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System Components

All systems include:
VESR or VSCR receiver
1 1/4" AF connector
Power supply
User guide

Hand Held System includes:
HH18 handheld transmitter

Triple Play System includes:
MBP18 bodypack transmitter
Lav, Headset mic and Guitar cable

Manual
Functions of the VESR Receiver

Front Panel

1. Power Indicator: Lights when is receiving power
2. RF signal indicator: lights when transmitter is turned on indicating reception of RF signal
3. Audio Signal Indicator: Lights when receives audio from transmitter
4. Audio output level control Clockwise increases the audio output, Counter Clockwise decreases the audio output.

Rear Panel

1. 1/4" Unbalanced Audio Output
2. 12-18Vdc in Power adaptor
Functions of the VSCR Receiver

Front Panel

1. Power Indicator: Lights when is receiving power
2. RF signal indicator: lights when transmitter is turned on indicating reception of RF signal
3. Audio Signal Indicator: Lights when receives audio from transmitter
4. Audio output level control Clockwise increases the audio output, Counter Clockwise decreases the audio output.

Rear Panel

1. 12-18Vdc in 12-18Vdc in Power adaptor
2. 1/4" Unbalanced Output
3. Mute threshold adjustment The factory default usually needs no adjustment. However if there is any interference, this threshold value can be increased by turning the knob clockwise until RF signal lamp goes out.
Functions of the HH18 Hand Held Transmitter

1. Microphone Grille
2. Low Battery Indicator
   Lights when the battery is low
3. Power Switch
4. Battery Door

Changing Batteries:
Expected life for two 1.5V AA alkaline batteries is about 8 hours. When the battery indicator lights the batteries should be changed immediately (as shown below).
Wearing the Body Pack Transmitter:
Clip the transmitter to belt ①, or slide a guitar strap through the transmitter clip ②, as shown. For best results, slide the transmitter until the belt ③ is pressed against the base of the clip.

Changing Batteries:
Expected life for two 1.5V AA alkaline batteries is about 8 hours. When the battery indicator lights RED the batteries should be changed immediately as shown to the left.
**Trips for Improving System Performance**

- Maintain a line of sight between transmitter and antenna.
- Avoid placing the receiver near metal surfaces or any digital equipment (CD players, computers, etc).
- Keep the receiver away from the wall and over 3 feet from the ground.
- Cellular telephones and two-way radio and such can interfere with the transmission, maintain a distance from interfering equipment or any cause of interference.

**Troubles Shooting**

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<th>ISSUE</th>
<th>INDICATOR STATUS</th>
<th>SOLUTION</th>
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| No sound or faint sound | Transmitter ON Indicator stop flashing | Turn on transmitter  
Make sure the +/- indicator on battery match the transmitter terminals |
| | Power indicator off | Make sure AC adapter is securely plugged into electrical outlet and into DC Input connector on rear panel of receiver. |
| | Receiver RF indicator glows | Turn the receiver up  
Turn up the Gain adjustment switch in the transmitter  
Check the power connection of the receiver and amplifier or mixer |
| | Receiver RF indicator off, transmitter indicator ON | Take the receiver away from any metal objects.  
Check whether there is obstruction between receiver and transmitter  
Move the transmitter near the receiver.  
Check the receiver and transmitter frequency |
| | Transmitter low battery Indicator ON | Change the batteries in transmitter |
| Distortion or unwanted noise burst | Receiver RF indicator ON | Try removing nearby sources of RF interference (CD players, computers, digital effects. In-ear monitor systems, etc.) |
| Distortion level increases gradually | Transmitter low battery Indicator ON | Change the batteries in transmitter |
| Sound level different from cabled guitar or microphone, or when using different guitars | | Adjust transmitter again and receiver volume as necessary |
Specifications

**VES/VSC System**

**Frequencies:**
- CODE V54  173.8 MHz
- CODE V59  174.1 MHz
- CODE V60  174.5 MHz
- CODE V61  174.8 MHz

**Operating Range under Typical Condition:** 150’ (50m)
*Note:* Actual range depends on RF signals absorption, reflection, and interference.

**Audio Frequency Response:** (+/- 3 dB) 60Hz~16KHz

**Total Harmonic Distortion:** (+/- 30 KHz deviation, 1 KHz tone) <1%

**Dynamic Range:** >90 dB (A-weighted)

**Operating Temperature Range:** 14º F to 122ºF
(-10 ºC to +50ºC)
*Note:* Battery characteristics may limit the range

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**VESR Receiver:**

**Audio Output Level Maximum:** (ref. +/-30 KHz, 1 KHz)
1/4" connector (into 3000 ohm load): -18 dBV

**Output Impedance:** 1/4" connector 1 kilohm

**Sensitivity:** (intermediate frequency adjustment audio noise output: <92 dB)

**Image Rejection:** > 40 dB

**Dimensions:** 1.4” x 6” x 4”
(35mm H X 150mm W X 100mm D)

**Weight:** 6.17 oz (175g)

**Power Requirements:** 12-18 Vdc at 400 mA, supplied by external power supply

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**Body pack Transmitter MBP18:**

**Audio Input Level Maximum:** 0 dBV ~ +20 dBV

**Gain adjustment Range:** 30 dB

**Input Impedance:** 470 kilohm

**Dimensions:** 4.12” x 2.6” x 0.91”
(105mm H x 65mm W x 23mm D)

**Weight:** 2.9 oz (82.21g) without batteries

**Power Requirement:** 2 - AA alkaline batteries or rechargeable batteries. Battery life about 8 hours (Alkaline)

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**VSCR Receiver:**

**Audio Output Level Maximum:** (ref. +/-30 KHz, 1 KHz)
1/4" connector (into 3000 ohm load): -18 dBV

**Output Impedance:** 1/4" connector 1 kilohm

**Sensitivity:** (intermediate frequency adjustment audio noise output: <92 dB)

**Image Rejection:** > 40 dB

**Dimensions:** 1.73” x 9.25” x 4.6”
(44mm H X 235mm W X 118mm D)

**Weight:** 11.34 oz (321.48 g)

**Power Requirements:** 12-18 Vdc at 400 mA, supplied by external power supply

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**Handheld Transmitter HH18:**

**Audio Input Level maximum:** 0 dBV

**Dimensions:** (including the microphone)
2” x 9.6”
(245mm x 53mm Diameter)

**Weight:** 7.42 oz (210.35 g)

**Power Requirement:** 2 - AA alkaline batteries or rechargeable batteries. Battery life about 8 hours (Alkaline)
THREE YEAR LIMITED WARRANTY

WARRANTY Information can be viewed online at http://www.galaxyaudio.com/warranty.php

1-800-369-7768    www.galaxyaudio.com

Specifications in this manual are subject to change without notice.

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