

EarAmp®

EWM100
**WIRELESS IN-EAR
MONITOR
SYSTEM**



OWNER'S MANUAL

SAMSON®

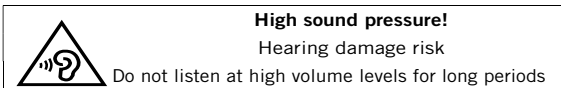
WARNING! This product is capable of causing permanent damage to your hearing if used at excessive volumes!

To protect your hearing, the Samson ER100 should always be used at as low a volume as possible.

We recommend that you stringently follow the guidelines established by the U.S. Occupational Safety Health Administration (OSHA) regarding maximum time exposure at various sound pressure levels:

- . Don't use this product for more than 8 hours at 90 dB SPL
- . Don't use this product for more than 4 hours at 95 dB SPL
- . Don't use this product for more than 2 hours at 100 dB SPL
- . Don't use this product for more than 1 hour at 105 dB SPL
- . Don't use this product for more than 1/2 hour at 110 dB SPL
- . Don't use this product for more than 15 minutes at 115 dB SPL
- . Don't operate at listening levels greater than 120 dB SPL!

Pay attention to what your ears are telling you! Ringing is a sign that you have set the gain levels too high and that damage may result. We recommend that you consult with a qualified audiologist if you exhibit ringing or any other symptoms.



Copyright 2024, Samson Technologies Corp V1.1

Samson Technologies Corp.
278-B Duffy Ave
Hicksville, NY 11801
www.samsontech.com

Important Safety Information

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug the apparatus during lightening storms, or when unused for long periods of time.
14. Refer all servicing to qualified personnel. Service is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This appliance shall not be exposed to dripping or splashing water and that no object filled with liquid such as vases shall be placed on the apparatus.
16. Caution-to prevent electrical shock, match wide blade plug wide slot fully insert.
17. Please keep a good ventilation environment around the entire unit.
18. The direct plug-in adapter is used as disconnect device, the disconnect device shall remain readily operable.
19. Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.



If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling.

Private household in the 27 member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For Countries not mentioned above, please contact your local authorities for a correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.

Important Safety Information

FCC Rules and Regulations

Samson wireless receivers are certified under FCC Rules part 15 and transmitters are certified under FCC Rules part 74. Licensing of Samson equipment is the user's responsibility and licensability depends on the user's classification, application and frequency selected.

This device complies with Part 15 of the FCC rules Class B and RSS-210 of Industry & Science Canada.

Operation is subject to the following two conditions:

- (1) This device must not cause harmful interference, and
- (2) This device must accept any interference received including interference that may cause undesired operation. Suitable for home or office use.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced Radio/TV technician for help.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Warning

The ET100 complies with FCC radiation exposure limits set forth for an uncontrolled environment. The ET100 should be installed and operated with minimum distance 20cm between the radiator & your body.

This equipment is intended for use in wireless microphone applications.

Equipment is intended for sale in: AT, BE, CH, CY, CZ*, DK, EE, FI*, FR*, DE*, GR*, HU, IE, IS, IT, LV, LT*, LU, MT*, NL, NO*, PL* PT, RO, SK, SI, ES, SE, UK

*Subject to license. Please contact your national frequency authority for information on available legal use in your area. Any changes or modifications not expressly approved by Samson Technologies Corp. could void your authority to operate the equipment.

Hereby, Samson Technologies Corp., declares that this ET100 and ER100 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The declaration of conformity may be consulted at: http://www.samsontech.com/site_media/support/manuals/EarAmp_ET100_ER100_DOC.pdf

Introduction

Welcome to Samson Wireless!

The Samson EarAmp EWM100 stereo wireless system provides professional sound quality and complete freedom on stage.

In these pages, you'll find a detailed description of the features of the EarAmp EWM100, as well as step-by-step instructions for its setup and use. If your wireless system was purchased in the United States, you'll also find a registration card enclosed—don't forget to follow the instructions so that you can receive online technical support and so that we can send you updated information about this and other Samson products in the future. Also, be sure to check out our website www.samsontech.com for complete information about our full product line.

We recommend you keep the following records for reference, as well as a copy of your sales receipt:

Receiver Serial number(s): _____

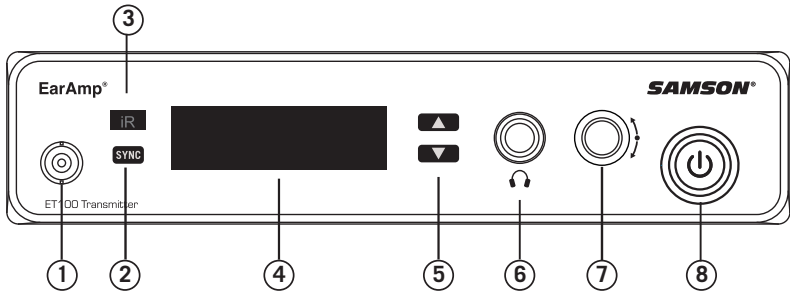
Transmitter Serial number: _____

Date of purchase: _____

If you have any questions or comments regarding the EarAmp or any other products from Samson, do not hesitate to contact us at support@samsontech.com.

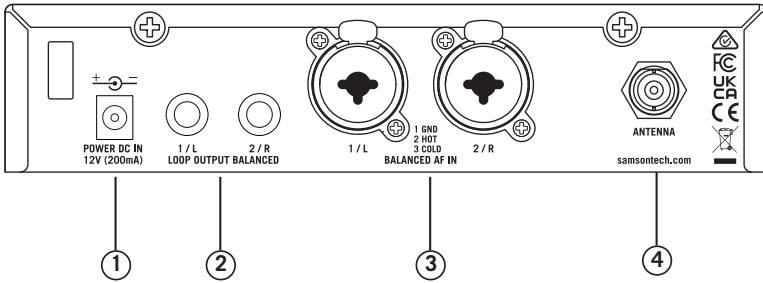
With proper care and maintenance, your EarAmp will operate trouble-free for many years. Should your EarAmp ever require servicing, a Return Authorization (RA) number must be obtained before shipping your unit to Samson. Without this number, the unit will not be accepted. Please visit www.samsontech.com/ra for an RA number prior to shipping your unit. Please retain the original packing materials and, if possible, return the unit in its original carton. If your EarAmp was purchased outside of the United States, contact your local distributor for warranty details and service information.

ET100 Transmitter Front Panel Functions



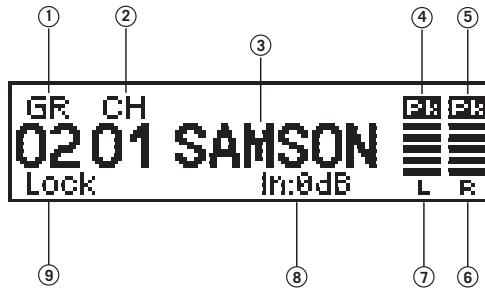
- 1. BNC Antenna Connector** - Connect the supplied antenna here by pushing it onto the connector. Turn the knurled ring until it locks in place (NOTE - not a full turn).
- 2. Sync Button** - Your system will arrive already synced to a default GR-CH. Should you need to change channels (first Auto Scan using ER100) then press this button send/receive channel/group setting to/from the ER100 receiver. NOTE - SYNC will flash while transmitting IR from the IR Lens (see number 3 below).
- 3. IR Lens** - ET100 will transmit/receive settings to/from the ER100 receiver through the IR Lens once the ET100's Sync button is pressed.
- 4. Display Screen** - Displays settings of the EarAmp system, including Group/Channel, input level, Frequency, name, etc.
- 5. Up/Down Volume Buttons** - Adjusts the input level of signal sent to the ET100 for the signal source (such as a mixer).
- 6. Headphone Output** - This indicator lights red when the transmitted audio signal is overloaded.
- 7. Rotary/Push Function Knob** - Push and hold this knob for >3 seconds to enter menu options. This knob is used to scroll through menu options by turning clockwise. Push the knob to select your menu option. (NOTE - as you turn the knob clockwise/counter-clockwise you will see each transmitter menu function with arrows next to them. Up/Down arrows are the next function, while the right arrow indicates the function you will enter after pushing the function knob).
- 8. Power Button** - Turns power on/off. Quick press to power on, button will illuminate in an amber color to indicate the ET100 is ready to use. Press and hold the power button for >2 seconds to power off the ET100.

ET100 Transmitter Rear Panel Functions



- 1. DC Input** - Connect the supplied power adapter here.
WARNING: Do not substitute any other kind of power adapter. Doing so can cause severe damage to the ET100 and will void your warranty.
- 2. Loop Output L/R** - Use these 1/4" TRS balanced output jacks when to route signal to other EarAmp systems, or other audio equipment as needed.
- 3. Combo Balanced Audio Input L/R** - Connect a monitor output/send from your mixer to left/right or left only (mono) COMBO input jacks using either balanced XLR or 1/4" cables. Pin wiring is as follows: Pin 1 ground, Pin 2 high (hot), and Pin 3 low (cold).
- 4. BNC Antenna Connector** - Connect the supplied antenna here by pushing it onto the connector. Turn the knurled ring until it locks in place (NOTE - not a full turn). HINT - Use of this rear antenna mounting option depends on your application. If the ET100 is mounted in a 19" rack case mount antenna on front (see #1 on page 6). If your application involves extending the antenna (with generic paddle antenna/distribution amps) you can use this rear BNC Antenna Connector.

ET100 Transmitter Display Screen



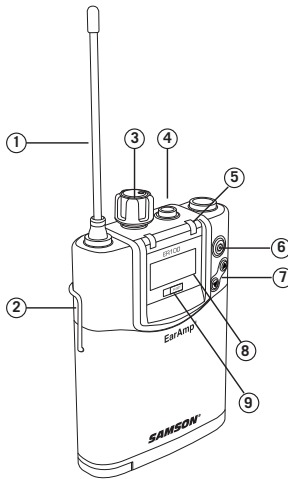
1. **GR** - Group number selected by the ER100 (once they are IR synced to each other), or manually selected by the user.
2. **CH** - Channel number selected by the ER100 (once ET100 and ER100 are IR set), or manually selected by the user (NOTE - there are factory default channel/group, as well as user selectable frequencies that can be saved, display will be PR and two digit number).
3. **System Name** - The EarAmp system provides the ability to assign names, making it easier for the operator of the equipment to quickly fine tune or troubleshoot issues for the performer (in a case of multiple singers on a stage, all with their own ER100, each bodypack can have the user's name, or if there are multiple systems each ET100 can have the performer's name displayed). HINT - name is displayed when first powered on, and when you quick press/push the menu button/knob.
4. **PK (LEFT)** - Peak indicator shows that there is clipping at the transmitter input's left channel. Adjust input level so that peaks only happen occasionally .
5. **PK (RIGHT)** - Peak indicator, same as above, for right channel input.
6. **R Meter** - Meter shows audio level to right channel audio signal strength.
7. **L Meter** - Meter shows audio level to left channel audio signal strength.
8. **IN Level (dB)** - Shows the input signal level of the ET100. Used to maximize the signal quality, depending on user application and signal feed from mixer/sound source.
9. **Lock** - Indicates that the ET100 is locked (cannot be edited). You can access menu options in the ET100 to lock the front panel up/down button controls, for applications where users are not familiar with the equipment this feature prevents accidental changes to system settings.

ET100 Transmitter Menu Options

The EarAmp system is a fully menu driven, feature rich in-ear wireless monitoring system. The menu options are intuitive, and easy to navigate. The details below explain each function within the ET100's menu:

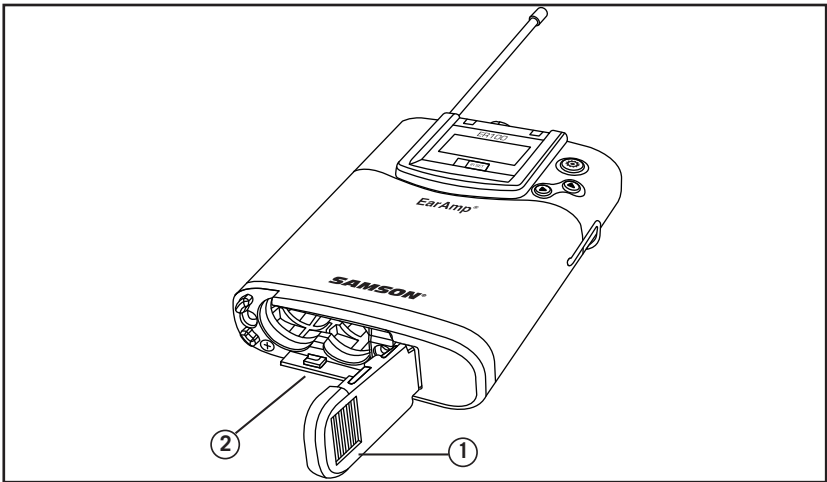
1. **Monitor Level** - Adjusts the ET100 front panel 1/4" headphone output jack's signal level. Push the rotary knob to select, then turn the knob clockwise or counterclockwise until desired level is reached. Push the knob again to select, check mark displays and you are returned to the main display screen.
2. **GR-CH Select** - Manually select Group and Channel by pushing and turning the rotary knob to the desired Group/Channel numbers. Push the knob again to select Group/Channel number. After selecting Channel you will see a check mark, then return to the main display screen
3. **Lock** - Indicates that the ET100 has been locked, thus preventing accidental adjustments to functions (HINT - when up/down arrow buttons are pressed you will see a lock icon on the display screen)
4. **User Preset** - The EarAmp system has the option to create user presets, helpful for when multiple performers share systems, or for mobile sound companies that run front of house/ PA systems for live events. The default frequency is 470 MHz.
5. **Display** - Select if you want to adjust the display's name, as well as selected GR-CH, or frequency (in MHz). Default name is SAMSON, but you can select any 6 character alpha-numeric name to suit your application. Select main display to show operating frequency (in MHz), and GR-CH (Group and Channel). NOTE - when main display option is selected simply push the rotary knob to show the ET100's name. Alternatively, you can select name as the display's default condition.
6. **Help** - You can check firmware version number, and reset the ET100 to factory default condition.
7. **Exit** - Returns to the default main display screen.

ER100 Backpack Receiver Callouts



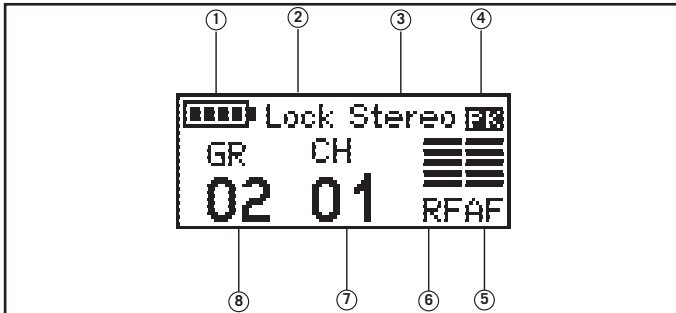
1. **Antenna** - This permanently attached antenna should be fully extended during normal operation.
2. **Belt Clip** - Use this belt clip to fasten the ER100 receiver to a belt or guitar/instrument strap.
3. **Volume/Power Rotary Knob** - This rotary knob controls both power and receiver's overall volume level. Rotate the knob clockwise to power on (you'll hear a click) and to turn volume level up. Rotate counter-clockwise to lower volume level, and to power the receiver off.
4. **Headphone Output** - This window is used to capture the infrared signal sent from the receiver during the IR SET to channelize the transmitter. The IR Lens is only active for the first 10 seconds when the transmitter is powered on.
5. **Antenna LED** - Illuminates blue when ER100 is powered on, shows antenna is ready to receive signal from an ET100 transmitter.
6. **Menu Button** - Press and hold >2 seconds to access and edit functions/features. NOTE - once you have found the function, select by pushing the MENU button again. HINT - there are three arrows, up/down and center button facing right. This right arrow is your selected function. Push the button once more to select, use UP/DOWN buttons to edit. Once you've made changes push the MENU button one last time to save your changes.
7. **Up/Down Buttons** - Scroll through menu functions/features by pressing up or down. NOTE - default UP/DOWN controls L/R balance.
8. **Display Screen** - Shows Frequency Group/Channel, battery level, RF level, etc.
9. **IR Lens** - Sends group/channel information to the ET100 transmitter, when in IR set mode.

ER100 Beltpack Receiver Callouts Continued



1. **Battery Door** - Open by pushing to the left of the ER100 (when held with display screen facing you).
2. **Battery Compartment** - Insert two "AA" batteries, being mindful of the polarity markings (HINT - you will see "+" and "-" symbols on the battery door's contacts).

ER100 Beltpack Receiver Display Screen



1. **Battery Level** - This shows condition of the battery.
2. **Lock** - Indicates that the receiver functions have been locked to prevent accidental changes to settings.
3. **Stereo/Mono** - Indicates whether you have a stereo feed from the mixer, or a mono feed for the mixer.
4. **PK** - When the audio signal is too hot (loud) this icon will illuminate. NOTE - only appears during signal peaks.
5. **AF Level** - An abbreviation for "Audio Frequency", meaning the level of sound sent from the ET100 transmitter to the ER100 receiver.
6. **RF Level** - Indicates the amount of radio signal between ET100 and ER100.
7. **CH Number** - Indicates the selected channel.
8. **GR Number** - Indicates the selected group of frequencies.

ER100 Menu Functions

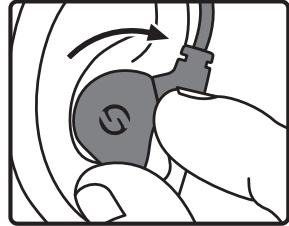
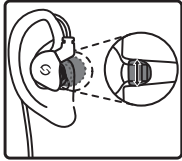
The EarAmp system is a fully menu driven, feature rich in-ear wireless monitoring system. The menu options are intuitive, and easy to navigate. The details below explain each function within the ER100's menu:

1. **Balance** - Adjusts the left and right side signal levels, for when your monitor mix is in stereo, and the mixer has split the instruments and voice on separate sends (so that L could be voice only, and R could be instruments only for example). A performer can adjust their L/R balance to achieve a "more me" type of mix.
2. **St/MON** - The user has the option to have their mix in mono or stereo, depending on their use case.
3. **Volume Boost** - Options are 0dB, +3dB, +6dB. Useful if your overall sound level is too low, or for when you're using over-ear or on-ear headphones instead of earbuds.
4. **High EQ** - Activates a hi-shelf EQ to boost high frequencies, if the sound in your ears happens to be muddy/boomy or otherwise unintelligible.
5. **Limiters** - If your mix sounds distorted when the band becomes louder, you can activate the preset limiter function. Options are off, -6dB, -12dB, and -18dB.
6. **Display** - Select if you want to adjust the display's brightness, name, as well as selected GR-CH, or frequency (in MHz). Default name is SAMSON, but you can select any 6 character alpha-numeric name to suit your application. Main displays can be selected to select operating frequency (in MHz), or GR-CH (Group and Channel).
7. **RF Tools** - Includes Squelch, GR-CH manual select, and User Preset functions. Squelch can be left at the factory preset condition, only adjust if there is static noise in the event of RF/AF dropouts.
8. **Auto Scan** - You can scan and find the clearest frequency either by GR or CH, depending on your arrangement. Meaning, if multiple systems are operated simultaneously you can scan the first by GR (Group) so the ER100 automatically finds unoccupied frequencies, and all other ER100's can be scanned by CH (Channel) within the selected GR.
9. **Freq TX >** - Useful in case the ET100 frequency is changed accidentally, select if you want to sync the ER100's frequency to the ET100 (meaning, change the ET100 frequency to match the ER100 frequency).
10. **Freq TX <** - Useful in case the ER100 frequency is changed accidentally, select if you want to sync the ET100's frequency to the ER100 (meaning, change the ER100 frequency to match the ET100 frequency).
11. **Lock** - Indicates that the ER100 has been locked, thus preventing accidental adjustments to functions (HINT - when menu button or up/down arrow buttons are pressed you will see a lock icon on the display screen)
12. **Help** - You can check firmware version number, and reset the ER100 to factory default condition.
13. **Exit** - Returns to the default main display screen.

Zi150 Earphones

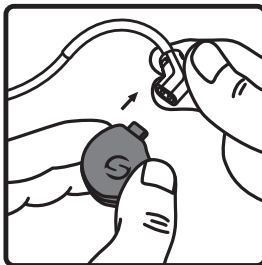
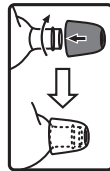
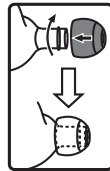
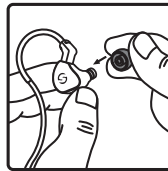
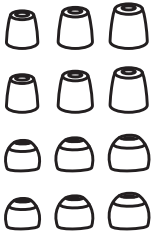
Fitting the Zi150 Earphones

Pictorial below explains how to properly put these earphones in your ear. NOTE - look for the L and R on the earphones, then follow steps below:



Zi150 earphone tip installation & earphone/wire installation

Samson Zi150 include foam and silicone earphone tips, provided in small, medium, and large sizes. Pictorial below shows how to install the tips. HINT - foam tips will provide the best low end performance:

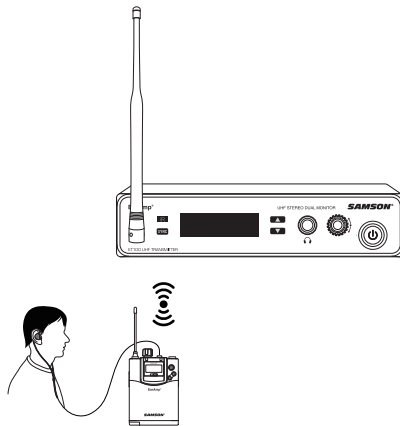


Quick Start, ER100 Auto Scan & IR Sync

In order for your in-ear wireless system to work correctly, both the receiver and transmitter must be set to the same channel (operating frequency).

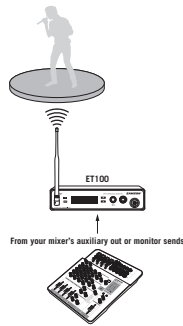
To help simplify your wireless experience, the ER100 will auto scan for the most interference free channel/group. Follow the procedure below to scan and sync your ER100 and ET100.

1. Rotate the ER100 volume control clockwise to turn the power on.
2. Press and hold the menu button.
3. Use the down arrow to scroll through the menu until you reach Auto Scan.
4. Select Auto Scan by pushing the menu button.
5. You have the option, depending on your use case, to scan by channel (CH) or to scan by group (GR).
6. Push the menu button one more time to begin the scan.
7. Once the scan completes the next menu prompts you to sync with an ET100 half-rack transmitter (Freq > TX)
8. If you select yes you must be ready to push the sync button on the front panel of the ET100 (NOTE - the ET100's power must be on, of course).
9. Hold the ER100 so that it is facing the ET100, being sure not to block the IR windows on either receiver or transmitter.
10. You will see a check mark on the RX/TX display screens if the IR sync was successful.



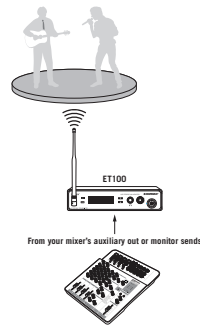
EarAmp System Setup

This illustration shows the setup for either a solo performance or a performance where the vocalist is monitoring wirelessly and the band is using another monitoring solution (such as powered monitors). A mix of the complete band and vocals (or vocals only, depending on mixer I/O) can be sent from a single ET100 transmitter to a single ER100 beltpack (and a different mix is sent from the mixer directly to onstage powered speakers).



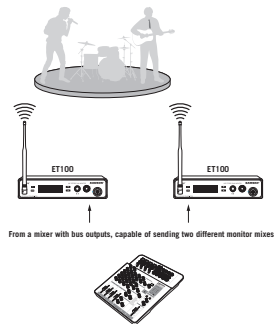
Single ER100 with Solo Performer

The second illustration shows the setup for dual ER100 receivers, where there is one vocalist and one instrumentalist. A single ET100 transmitter can be used with multiple ER100 beltpacks, either in mono or stereo configuration (depending on mixer I/O).



Dual ER100 with Single ET100

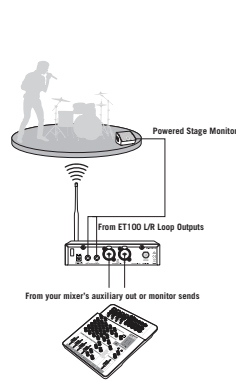
The third illustration shows the setup for individual mixes from two complete EarAmp systems. The signal flow will depend on your mixer's I/O, and whether it has enough mix outputs, aux sends, or bus outputs to provide the ET100 with L/R stereo mixes.



Dual EarAmp Systems with individual mixes

System Setup Continued

This illustration shows an alternative setup where the mixer does not have enough monitor/aux outputs to send two different monitoring mixes (one mix for vocals and one mix for instruments), but the band still needs onstage monitoring. The vocalist is monitoring wirelessly and the band hears the exact same mix on the stage. The mix (of the complete band plus vocals) will be sent from an ET100 transmitter using the ET100's loop output jacks to pass the same mix to a powered speaker on the stage.



Single EarAmp System Loop Output to powered PA speaker

Setup for performers that need to hear “more me”

Vocalists and instrumentalists oftentimes need to hear more of themselves during a live performance. It's beneficial to both band and audience that the performer is comfortable to they can confidently hit the high notes or pull off a ripping guitar solo.

We have arranged the ER100 beltpack so that a performer can use the up/down arrows as a balance control to change their mix and hear “more me”. This is achieved by signal routing from the mixer to the ET100. For example, you could arrange the mixer to send all instruments to the left (L) input on the ET100 and the vocalist to the right (R) input on the ET100. In this scenario the vocalist would use the up/down arrows to move the balance slider to the right to hear more of their voice.

ER100 in MONO mode, with signal routed in the example above:

When the ER100 is in mono mode, the performer hears a mono-summed signal in both ear buds. The up/down arrow keys can be pressed to dial in the volume of the vocal level compared to the instrument's level. The slider all the way to the left will be vocals only, and the slider all the way to the right will be instruments only.

ER100 in STEREO mode, with signal routed in the example above:

When the ER100 is in stereo mode the up/down arrow balance control works like two separate faders for L and R channels. Moving the balance slider all the way left turns the right side down, and moving the slider all the way right turns the left side down.

Specifications

System

| | |
|--|--|
| Operating Range | 300' (100m) line of sight |
| RF Carrier Range | 470 MHz~502 MHz |
| RF Channels | 10 groups, 18 channels per group |
| User Preset Channels | 5 configurable groups 10 configurable channels per group |
| Maximum FM Deviation | ± 50 kHz |
| Modulation Mode | FM MPX (Stereo) |
| Oscillation Mode | PLL phase locked frequency synthesis |
| MPX Tone Control Frequency | 19 kHz |
| Frequency Stability (0°C - 50°C) | ± 0.005% |
| Zi150 Earbuds | 32Ω impedance |
| Frequency Response | 38 Hz - 15 kHz (+0/-3 dB) 32Ω Load |
| THD+N | <0.5% (typ.) ref. 1 kHz @ -6 dBu TX input level pad set to -12 dB 32Ω Load |
| Dynamic Range | 90 dB (typ.) ref. 1 kHz @ +6 dBu TX input level pad set to -12 dB 32Ω Load |
| ET100 and ER100 AF Meter Levels (ET100 Input Level pad set to -12 dB) | |

| |
|---------------------------------|
| Peak...+16 dBu input, 5 % THD+N |
| 5.....+4 dBu input |
| 4.....+1 dBu input |
| 3.....-1 dBu input |
| 2.....-6 dBu input |
| 1.....-16 dBu input |

ET100 Transmitter

| | |
|---------------------------------|---|
| Chassis Type | 1/2 EIA Standard 1U |
| RF Output Power | 10 mW |
| RF Harmonic Radiation Rejection | >60 dB |
| Audio Input | 2 x XLR + 1/4" TRS combi balanced |
| Audio Output | 2 x 1/4" TRS balanced loop outputs 1/4" TRS stereo headphone monitor output |
| Power Supply | 15 V DC, 800 mA, center positive, sleeve negative |
| Current Consumption | 160 mA (typ.) |
| Dimensions (LxWxH) | 214 x 200 x 44 mm 8.4 x 7.9 x 1.7 in |
| Weight | 961 g 34 oz |

ER100 Receiver

| | |
|----------------------------|--------------------------------------|
| Power Supply | 2 x AA Batteries |
| Current Consumption | 150 mA (typ.) |
| Battery Life | 8 hours (typ.) |
| Audio Output | 1/8" TRS stereo headphone output |
| Dimensions (LxWxH) | 102 x 65 x 23 mm 4 x 2.6 x 0.9 in |
| Weight (without batteries) | 95 g 3.4 oz |

Specifications Continued

ET100 Transmitter Audio Performance

Input Impedance

100 k Ω (hot to ground, cold to ground)

Frequency Response

Balanced loop output:
 $\geq 600\Omega$ Load
7 Hz - 50 kHz (+0/-0.05 dB)
Headphone output:
32 Ω Load
20 Hz - 20 kHz (+0/-3 dB)

Maximum Output Level
(Re. 1 kHz, 1% THD+N)

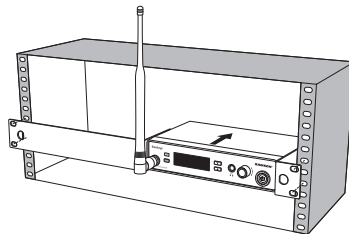
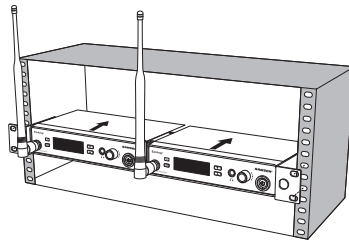
Balanced loop output:
10k Ω Load
+24.8 dBu in = +24 dBu / 12.2 Vrms out
Headphone output:
32 Ω Load
-2.6 dBu in = +6 dBu / 1.6 Vrms out

Dynamic Range
(Re. 1 kHz, 1% THD+N)

Balanced loop output:
10k Ω Load
138 dB re. +24 dBu (A-wt.)
Headphone output:
32 Ω Load
91 dB re. +6 dBu (A-wt.)

ET100 Rack Mounting

The ET100 transmitter can be installed into a standard 19" rack for ease of transport or as part of a permanent installation. Use the provided rack mount hardware following the illustrations below. NOTE - you can rack two ET100 side by side, or individually:



**Having Trouble with your EarAmp In-Ear Wireless System?
We can help!**



**CONTACT OUR SUPPORT TEAM: support@samsontech.com
Our experts can help you resolve any issues.**

Follow us:



@samson



@samson_technologies

Samson Technologies
278-B Duffy Ave
Hicksville, NY 11801
www.samsontech.com