slide the lower body cover back up the body, then screw the housing together. Do not overtighten.

Note: Remove batteries from the handheld transmitter starting at the bottom (– end) of the top battery (*Figure M*). The top (+ end) of the top battery is captured in a recess and will not come straight out.

Battery Condition Indicator

After the batteries are installed, turn the power on by pressing and holding the Power/Mute button. The small dual-color Power/Mute LED (see *Figure P/Q* on page 17/18.) should light and the LCD window should come on. If this does not happen, the batteries are installed incorrectly or they are dead. The transmitter's "fuel gauge" battery indicator displays a maximum of four bar segments. When the LCD flashes "LOW.BAT", the batteries should be replaced immediately to ensure continued operation. (The receiver also displays the transmitter's battery condition in the LCD window with bar segments; the Alert indicator and a flashing "LOW.BAT" come on to warn of a low-battery condition.)

UniPak Transmitter Input Connection

Connect an audio input device (microphone or guitar cable) to the audio input jack on the transmitter. A number of Audio-Technica professional microphones and cables are available separately, pre-terminated with a UniPak input connector. The cable connector latches automatically when inserted into the transmitter jack. To unlatch and remove the connector, simply pull up on the connector's knurled metal collar.

UniPak Transmitter Antenna

The AEW-T1000a transmitter includes two field-replaceable antennas. A flexible-wire antenna is supplied mounted on the transmitter, while a separate short, helical antenna is supplied with the accessories. Either antenna simply screws into the transmitter's antenna fitting. Check the installed antenna occasionally to make certain it is snugly attached (only finger-tight). The helical antenna is more convenient physically but may not have the operating range of the wire antenna. The wire antenna should extend, at its full length, from the transmitter. If the received signal is marginal, experiment with different transmitter positions on your body or instrument; try the wire antenna; or try repositioning the receiver. Do not attempt to modify either transmitting antenna. Replace them only with the same parts, available from the Audio-Technica Service Department.

Handheld Transmitter Antenna

The antenna for the handheld mic/transmitter is in the black, non-metallic section at the bottom of the unit (see **Figure Q** on page 18).

Note: For best results, hold the mic/transmitter naturally, around its painted metal case. Holding or otherwise covering the antenna housing may reduce operating range.

Transmitter Controls and Functions

Refer to **Figures H** through **Q** for an overview of transmitter functions and controls.

Touch: A momentary press of the Set button.

Hold: A press and hold (about two seconds) of the Set button.

LCD Window

The backlit Liquid Crystal Display presents a great deal of setup and operating information clearly and conveniently (**Figure M**). The LCD in the transmitters is designed for greatest contrast and best viewing with the window rotated somewhat away from the viewer (about 30 degrees), not straight-on, for a more convenient holding/viewing position.

Power/Mute Button

The transmitters have a combination Power and Mute switch (**Figure P/Q**). When used in combination with the programmed choices explained below, the various functions available to the transmitter user may be tailored to fit personal preferences or particular situations.

Power On/Off

To turn the transmitter on, *hold* the Power/Mute button until the dual-color Power/Mute LED lights green and the backlit LCD window comes on (about 1–2 seconds). The operating frequency shows in the window after the power-up sequence.

To turn the transmitter off, *hold* the Power/Mute button again, until the dual-color Power/Mute LED and the LCD window are extinguished (about 1–2 seconds). The LCD window shows “PWR. OFF” before shutdown.

Mute On/Off

When the transmitter is muted, it produces RF with no audio signal modulation. When the transmitter is un-muted, it produces both RF and audio.

To mute the transmitter (cut off the audio, but continue the RF output), *touch* the Power/Mute button once. The Power/Mute LED turns red, and a small “MUTE” appears in the LCD window, just below the frequency (**Figure N-2**).

To un-mute the transmitter (restore the audio), *touch* the Power/Mute button once again. The Power/Mute LED turns green, and the “MUTE” disappears from the LCD window.

UniPak Transmitter Mounting Clip

The UniPak transmitter’s mounting clip may be installed with the case positioned either “up” or “down,” depending upon which is preferred for the particular application. To turn the clip around, spring the ends of the clip out of the two holes on the sides of the transmitter case (**Figure P**) and reinstall it facing in the opposite direction.

Fig. N

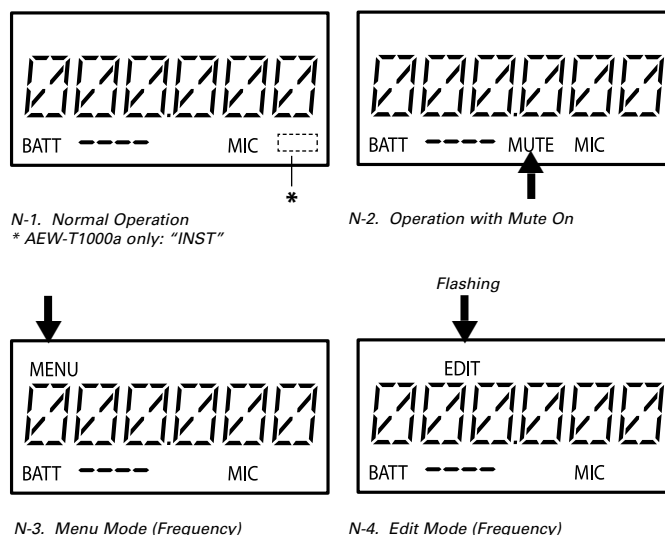


Fig. P

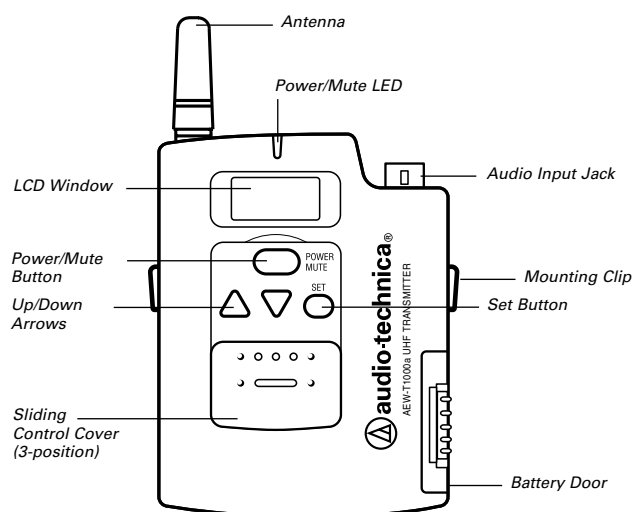
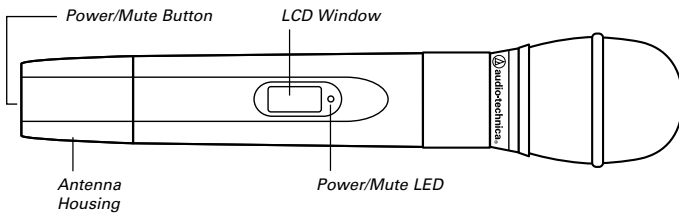


Fig. Q



Power/Mute Locks

Setting	Description
<i>NO.LOC</i>	The normal Power and Mute functions are fully operational.
<i>ALL.LOC</i>	Power is locked On and Mute is locked Off when “ <i>ALL.LOC</i> ” is applied. When in the <i>ALL.LOC</i> mode, the transmitter may be turned off by (1) re-accessing the .LOC Menu and changing the setting, (2) pressing and holding the Up arrow button <i>and</i> the Set button <i>at the same time</i> , until the power goes off, or (3) removing and re-installing the batteries. When the transmitter is turned on again, it will power up in the <i>NO.LOC</i> mode.
<i>MUT.LOC</i>	In this mode, the audio cannot be muted (Mute function is locked Off). The Power functioning is unaffected. “Mute” Note: If <i>ALL.LOC</i> or <i>MUT.LOC</i> is applied while the transmitter is muted, pressing the Power/Mute button once will return the transmitter to un-muted operation; thereafter the Mute function is disabled (Mute Off) until the .LOC setting is changed again.
<i>PWR.LOC</i>	Power is locked On when “ <i>PWR.LOC</i> ” is applied. The Mute functioning is unaffected. When in the <i>PWR.LOC</i> mode, the transmitter may be turned off by: (1) Re-accessing the .LOC Menu and changing the setting, (2) Pressing and holding the Up arrow button <i>and</i> the Set button <i>at the same time</i> , until the power goes off, or (3) Removing and re-installing the batteries. When the transmitter is turned on again, it will power up in the <i>NO.LOC</i> mode. Note: Only the <i>ALL.LOC</i> or <i>PWR.LOC</i> Power function will change when batteries are removed; <i>NO.LOC</i> and <i>MUT.LOC</i> settings remain stored in memory.

If an action is attempted that currently is locked out, the transmitter LCD will briefly display “*LOCKED*”, then return to its previously displayed contents.

Whenever any lock condition is applied to a transmitter, its associated receiver will display a small “*TX LOCK*” in the LCD window, just to the right of the frequency.

Audio Input Selector

The UniPak® body-pack transmitter provides input connections for both low-impedance (Lo-Z) microphones and high-impedance (Hi-Z) instruments. A wide range of Audio-Technica Wireless Essentials® microphones and cables is available pre-terminated with the appropriate professional latching connector.

Selection of the desired input – microphone or instrument – is made through the function menu. Depending upon the input selected, a small “*MIC*” or “*INST*” will continue to show in the LCD window, just below the frequency. (In the handheld transmitters, “*MIC*” will always show in the LCD window.)

Setting Audio Input Level

AEW-T1000a UniPak®: A 10-position audio input gain setting, selected through the function menu, serves to match the audio input level to the transmitter for best modulation with minimum distortion. Available choices are +12 dB to –6 dB in 2 dB steps. The default value is +6 dB.

AEW-T4100a and AEW-T6100a Dynamic Handhelds: A 4-position audio input gain setting, selected through the function menu, serves to match the audio input level to the transmitter for best modulation with minimum distortion. Available choices are +12 dB to –6 dB in 6 dB steps. The default value is +6 dB.

AEW-T3300a and AEW-T5400a Condenser Handhelds: A 3-position audio input gain setting, selected through the function menu, serves to match the audio input level to the transmitter for best modulation with minimum distortion. Available choices are +12 dB, +6 dB and 0 dB. The default value is +6 dB. In addition, a mechanical pad switch on the condenser capsule (inside the screw-on wire mesh grille) can provide another 6 dB of attenuation. For best performance, adjust the input level using the function menu choices, keeping the capsule’s mechanical switch at 0 dB. If more audio attenuation is needed than the menu provides, then set the capsule’s pad switch to –6 dB.

For all transmitters: Select the highest audio level setting that does not result in over-modulation with the highest audio/ instrument input levels (an AF indication on the receiver no higher than “+3”); watch the receiver’s “AF” meter “+6” indication and the Alert light to make certain they are not triggered often by the highest audio levels.

The transmitter’s dual-color Power/Mute LED, which is on during normal operation, will blink off if the peak audio input reaches overload level.

Preset/Default Settings

A "PRESET" selection in the menu permits the storing of up to five different user-definable configurations. Customized names, using letters, numbers and symbols, can also be created and stored for Presets 1–5. In addition, a Default ("DEF") choice permits returning all transmitter functions to their factory-default settings.

To store Preset configurations:

1. Touch the Set button once to move to Menu mode.
2. Touch the Up arrow twice to move to "PRESET" in the LCD window.
3. Touch the Set button once and "LOAD" (or "STORE") will appear in the LCD.
4. Touch the Up or Down arrow once, if needed, to change the selection to "STORE."
5. Hold the Set button until "STORE" changes to "PRSET1" (or the name of the currently loaded Preset).
6. If desired, touch the Up or Down arrow to cycle through the available choices: "PRSET1" through "PRSET5" (or their previously changed names).
7. Accept or enter a name for the Preset:
 - a. To accept the standard name (PRSET1 – PRSET5, or the previously stored name) for a new Preset configuration and to update (overwrite) any previously stored configuration choices:
 - a1. At the desired Preset, hold the Set button until the first character blinks.
 - a2. Hold the Set button again until "STORED" appears in the window. This stores the standard Preset name with the associated function choices and returns the transmitter to normal operation.
 - b. To enter a custom name for a Preset:
 - b1. At the desired Preset, hold the Set button until the first character blinks.
 - b2. Using the Up or Down arrow, move through the available characters (see box below) until the desired character is reached. Touch an arrow button for single steps, or hold it down to scroll through the characters at increasing speed.
 - b3. Touch the Set button once to accept the first character and move to the second character, which now is blinking. Use an Up/Down arrow to find the desired second character; touch the Set button once to accept it and move to the third position. Repeat this selection process until the character for the sixth position has been selected. (It is not necessary to change or step through all six characters before storing the result. At any point in the process, simply hold the Set button until "STORED" appears in the window.)
 - b4. Once the sixth character has been selected as desired, hold the Set button until "STORED" appears in the window. This stores the custom Name with the associated function choices and returns the transmitter to normal operation.

Note: If a correction or change is desired while entering characters, simply touch the Set button once when the sixth (last) character has been reached. The window will flash "ESCAPE." Touching the Set button once more will start the name-entry process over at the first character. (To leave any characters as they are, simply touch the Set button once to skip over them.)

Available transmitter Name character choices (listed in the Up-arrow direction):

A ...through... Z,

_ (underscore) ... (space),

[(left bracket) ...] (right bracket),

* ... + ... - ... /,

0 ...through... 9,

| ... < ... > ... ?

To load (recall) a Preset:

1. Touch the Set button once to move to Menu mode. (The window changes to frequency, if Name had been displayed.)
2. Touch the Up arrow twice to move to "PRESET" in the LCD window.
3. Touch the Set button once. "LOAD" (or "STORE") appears in the LCD.
4. If needed, touch the Up or Down arrow once, to change the selection to "LOAD."
5. Hold the Set button until "LOAD xxxxxx" (the current Preset) appears in the LCD.
6. Touch the Up or Down arrow to change the selection from "xxxxxx" to the desired Preset.
7. Hold the Set button until "LOADED" appears briefly in the LCD. The transmitter reverts to normal operation with the selected preset's settings loaded. To toggle between transmitter name and frequency, touch an Up or Down arrow button.

To revert to factory-default values:

1. Touch the Set button once to move to Menu mode.
2. Touch the Up arrow twice. "PRESET" shows in the LCD window.
3. Touch the Set button once. "LOAD" (or "STORE") appears in the LCD.
4. Touch the Up or Down arrow once, if needed, to change the selection to "LOAD."
5. Hold the Set button. The current Preset appears in the LCD.
6. Touch the Up or Down arrow buttons to cycle through the available choices until "DEF" appears in the display.
7. Hold the Set button to load the factory default settings. "LOADED" appears briefly in the LCD. The transmitter reverts to normal operation at the default settings.

Note: Loading the default settings resets the transmitter frequency to the lowest frequency in the band.

Table 2 UniPak Transmitter Functions

Function Menu	Default Value	Choices (Edit)▲▼	Wrap-around*
▲▼ Frequency	Lowest in band	up to 996 discrete frequencies	Yes
▲▼ RF Power	RF LOW	RF LOW RF HI	Yes
▲▼ Audio Input Level	+6 dB	-6 dB to +12 dB in 2 dB steps	No
▲▼ Power/Mute Locks	NO.LOC	NO.LOC ALL. LOC MUT. LOC PWR. LOC	Yes
▲▼ Input Select	MIC	15 steps, 2 dB each	No
▲▼ Preset Configurations	PRESET	LOAD STORE	Yes
▲▼ LOAD:	DEF	DEF (default), PRSET1 through PRSET5	Yes
▲▼ STORE:	PRSET1	PRSET1 through PRSET5	Yes
▲▼ Quit (exit Menu)	QUIT	Press Set once to exit	-

* Continue in the same Up/Down direction and choices "wrap around" to the other end of the range.

Table 3 Handheld Transmitter Functions

Function Menu	Default Value	Choices (Edit)▲▼	Wrap-around*
▲▼ Frequency	Lowest in band	up to 996 discrete frequencies	Yes
▲▼ RF Power	RF LOW	RF LOW RF HI	Yes
▲▼ Audio Input Level Dynamic	+6 dB	-6 dB 0 dB +6 dB +12 dB	No
Condenser**	+6 dB	0 dB +6 dB +12 dB	No
▲▼ Power/Mute Locks	NO.LOC	NO.LOC ALL. LOC MUT. LOC PWR. LOC	Yes
▲▼ Input Select	MIC	15 steps, 2 dB each	No
▲▼ Preset Configurations	PRESET	LOAD STORE	Yes
▲▼ LOAD:	DEF	DEF (default), PRSET1 through PRSET5	Yes
▲▼ STORE:	PRSET1	PRSET1 through PRSET5	Yes
▲▼ Quit (exit Menu)	QUIT	Press Set once to exit	-

* Continue in the same Up/Down direction and choices "wrap around" to the other end of the range.

** A mechanical switch on the condenser handheld transmitter can provide an additional 6 dB of attenuation. See page 18.

System Operation

Artist Elite® wireless receivers and transmitters are extremely versatile components with many operating features and functions, some of which are not obvious. As a result, we suggest the following approaches to assure a “comfort level” with any new equipment:

1. Begin using a single receiver/transmitter pair at their Default (“DEF”) settings, to become familiar with equipment functions and operation before doing any customizing. (If the Default frequency is not usable in your area, change the frequency to one that is suitable.)
2. Before installing/starting up a large multi-channel system, explore the functions and operation of only two or three receiver/transmitter pairs together.

The details of setting up and operating a multi-channel system vary greatly in complexity, depending upon the number of receivers and nature of the system. Because the feature-rich nature of AEW units can greatly increase this complexity, we suggest starting with a simpler, straightforward setup and use to become familiar with the equipment and its capabilities.

Single AEW-R4100 receiver system: Begin using a receiver and transmitter at their Default (“DEF”) settings, to become familiar with equipment functions and operation before doing any customizing. (If the Default frequency is not usable in your area, manually change only the frequency to one that is suitable.)

Single AEW-R5200 receiver system (two channels): Start out using only Channel 1, treating this the same as the single AEW-R4100 above.

Multiple-receiver system with link cables only: The link cables provide data and control between receivers. The IntelliScan™ feature scans for clear channels and assigns non-conflicting frequencies to all linked receivers. (If IntelliScan is not used, the receiver frequencies may all be set individually/manually, as with any standard receiver, selecting frequencies that are within the same IntelliScan groups listed on page 25.)

Multiple-receiver system with Ethernet-connected computer interface: Refer to the separate Artist Elite Wireless Control Interface manual for setup and operation of a computer-based system; the Artist Elite Wireless Control Interface manual is furnished with 5000 Series wireless systems both as a printed document and on CD in PDF form. Basic hardware aspects of the receivers, and all transmitter setup/operating information, are in the manual you are now reading.

Turning on the Receiver

Turn down the AF Level of the mixer or amplifier. Switch on the receiver. Do not switch on the transmitter yet. The Alert indicator and the LCD window lights up; the normal operation LCD display appears after 1–2 seconds. If any of the bars show in the “RF” bar-graph meters, there may be RF interference in the area. If this occurs, select another frequency as explained below. (If the Meter Hold function has been selected, one of the RF bars in each column will be flashing, indicating the lowest RF levels received.)

Selecting/Setting Receiver Frequency

Selection of the desired operating frequency is made through the function menus. There must be no local interference on that frequency. If the Default frequency (lowest in band) happens not to be usable, the receiver frequency may be set manually, or by using the IntelliScan function.

- Manual frequency selection: Adjust the receiver frequency as detailed in the next section.
- IntelliScan™ frequency selection: The receiver’s IntelliScan function may be employed to select a usable operating frequency automatically, as detailed in the section following on page 22.

Note: Once the receiver frequency is set, the associated transmitter must be set manually to the receiver’s exact frequency. See page 23 for the correct procedure.

Setting Receiver Frequency Manually

Touch: A momentary press of the Mode/Set button. It is used to enter Menu mode, to enter Edit mode, or to Escape without making any changes to current settings.

Hold: A press and hold (about two seconds) of the Mode/Set button. It is used to accept a new setting when the receiver is in Edit mode or to save the current settings to one of the five user-defined name presets or the internal memory location (“NAME?”).

1. *Touch* the Mode/Set button once. “FRQ” appears on the first line of the LCD window with the current frequency setting on the second line. (The receiver is now in Menu mode.)
2. *Touch* the Mode/Set button again. The small flashing word “EDIT” appears at the bottom of the window. (The receiver is now in Edit mode.)
3. Use the Up/Down arrow buttons to change the first three digits (MHz) to the desired frequency. Choose a frequency appropriate for your area, avoiding frequencies with active TV channels. Press either arrow for single steps, or hold down either arrow for rapid cycling through the band. Frequencies “wrap around” to the other end of the range when the top or bottom of the band is reached.
4. *Touch* the Mode/Set button once to set the first three digits to the desired frequency.
5. Use the Up/Down arrow buttons to change the second three digits (kHz) to the desired frequency. Again, be certain to choose a frequency appropriate for your area, avoiding frequencies with active TV channels.
6. To activate this frequency selection, *hold* the Mode/Set button until the word “STORED” appears in the receiver’s window. (If you do not wish to complete this particular selection, just *touch* the Mode/Set button once. The word “ESCAPE” will appear briefly in the window and the receiver will return to the Menu mode.)

Note: The top line of the LCD indicates when frequencies belong to IntelliScan groups. Asterisks (*) are displayed in front of "FRQ" to indicate membership in one of more of the three groups (**Figure R**). See page 25 for frequency group listings.

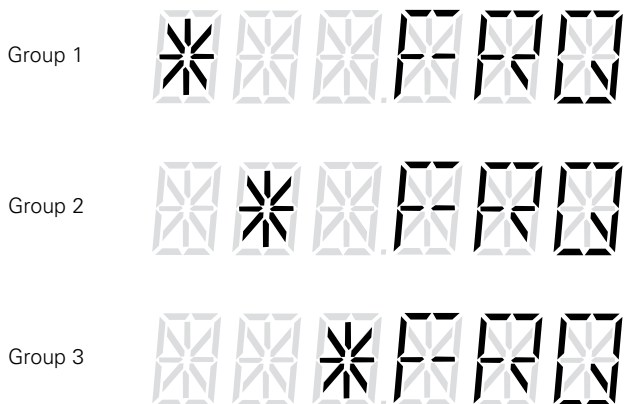
- When finished entering a frequency, press the Up arrow button once. The display reads "QUIT."

There are several ways to quit, depending on whether the current Name is to be retained or the frequency stored to a user preset. See page 13 for help with Quitting and saving changes.

To quickly store the new frequency into the "NAME?" location, touch the Mode/Set button. The receiver shows "NAME?" in the top line and the new frequency in the bottom line.

Note: You must now set the transmitter to the exact same frequency for the system to operate (see page 23).

FIG. R



Note: An asterisk in two or more locations indicates this frequency is in more than one group.

Setting Receiver Frequency Using IntelliScan™

Single-receiver systems (either an AEW-R4100 or an AEW-R5200): Turn down the AF level of the associated mixer or amplifier.

Make certain that any AEW transmitters are turned off. (Other RF-generating devices in the area should be turned on, if possible.)

- Touch the Mode/Set button once to enter the Menu mode. (On an AEW-R5200, use Channel 1 to perform the IntelliScan for both channels.)
- Touch the Down arrow once. The display shows "SCAN."
- Hold the Mode/Set button to start the scan. The second line displays "—" during the scan and then briefly displays "SCAN OK" when the scan is successfully completed.
- The display on the receiver then shows "RESET NAMES." The receiver remains in this state (system is muted) until one of the following steps is completed:
 - To accept and use this frequency with the currently loaded/named preset, touch the Mode/Set button. The LCD briefly displays "STORED" and reverts to normal operation. At this point, the display shows the receiver name/preset currently loaded. (**Note:** This frequency is now stored with the associated named preset and is recalled when that preset is reloaded.)

- To accept and use this frequency and store it in the special "NAME?" location, hold the Mode/Set button. The LCD displays "NAME?" on the top line. (**Note:** Doing this allows a new frequency to be used without affecting previously stored preset data. However, the receiver shows "NAME?" instead of the preset's name.) To store this frequency along with other settings into one of the user presets, refer to the instructions on page 13.

IMPORTANT! If one of the above steps (a or b) is not completed, the receiver will remain in the "RESET NAMES" state indefinitely (system is muted), and it will not automatically back out to normal operating mode.

Multiple-receiver systems: Turn down the AF level of the associated mixer or amplifier. Make certain that any AEW transmitters are turned off. (Other RF-generating devices in the area should be turned on, if possible.)

- Make certain all the receivers are connected (daisy-chained) with link cables. The receiver with only a Link In (no Link Out connection) becomes the Master receiver. (See "Link connections" on page 8.)
- Switch on all the slave receivers first; switch on the Master receiver last. Alternatively, all receivers can be turned on simultaneously, as when using AC power plug strips controlled by a single AC switch. (If an AC power or link connection is interrupted, even briefly, all receivers must be turned off and the power-up sequence repeated to assure complete system control.)
- Using controls on the Master receiver, follow all the steps listed for single-receiver systems to assign compatible frequencies for all receivers by using IntelliScan.
- The display on the Master shows "RESET NAMES", and the display on each slave shows "SCAN" and the new frequency. The receivers remain in this state (system is muted) until one of the following steps is completed to accept the new frequency plan:
 - To accept and use this frequency plan with the currently loaded/named presets, touch the Mode/Set button. If a user preset was previously loaded on the receiver, the LCD briefly displays "STORED" and reverts to normal operation. The LCD then displays the previously loaded user preset or receiver name and the new frequency. (**Note:** This frequency is now stored with the associated named preset and is recalled when that preset is reloaded.) If no user preset was loaded (i.e., the default settings were in effect), the LCD shows "NAME?" and the new frequency.
 - To accept and use this frequency and store it in the special "NAME?" location, hold the Mode/Set button. The LCD displays "NAME?" on the top line. (**Note:** Doing this allows a new frequency to be used without affecting previously stored preset data. However, the receiver shows "NAME?" instead of the preset's name.)

To store this frequency along with other settings into one of the user presets, refer to the instructions on page 13.

Note: These changes affect all linked receivers.

IMPORTANT! If one of the above steps (a or b) is not completed, the Master and all linked slave receivers will remain in the "RESET NAMES" state indefinitely (system is muted) and will not automatically back out to normal operating mode.

Note: A “SCAN ERROR” message may be attributable to one or more of the following:

- The link connection was broken somewhere in the chain.
- The power to one or more of the linked receivers was turned off.
- Not enough available frequencies existed for IntelliScan to assign all receivers a frequency. If IntelliScan cannot locate enough available frequencies, it will set as many as it can on the linked receivers.

Turning on the Transmitter

Turn on the transmitter by holding the Power/Mute button (see *Figure P/Q* on page 17 /18) for a second or two, until the dual-color Power/Mute indicator lights green and the backlit LCD display comes on.

Setting Transmitter Frequency

Touch: A momentary press of the Set button.

Hold: A press and hold (about two seconds) of the Set button.

Note: When setting frequencies on a handheld transmitter, unscrew and slide down the lower body cover, as shown in *Figures K/L* on page 16.

1. *Touch* the Set button once. The small word “MENU” appears above the frequency. *Touch* the Set button again and the small flashing word “EDIT” appears to the right of “MENU.”
2. Use the Up/Down arrow buttons to change the first three digits (MHz) to the desired frequency.
3. *Touch* the Set button once to set the first three digits to the desired frequency.
4. Use the Up/Down arrow buttons to change the second three digits (kHz) to the desired frequency.
5. To activate this frequency selection, press and *hold* the Set button until the word “STORED” appears in the transmitter’s window. (If you do not wish to complete this particular selection, just *touch* the Set button once. The word “ESCAPE” will appear briefly in the window and the transmitter will return to the Menu mode.)
6. When finished entering a frequency, press the Up arrow button once to move to “QUIT.” Then *touch* the Set button once to exit the menu. The word “MENU” in the transmitter window disappears, indicating the return to normal operation.
7. If desired, assign a standard or custom Preset Name at this time as described on page 18 (to store Preset configurations), so this particular configuration can be recalled in the future. If a new name is not assigned, the transmitter will continue to operate on this frequency (and with these settings) until some other change in settings is made.

When the transmitter is switched on and in normal operation, the receiver’s two “RF” signal-level bar meters will display from bottom to top, with more bars indicating increased signal reception. For optimum performance, at least four bars, and preferably five or more bars, on at least one of the RF indicators should be displayed at all times.

Setting Transmitter Audio Input Level

Correct adjustment of transmitter audio input, receiver audio output, and mixer/amplifier input and output levels is important for optimum system performance. Multiple-position audio input gain settings, selected through the function menu, serve to match the audio input level to the transmitter for best modulation and highest signal-to-noise ratio with minimum distortion.

Select the highest setting that does not result in over-modulation with the highest audio/instrument input levels (an AF indication on the receiver no higher than “+3”); watch the receiver’s “AF” bar-graph “+6” indication and the Alert light to make certain that they are not triggered by the highest audio levels.

Also, the transmitter’s dual-color LED Power/Mute indicator, which is on during normal operation, will blink off if the peak audio input reaches overload level.

Available Level Settings

AEW-T1000a UniPak®: Choices are +12 dB to –6 dB in 2 dB steps. The default setting is +6 dB.

AEW-T4100a/6100a Dynamic Handhelds: Choices are +12 dB, +6 dB, 0 dB and –6 dB. The default setting is +6 dB.

AEW-T3300a/5400a Condenser Handhelds: Choices are +12 dB, +6 dB and 0 dB. The default setting is +6 dB. A mechanical switch on the condenser capsule activates a 6 dB pad. For best performance, adjust the input level using the function menu choices first, keeping the capsule’s pad switch at 0 dB. If more audio attenuation is needed, set the capsule’s switch to –6 dB.

RF Power Adjustment

RF power may be set to “RF HI” (35 mW nominal) or “RF LOW” (10 mW nominal) through the function menu. The default setting is “RF LOW.” While the Hi setting normally provides maximum operating range, the Low setting will help extend battery life. The Low setting may also be preferred when using multi-channel systems, or when operating very close to the receiver, to reduce the possibility of interference or overload.

RF Interference

Wireless frequencies are shared with other radio services. According to Federal Communications Commission regulations, “Wireless microphone operations are unprotected from interference from other licensed operations in the band. If any interference is received by any Government or non-Government operation, the wireless microphone must cease operation....” If you need assistance with operation or frequency selection, please contact your regional Audio-Technica customer service representative.

Artist Elite® 4000 & 5000 Series Professional UHF Wireless Systems

Overall System Specifications

UHF Operating Frequencies		
	<i>Frequency Range</i>	<i>Num of Freq</i>
Band C:	541.500 to 566.375 MHz	996
Band D:	655.500 to 680.375 MHz	996
Band E:	795.500 to 820.000 MHz	981
Band F:	840.125 to 864.900 MHz	953
Band G:	721.500 to 746.375 MHz	996
<i>Not all frequencies are available in all areas. Please check with local regulations.</i>		
Minimum Frequency Step	25 kHz	
Modulation Mode	FM	
Maximum Deviation	±40 kHz	
Dynamic Range	115 dB (A-weighted), typical	
Total Harmonic Distortion	< 1% (at 1 kHz, ±20 kHz deviation)	
Operating Range	100 m (300'), typical <i>Open range environment with no interfering signals.</i>	
Operating Temperature Range	-5° C to +45° C 23° F to 113° F <i>Battery and LCD performance may be reduced at very low temperatures.</i>	
Frequency Response	70 Hz to 15 kHz	
Simultaneous Use (recommended)	21 channels per band	
<i>For assistance with multi-band operation or other frequency coordination issues, please contact your regional Audio-Technica customer service representative.</i>		


AEW-R5200 Dual Receiver

Receiving System	True Diversity	
Image Rejection	60 dB typical	
RF Sensitivity	20 dBuV at 70 dB S/N ratio (50 ohms termination)	
Maximum Output Level	XLR, balanced: +4 dBV ¼" (6.3 mm), balanced: +10 dBV	
<i>Both outputs are transformer isolated and balanced.</i>		
Audio Output Attenuator (ATTN)	Three position switch: 0 / -6 / -12 dB	
Headphone Output Connector	6.3 mm (¼") TRS stereo phone jack	
<i>Headphones switchable between Channel 1 and Channel 2.</i>		
Maximum Headphone Output Power	220 mW at 32 ohms	
External Mute	6.3 mm (¼") TS unbalanced phone jack, each channel	
Antenna Input	BNC-type, 50 ohms Bias voltage 12V DC, 20 mA, each	
Computer Interface	Type: Ethernet, 10BaseT mode Connector: RJ45 Proprietary Software: Supplied on CD-ROM	
Power Supply	100-240V AC 50/60 Hz, 15W	
Pass-through AC Power Outlet	100-240V AC 50/60 Hz, 5A maximum	
Dimensions	482.0 mm (18.98") W x 275.5 mm (10.85") D x 44.0 mm (1.74") H <i>Not including BNC connectors or feet.</i>	
Net Weight	4.0 kg (8.8 lbs), without accessories	
Accessories Included	Detachable IEC-type AC power cable; two flexible UHF half wave antennas; link cable; IEC-type AC pass-through cable; front-mount antenna cables and connectors; CD-ROM with computer control interface software	

AEW-R4100 Receiver

Receiving System	True Diversity	
Image Rejection	60 dB typical	
RF Sensitivity	20 dBuV at 70 dB S/N ratio (50 ohms termination)	
Maximum Output Level	XLR, balanced: +4 dBV ¼" (6.3 mm), unbalanced: +10 dBV	
Audio Output Attenuator (ATTN)	Three position switch: 0 / -6 / -12 dB	
Headphone Output Connector	6.3 mm (¼") TRS stereo phone jack	
Headphone Output Power	220 mW at 32 ohms	
Antenna Input	BNC-type, 50 ohms Bias voltage 12V DC, 20 mA, each	
Power Supply	100-240V AC 50/60 Hz, 8W	
Dimensions	211.0 mm (8.31") W x 235.0 mm (9.26") D x 44.0 mm (1.74") H <i>Not including BNC connectors or feet.</i>	
Net Weight	1.7 kg (3.8 lbs), without accessories	
Accessories Included	Detachable IEC-type AC power cable; two flexible UHF half wave antennas; link cable; rack-mount adapters	

UniPak® Transmitter

RF Output Power	High: 35 mW, Low: 10 mW (switchable), at 50 ohms	
Spurious Emissions	Following federal and national regulations	
Input Connection	 Four-pin locking connector	
Batteries	Two 1.5V AA, not included	
Battery Life	High: 8 hours (alkaline) Low: 10 hours (alkaline) <i>Depending on battery type and use pattern.</i>	
Dimensions	66.0 mm (2.60") W x 24.0 mm (0.94") D x 87.0 mm (3.43") H	
Net Weight	125 g (4.4 oz), without batteries	
Accessories Included	Helical antenna; soft protective pouch	

Handheld Transmitters

RF Output Power	High: 35 mW, Low: 10 mW (switchable), at 50 ohms	
Spurious Emissions	Following federal and national regulations	
Microphone Element	AEW-T3300a: Cardioid Condenser AEW-T4100a: Cardioid Dynamic AEW-T5400a: Cardioid Condenser AEW-T6100a: Hypercardioid Dynamic	
Batteries	Two 1.5V AA, not included	
Battery Life	High: 6 hours (alkaline) Low: 8 hours (alkaline) <i>Depending on battery type and use pattern.</i>	
Dimensions	AEW-T3300a: 239.0 mm (9.41") long, 50.0 mm (1.97") diameter AEW-T4100a: 237.0 mm (9.33") long, 48.0 mm (1.89") diameter AEW-T5400a: 239.0 mm (9.41") long, 50.0 mm (1.97") diameter AEW-T6100a: 237.0 mm (9.33") long, 48.0 mm (1.89") diameter	
Net Weight	AEW-T3300a: 270 g (9.5 oz), without batteries AEW-T4100a: 276 g (9.7 oz), without batteries AEW-T5400a: 285 g (10.0 oz), without batteries AEW-T6100a: 275 g (9.7 oz), without batteries	
Accessories Included	AT8456a Quiet-Flex™ stand clamp; soft protective pouch	

IntelliScan™ Frequency Groups

Band C: 541.500 - 566.375 MHz (TV Ch. 25-30, USA)

Band C Group 1			Band C Group 2			Band C Group 3			
TV Ch.	Frequency - MHz	*	TV Ch.	Frequency - MHz	*	TV Ch.	Frequency - MHz	*	
25	(None)	0	25	541.500	1	25	541.500	1	
	-			-			-		
26	542.750	6	26	542.750	7	26	542.125	6	
26	543.000								
26	545.500								
26	546.000								
26	547.125								
26	547.375								
	-		26	547.500			26	543.250	
	-		26	544.375		26	543.500		
27	549.500	4	26	544.750		26	544.000		
27	549.750								
27	550.375								
27	550.625		26	545.750		26	546.250		
28	557.250	5	26	547.500		26	547.875		
28	557.500								
28	558.750								
28	559.250								
28	559.500								
29	562.000	4	27	(None)	0	27	548.250	2	
29	562.250								
29	563.375								
29	563.625								
29	563.500								
30	566.000	2	27	-		27	549.750		
30	566.250								
	-		28	554.250	5		-		
	-		28	556.125			28	555.750	4
	-		28	557.250			28	556.625	
	-		28	557.500			28	558.250	
	-		28	559.375			28	559.375	
	-		29	560.000	6	29	560.125	6	
	-		29	561.875			29		561.500
	-		29	562.250			29		562.625
	-		29	563.250			29		564.000
	-		29	563.500			29		564.250
	-		29	565.500			29		565.625
	-		30	566.000	1	30	566.125	1	
	-			-			-		

Band D: 655.500 - 680.375 MHz (TV Ch. 44-49, USA)

Band D Group 1			Band D Group 2			Band D Group 3			
TV Ch.	Frequency - MHz	*	TV Ch.	Frequency - MHz	*	TV Ch.	Frequency - MHz	*	
44	655.500	1	44	655.875	1	44	655.500	2	
	-			-		44	655.750		
45	658.000	6	45	656.250	7	45	656.625	5	
45	658.375								
45	659.250								
45	659.500								
45	661.500								
45	661.750								
	-		45	657.500			45	656.875	
	-		45	658.500		45	658.500		
46	662.375	2	45	659.750		45	658.750		
46	662.750								
	-		45	660.000		45	659.500		
47	669.625	2	45	660.500			-		
47	671.750								
	-			45	661.750		46	662.750	3
	-		46	664.375	2	46	663.000		
	-		46	665.500		46	665.250		
48	674.750	8	47	671.625	2	47	671.250	3	
48	675.125								
48	675.750								
48	676.125			47	672.000		47	672.375	
48	678.000				-		47	673.125	
48	678.250			48	674.000	6	48	674.125	6
48	679.000								
48	679.500								
	-		48	674.500			48	674.500	
	-		48	675.500			48	675.375	
	-		48	675.750			48	675.625	
	-		48	676.750		48	678.625		
	-		48	678.250		48	679.125		
49	(None)	0	49	680.250	1	49	(None)	0	

* Number of wireless frequencies in TV Channel.

Artist Elite® 4000 & 5000 Series Professional UHF Wireless Systems
IntelliScan™ Frequency Groups (continued)

Band E: 795.500 - 820.000 MHz (France) (TV Ch. 61-64, Europe)

Band E Group 1			Band E Group 2			Band E Group 3		
TV Ch.	Frequency - MHz	*	TV Ch.	Frequency - MHz	*	TV Ch.	Frequency - MHz	*
61	795.750	3	61	795.750	4	61	795.000	3
61	796.250		61	796.250		61	795.500	
61	796.500		61	796.500		61	795.750	
	-	61	797.900			-		
62	798.500	7		-	7		-	8
62	798.750		62	798.750		62	798.300	
62	799.750		62	799.000		62	798.750	
62	800.225		62	800.500		62	799.750	
62	802.225		62	802.500		62	800.500	
62	802.500		62	802.775		62	802.975	
62	803.500		62	803.500		62	803.250	
	-	62	803.750	62	804.250			
63	810.025	4		-	4	62	804.500	3
63	812.000		63	810.225		63	811.750	
63	812.500		63	811.500		63	812.000	
63	813.700		63	812.000		63	812.500	
	-	63	812.250		-			
64	814.500	6		-	5		-	6
64	815.750		64	814.750		64	814.300	
64	816.225		64	815.750		64	815.500	
64	818.225		64	816.225		64	815.750	
64	818.500		64	818.500		64	817.500	
64	819.250		64	818.975		64	818.225	
	-	64	-	64	820.000			

Band F: 840.125 - 864.875 MHz (TV Ch. 67-69, Europe)

Band F Group 1			Band F Group 2			Band F Group 3		
TV Ch.	Frequency - MHz	*	TV Ch.	Frequency - MHz	*	TV Ch.	Frequency - MHz	*
67	840.250	6	67	840.625	6	67	840.625	8
67	840.625		67	841.250		67	840.875	
67	841.375		67	842.875		67	841.625	
67	842.750		67	843.125		67	842.875	
67	843.375		67	843.875		67	843.875	
67	844.625		67	844.250		67	844.500	
	-	67	-	67	845.375			
68	847.000	4	68	846.250	6	67	845.750	
68	847.250		68	846.750		68	846.500	
68	848.375		68	847.500		68	848.875	
68	850.125		68	849.000		68	849.500	
	-	68	849.875			-		
	-	68	850.125			-		
69	854.625	7		-	5	69	855.500	6
69	854.900		69	857.950		69	855.750	
69	857.125		69	859.375		69	857.625	
69	858.250		69	860.125		69	858.650	
69	858.625		69	861.125		69	859.000	
69	860.400		69	861.750		69	860.625	
69	861.125			-			-	
de reg	863.125	4	de reg	863.125	4	de reg	863.125	4
de reg	863.375		de reg	863.625		de reg	863.375	
de reg	864.375		de reg	863.875		de reg	863.875	
de reg	864.875		de reg	864.875		de reg	864.125	

* Number of wireless frequencies in TV Channel.

IntelliScan™ Frequency Groups (continued)

Band G: 721.500 - 746.375 MHz (TV Ch. 52-55, Europe)

Band G Group 1			Band G Group 2			Band G Group 3		
TV Ch.	Frequency - MHz	*	TV Ch.	Frequency - MHz	*	TV Ch.	Frequency - MHz	*
52	722.125	6	52	721.750	5	52	722.250	7
52	722.625		52	724.125		52	722.500	
52	723.375		52	724.625		52	723.125	
52	723.625		52	724.875		52	724.375	
52	725.500		52	725.875		52	724.625	
52	725.750		-	-		52	725.125	
	-		53	726.125	52	725.375		
53	726.875	4	53	728.625	5	-	4	
53	727.125		53	729.250		53		728.750
53	729.125		53	729.625		53		729.000
53	729.875		53	732.125		53		730.125
	-		-	-	53	731.000		
54	736.875	6	54	736.000	7	-	5	
54	738.250		54	736.250		54		738.375
54	738.500		54	737.250		54		738.625
54	739.375		54	738.750		54		739.125
54	740.875		54	740.625		54		741.125
54	741.500		54	741.000		54		741.375
55	743.000	5	54	741.750	4	55	742.375	
55	744.125		55	742.000		55	742.625	
55	745.500		55	743.625		55	744.625	
55	745.750		55	744.250		55	745.125	
55	746.375		55	744.500		55	745.375	
	-		-	-		-	-	

* Number of wireless frequencies in TV Channel.

Artist Elite® 4000 & 5000 Series Professional UHF Wireless Systems

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