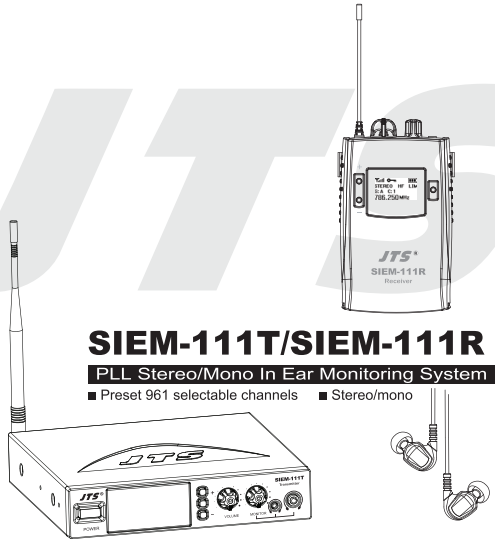
JTS®

Hear The Future.....Now !



SIEM-111T/SIEM-111R

PLL Stereo/Mono In Ear Monitoring System

- Preset 961 selectable channels
- Stereo/mono

NEW! SIEM-111T/SIEM-111R can select a better earphone, ***IE-5*** or ***IE-6***
with Hi-dynamics, Hi-definition, Low-noise and Accurate audio reproduction.

RoHS conform FC CE 1856

59508-015-03

ATTENTION

Please pay high attention to the following information.

The guideline published by Occupational Safety Health Administration (OSHA) in United States indicates overload volume level for prolonged listening may harm your hearing. Here below are referenced data on maximum time exposure to sound level before hearing injury occurs.

Sound Level (dB)	Duration per day (hrs)
90	8
92	6
95	4
97	3
100	2
102	1.5
105	1
110	0.5
115	0.25
140	Avoid or injury may occur

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Thank you for choosing the JTS in ear monitoring system. In order to obtain the best efficiency fromthe system, you are recommended to take few minutes to read this instruction manual carefully.

1. Important Cautions

- Make all connections before plugging the unit into an AC power outlet.
- Do not leave the devices in a place with high temperature or high humility.
- Do not handle the power cord with wet hands.
- Keep the devices away from fire and heat sources.
- Avoid prolonged listening at overhigh volume. It may cause injury to your ears.

2. Features

- The system is based on JTS reliable UHF PLL technology.
- There are 961 selectable channels available. As many as 16 sets of SIEM-111 transmitters can work on the same stage.
- The system offers 4 groups of each 16 compatible preset channels. This allows monitor engineer to set up systems easily.
- Full metal cases on both SIEM-111T and SIEM-111R.
- Full LCD display with backlight on both SIEM-111T and SIEM-111R.
- Lock-on mode on both SIEM-111T and SIEM-111R.
- Switching power is provided on SIEM-111T. (100~240V)
- -10 dB input select switch on SIEM-111T
- Loop out connector on SIEM-111T for multiple setups with ease.
- Headphone monitor on SIEM-111T, which is convenient for engineers.
- MPX stereo Audio Transmission
- Hi frequency booster is equipped on SIEM-111R.
- Volume and balance controls are on the SIEM-111R.
- Built in dynamic limiter on SIEM-111R
- The wideband DynaDriver earphone reproduces full range of frequency, natural mids, and full highs and bass. (Optional accessory：IE-1)
- Human friendly mechanical structure of the earphone ensures long time fatigueless wearing. (Optional accessory：IE-1)

3. Specification

3-1 SIEM-111T/SIEM-111R

1. S/N ratio: 80 dB (A weighted)
2. Image rejection: 80 dB
3. Channel separation: 35 dB
4. Input level select switch: 0 dB/-10dB
5. Switching power supply: 100-240 V
6. Two pcs of AA battery with life over 12 hours
7. Net weight: SIEM-111T: 1.45kg
   SIEM-111R: 0.2kg

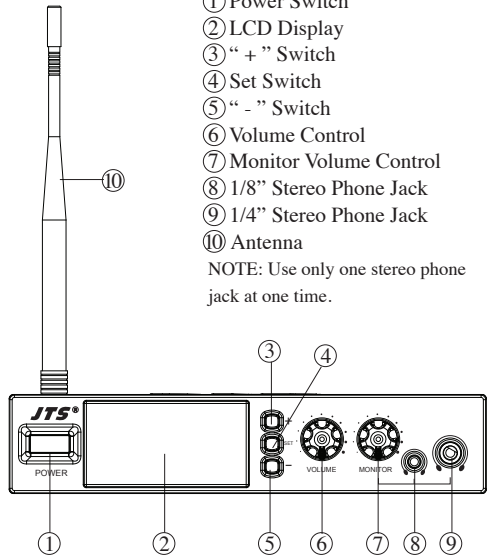
3-2 IE-1 (Optional Accessory)

Frequency Response	10 ~ 20,000 Hz
Transducer Type	Dynamic
Impedance	16 Ω
Sensitivity (at 1 kHz)	114 dB/mW
Distortion	Less than 0.3 %
Cord Length	58”
Net Weight	6 g (cable excluded)

4. Parts Identification

4-1 SIEM-111T

Front Panel

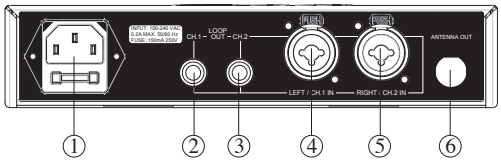


① Power Switch
② LCD Display
③ “ + ” Switch
④ Set Switch
⑤ “ - ” Switch
⑥ Volume Control
⑦ Monitor Volume Control
⑧ 1/8” Stereo Phone Jack
⑨ 1/4” Stereo Phone Jack
⑩ Antenna

NOTE: Use only one stereo phone jack at one time.

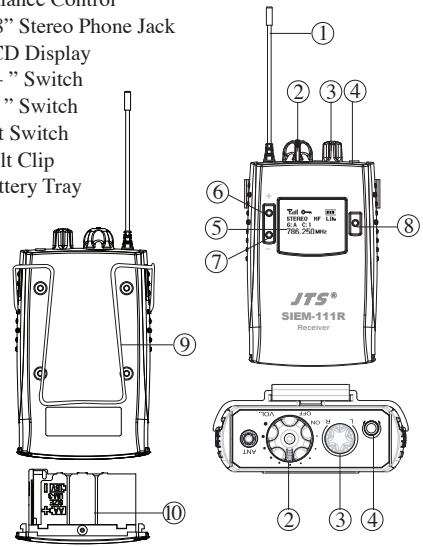
Rear Panel

① AC Power Socket and Fuse
② Balanced Loop Out Connector CH.1
③ Balanced Loop Out Connector CH.2
④ Balanced XLR/ ϕ 6.3mm Combo Input Left / CH.1
⑤ Balanced XLR/ ϕ 6.3mm Combo Input Right / CH.2
⑥ BNC Antenna Output Socket



4-2 SIEM-111R

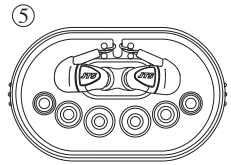
① Antenna
② Power Switch and Volume Control
③ Balance Control
④ 1/8" Stereo Phone Jack
⑤ LCD Display
⑥ " + " Switch
⑦ " - " Switch
⑧ Set Switch
⑨ Belt Clip
⑩ Battery Tray

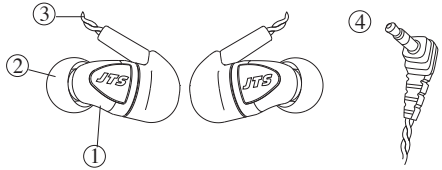


4-3 Accessory

1. IE-1

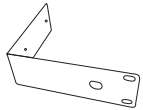
① Earphone
② Silicon Sleeve
③ Cord
④ 1/8" Stereo Phone Plug
⑤ Case



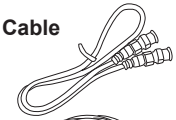


2. IE-5 / IE-6 (Optional)

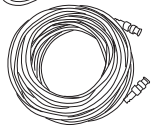
3. RM-901 Rack Mount Kit



4. RTF-1 Antenna Extension Cable



5. RTF-20 Antenna Extension Cable (20 meters)

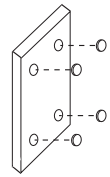


5. Preparing Procedures

5-1 SIEM-111T

1. Set the rubber pad

Four self-adhesive rubber pads are provided to ensure the stability. They are to be placed on the bottom of the transmitter.



2. Attach the antenna

The user-friendly antenna comes with BNC connector. Connect the antenna on the rear of the transmitter and align it upward.

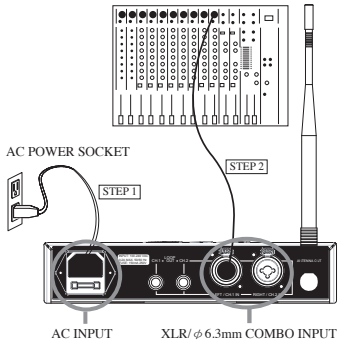
3. Connect the main unit

Connect the AC INPUT in the rear panel of SIEM-111T to an AC power socket with the supplied AC power cord. STEP 1

4. Connect the audio source, such as a mixer.

Connect the mixer output to the XLR / ϕ 6.3mm combo input in the rear panel of SIEM-111T with the AF input cable. STEP 2

NOTE: Two balanced XLR / ϕ 6.3mm combo inputs are provided. You may use either one input or both for a stereo source. Also, two balanced ϕ 6.3mm loop out connectors are provided for multiple systems application.



5-2 SIEM-111R

1. Insert and replace batteries

(1) The battery tray is on the base of the receiver.
(2) Hold both sides on the base of the receiver and release the battery tray. (Figure 1)
(3) Upright the battery tray.(Figure 2)
(4) Push down and slide the lid of the battery tray outward.(Figure 3)
(5) Uncover the lid and insert two pieces of 1.5V AA batteries according to the polarity indication. (Figure 4)
(6) Cover back the lid. Push down and slide the lid inward.(Figure 5)
(7) Slide back the battery tray into the base of the receiver.(Figure 6)


Figure 1


Figure2

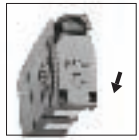


Figure 3


Figure 4

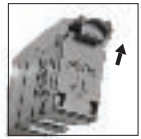


Figure 5


Figure 6

2. Connect with the earphone IE-1

(1) Plug the earphone into the jack of the receiver. (Figure 1)

(2) Make sure the volume is at low level to avoid injury to your ears.

(3) Insert earphones into your ear at a correct position. (Figure2)

(4) Check if the silicon sleeve is suitable for your ear. If not, replace with other sizes of sleeves for comfort and best isolation. (Figure 3)

(5) Make sure correct channels are chosen. The letter "R" and "L" on the earphones indicate the right and left channels respectively.

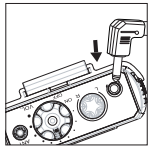


Figure 1

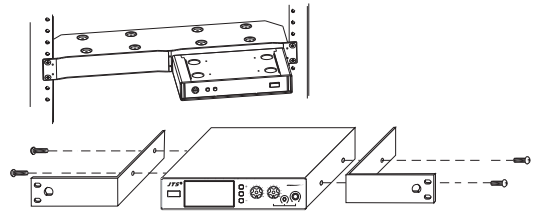
Figure 2

Figure 3

5-3 Optional Accessory

1. DR-900/RP-900 Rack Mount Kit

Rack mount kit is available to install the half rack transmitter into a standard EIA rack.



2. RTF-1 RTF-20 Antenna Extension Cable

Antenna extension cable enables front mounting antenna which benefits reduction of RF interference.