OWNER'S MANUAL

UHF Wireless Transmitter

Model: EM-100



Diversity Wireless System for**On Stage In-ear Monitor**

Table of Contents

System Components	1
Transmitter Features	2
Receiver Features	4
System Setup	5
Specifications	7

Thank you for choosing our wireless In-ear Monitor system, In order to obtain the best efficiency from the system, you are recommended to read this instruction manual carefully.

All systems include

Transmitter 6.35mm audio cable 1* TNC antenna Power supply Belt-pack Receiver Earphone 2 x AA Batteries User guide

System Features

UHF 902.25-926.75MHz frequency range Mono Outputs, four levels RF output selectable True diversity for maximum range and dropout protection PLL Synthesized circuit Pre-set 100 (10*10) selectable frequencies IR sync downloading the frequency from transmitter LCD display shows the RF level, AF level, channel and frequency. EIA standard 1/2U rack-mountable metal chassis Up to 200m line-of-sight operating range Designed for professional stage performance applications

Front Panel

1. Power switch

Tap to turn on, tap to turn off, blue light up when transmitter turns on

2. LCD display

The 63mm*22mm high resolution LCD display shows the group, channel, frequency, antenna status, AF & RF level and IR set.

3. IR (Infrared) port

Send IR signal to receiver for synchronization

4. UP button

Adjust the frequency, channel, group incrementally

5. SET button

Menu control to set group, channel, frequency, IR Synch.

6. DOWN button

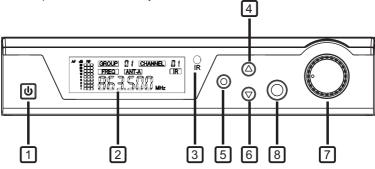
Adjust the frequency, channel, group degressively

7. Volume control

Adjust the volume level, volume knob encircled by blue light

8.Headphone Jack

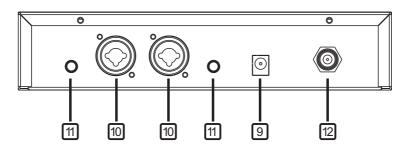
Headphone output connector 6.3mm jack



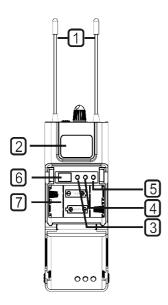
Back Panel

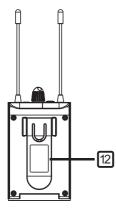
- 9. Power supply jack (DC12-18V / 500mA) Connecting the power supply unit
- 10. 6.35mm (1/4") audio input jack Connect the audio source, e.g. of mixer or computer
- 11. Volume control
- Adjust the volume level 12. TNC antennas socket

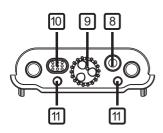
Connect the high gain antenna



Belt-pack Receiver Features







Body-pack Receiver

1. Antennas

1/4 wave length wire type antenna, it should be fully extended during normal operations

2. Backlit LCD

Display frequency and battery life, if the battery symbol blinks, the battery need to be replaced immediately

- 3. UP button Adjust the frequency, incrementally
- 4. SET button Menu control to set frequency
- 5. DOWN button Adjust the frequency degressively
- 6. IR infrared port Transmitter infrared beam to synchronize frequencies, hold the receiver with its IR port facing direct to Transmitter's IR port in a distance between 5-20cm.
- 7. Battery compartment

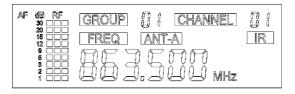
To replace batteries, slightly press the marked positions on left and right side of the cover and open forward, make sure to put the battery in the right polar directions.

- 8. Earphone audio output
 3. 5mm earphone audio output socket
- 9. Volume control Clockwise to enlarge, counter-clockwise to reduce
- 10.Light touch power switch Tap to turn on, long press (2 seconds) to turn off.
- 11.RF Indicator Antenna A and B indicator
- 12.Belt-clip Clip to the belt

1. Connect the included AC power supply to the rear of the receiver and turn on the receiver.

2. Standard Display

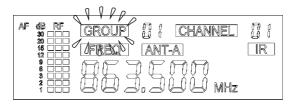
The standard display shows the preselected group, channel, RF power level.



Group

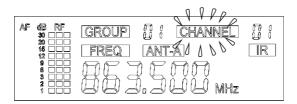
Push the SET button one time, the GROUP blink, Push the up and down buttons to set the desired group (01-10), Press SET again to confirm. The display will return to standard after a short period of time of non-activity automatically.

NOTE: Each group 01-10 consists of 10 channels, each corresponding to a specific frequency.



Channel

After the step of setting group, press the SET again, the CHANNEL blink. Push the up and down buttons to set the desired channel (01-10), Press SET again to confirm. The display will return to standard after a short period of time of non-activity automatically.



RF Power

After the step of setting channel, press the SET again, the POL "4" blink (as below picture1). Push the up and down buttons to set the desired RF Power level (1-4), Level 1 shows two lines of signals, the corresponding RF power is 1mW.

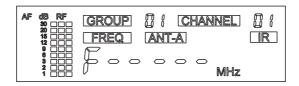
 $\ensuremath{\text{NOTE}}$: The larger RF power, the Longer distance.



IR Synch

Anytime press the SET button and hold for 1 second, the receiver start to send the infrared signals (as below picture), then put the belt-pack receiver's IR port close to the Transmitter / Main unit's IR port, the receiver has to be synchronized to the same frequency (group and channel) before using.

Note: The receiver have to be turned off and return- on while transmitter send infrared signals. After a successful sync, the receiver's blue LED RF indicator lights up.



Specifications

Transmitter (Main Unit)

Frequency Preparation Frequency Range Frequency Type Transmission Method Channels **RF Output Power Oscillation System Frequency Response** S/N Ratio T.H.D **Dynamic Range Operating Temperature** Display Audio Input Antenna **Power Supply** Dimensions(L*W*H)

Receiver (Belt-pack)

Frequency Preparation Frequency Range Transmission Method Type of reception Receive Sensitivity Output Earphone output Controls Indicators Interface Antenna Power Supply Operating Voltage Operating time Dimensions(L*W*H)

PLL Synthesized Control 902.25-926.75 MHz (Region dependent) F3E FM. Mono 100(10x10)1mW VCO 60Hz-17KHz+/-3dB ≥105dB <0.5% at 1KHz >100dB -10-+50°C Backlit LCD (63mm*22mm) 2*6.35mm Jack 1*TNC DC12V-18V/500mA 210*170*44mm

PLL Synthesized Control 902.25-926.75 MHz (Region dependent) FM, Mono Diversity -107dBm (sinad ≥30dB) 3. 5mm straight pin 3.5mmφ/ 16ohms 105mW Power ON//OFF, Volume, SET frequency LED (AF) Infrared 1/4 wave Length Wire Type 2*AA battery 3V 10h (depending on batteries) 110*63*21mm 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.



The specification won't do any further notice for the improvement

Actual product will not be as pictured