

# IEM-162 16-CHANNEL SELECTABLE PLL SYNTHESIZED IN EAR MONITOR

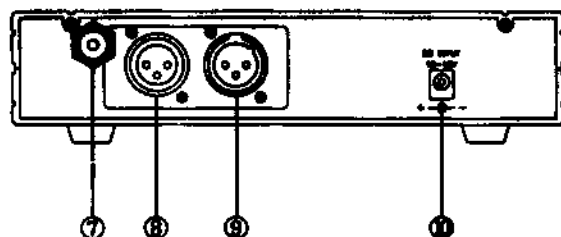
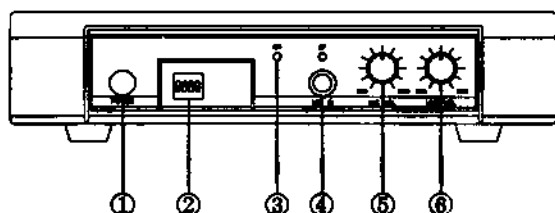
Thanks for purchasing our PLL synthesized 1/2 19" EIA transmitter. With UHF 16 preset selectable frequencies, the transmitter with wireless receiver can provide in-ear monitoring for every performer on stage. The system is designed under the guides of highest audio quality and interference-free transmission reliability.

This device complies with part 15 of the FCC rules. Operations is subject to the following two conditions: (1) This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC ID.: JEBIEM-162

## Transmitter

This is a stationary transmitter for use with our wireless receiver. The transmitter operates on UHF band frequency with PLL synthesized control. Two transmitters can be mounted into a standard 19" rack by using the supplied rack mount kit. Powered by 12~18V DC.



## Description

1. Power: Power on pushbutton switch.
2. Channel Selector: 15 or 16 different selectable frequencies as below.

CH 1 ■■■■■	CH 2 ■■■■■	CH 3 ■■■■■	CH 4 ■■■■■
CH 5 ■■■■■	CH 6 ■■■■■	CH 7 ■■■■■	CH 8 ■■■■■
CH 9 ■■■■■	CH 10 ■■■■■	CH 11 ■■■■■	CH 12 ■■■■■
CH 13 ■■■■■	CH 14 ■■■■■	CH 15 ■■■■■	CH 16 ■■■■■

3. Power Indicator: The indicator LED lights when the power supply is plugged in.
4. MIC IN: 6.3φ jack for wired microphone.
5. MIC Volume Control: This rotary control adjusts the audio input to microphone level.
6. Line Volume Control: This rotary control adjusts the audio input to line level.
7. Antenna Socket: TNC socket for antenna.
8. LIN IN: Balanced 3-pin XLR connector for audio input e.g. , mixer, CD-player.
9. LIN Output: Balanced 3-pin XLR connector for audio output e.g. , another transmitter
10. DC Jack: DC input connector for the supplied AC adapter.

## Setting Up

**NOTICE:** Prior to setting up, check that the transmitter and receiver are tuned to the same frequency. Two or above transmitters operating on the same frequency can not be used at the same time and area, so please select the different frequencies which can be used simultaneously at local area.

### A. Connecting the transmitter to power

1. Plug the antenna into the TNC socket on the transmitter and point it upward.
2. Check that the voltage of the supplied AC adapter conforms to the voltage available in local area. Using the wrong AC adapter may cause irreparable damage to the unit.
3. Plug the feeder cable of the supplied AC adapter into DC IN socket on the receiver. Then plug the AC adapter into a power outlet.

### B. Setting up the transmitter

#### a. Connecting to a microphone

1. Plug the 6.3 $\phi$  end of the microphone cable into the MIC IN on the front panel of the transmitter.
2. Switch the receiver and the hi-fi appliance (amplifier, tape deck etc.) power on.
3. While testing the microphone and hearing the sound from receiver, adjust the MIC levels on the transmitter or on the receiver at an appropriate position.

#### b. Connecting to other audio resource

1. Plug the XLR end of the cable into the LINE IN on the rear panel of the transmitter and the other end into the audio resource.
2. Switch the receiver and the hi-fi appliance (amplifier, tape deck etc.) power on.
3. While hearing the sound from the receiver, adjust the LINE levels on the transmitter or on the receiver at an appropriate position.

## Safety

1. Do not spill liquid on the appliance and do not drop it on a hard concrete floor.
2. Do not place the appliance near heat sources such as radiators, or amplifier. Do not expose it to direct sunlight, extremely dust, excessive moisture, or vibration.

## Specification

Frequency Range	: UHF band, 790~806 MHz
Case	: 1/2 19" case
RF Power Output	: 10mW (Max)
Oscillation Mode	: PLL synthesized
Frequency Stability	: $\pm 0.005\%$
Line In	: max. 0dB
Mic In	: max. -25dB
Maximum Deviation	: $\pm 48\text{kHz}$ with limiting compressor
Spurious Emission	: More than 60dB below carrier frequency
T.H.D.	: Less than 0.5% (at 1 KHz)
Supply Voltage	: DC12~18V
Tone Signal	: 32.768KHz
Current Consumption	: 105mA $\pm$ 10mA
Dimension (mm) WxHxD	: 210 (W) x 44(H) x 165 (D)

Notice : The changes or modifications not expressly approved by the party responsible for compliance could

void the user's authority to operate the equipment.