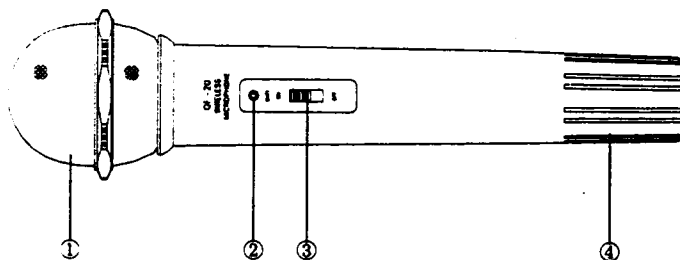


## Handheld Microphone

The handheld microphone operates on VHF high band frequency range 174-216MHz with quartz-locked control and integrates an antenna inside. Uni-directional dynamic or uni-directional condenser capsules with different characters for various choices. Use 1.5V x 2 AA size batteries for low operating cost.



## Description

1. **Screen Head:** Strong and firm grille to avoid take-apart.
2. **Low Battery LED:** LED indicates battery life status. Switching the power to "ON", the LED flashing momentarily means that power supply is normal. If the LED on light means that the batteries are in need of replacement soon. If the status LED fails to flash, the batteries are exhausted. Replace new batteries then.
3. **On/off Switch:** Switch the power to "ON" when you wish to use the microphone and to "OFF" to switch it off.
4. **Battery Cover/ Compartment:** Open the battery cover in counterclockwise. Insert two AA batteries into the compartment and make sure that the polarity of batteries is correct.

## **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 check the frequency labeled on the products.

### **A. Connecting the receiver to a mixer or an amplifier**

Use a standard 6.3mm jack cable to connect the UNBALANCED connector on the receiver rear panel to an unbalanced line input on the mixer or on the amplifier. Turn the VOLUME control on the receiver in clockwise to set the receiver output to microphone level.

### **B. Connecting the receiver to power**

1. Point the antennas 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.

### **C. Inserting batteries into the handheld / bodypack transmitter**

1. Open the battery cover and insert batteries into the battery compartment conforming to the polarity (+/-) marks. The transmitter can not work with incorrectly inserted batteries.
2. When push the ON/OFF switch to "ON" to switch the power on, the LED will flash momentarily.

If the batteries are in normal condition, the LED will extinguish. If the LED lights, the batteries are in need of replacement soon. If the LED fails to flash, the batteries are exhausted. Replace new batteries.

3. Shut the battery compartment closely.

### **D. Setting up the handheld transmitter**

1. Switch the receiver power on and check the frequency and volume level.
2. Switch the transmitter and hi-fi appliance (amplifier, tape deck etc.) power on.
3. Test the microphone and adjust the levels on your mixer or amplifier.

### **E. Setting up the bodypack transmitter**

#### **Connecting a microphone**

1. Plug the 3.5φ screw plug of the microphone cable into the audio input connector on the bodypack transmitter.
2. Switch the transmitter and then hi-fi appliance (amplifier, tape deck etc.) power on.
3. Test the microphone and adjust the levels on your mixer or amplifier.

## **NOTICE**

1. Before checking sound, move the transmitter around the area where you use the system to look for dead spots. If you find any dead spot, change the receiver position. If it does not work, avoid such places.
2. If undesirable noise occurs, adjust the SQUELCH control on receiver in clockwise to suppress it.

The higher squelch control, the lower the sensitivity of the receiver and decrease the service area of the system.

## **Trouble-shooting**

<b>Problem</b>	<b>Solution</b>
No sound	<ul style="list-style-type: none"><li>➤ Check the power supply of the microphone and receiver.</li><li>➤ Check that the transmitter and receiver are tuned to the same frequency.</li><li>➤ Check whether the hi-fi appliance is switched on and the receiver output is connected to mixer or amplifier input.</li><li>➤ Check whether transmitter is too far away from receiver or SQUELCH control set too high.</li><li>➤ Check whether receiver is located too near metal object or there are obstructions between transmitter and receiver.</li></ul>
Sound interference	<ul style="list-style-type: none"><li>➤ Check the antenna location.</li><li>➤ When using 2 or above microphone sets simultaneously, make sure that the frequencies are not interfered.</li><li>➤ Check whether the interference comes from other wireless microphones, TV, radio and etc.</li></ul>
Distortion	<ul style="list-style-type: none"><li>➤ Check the gain control for bodypack transmitter is set too high or too low.</li><li>➤ Check whether the interference comes from other wireless microphones, TV, radio and etc.</li></ul>

**Notice :** The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## 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.
3. Take out the battery from transmitter, if the appliance has been not used for a longer period. This will prevent from the damage that a defective leaking battery may cause.

## Environment

Do not throw used batteries into a fire or garbage bin with domestic rubbish. Be sure to dispose of used batteries in accordance with local waste disposal rules.

## Specifications

### Receiver

Carrier Frequency Range	: VHF band
Frequency Stability	: $\pm 0.005\%$ with quartz-locked control
S/N Ratio	: Over 94dB, at RF=1mV
Image and Spurious Rejection	: 80 dB minimum.
Receiving Sensitivity	: at 10 dB $\mu$ V over 80 dB S/N ratio.
Selectivity	: More than 50dB
Dynamic Range	: More than 96dB
Modulation Mode	: FM.
IF Frequency	: 10.7MHz
AF Response	: 50Hz to 15KHz ( $\pm 3$ dB)
T.H.D.	: Less than 1% (at 1KHz)
Audio Output	: Unbalanced: max. 500mV at 660 $\Omega$
Power Supply	: DC 12-18V
Dimensions	: 270(L) x 135(D) X 35(H) mm

### Handheld/Bodypack Transmitter

* Carrier Frequency Range	: VHF band
* RF Power Output	: 30mW (max.)
* Frequency Stability	: $\pm 0.005\%$ with quartz-locked control
* Maximum Deviation	: $\pm 15$ KHz
* Spurious Emission	: More than 50dB below carrier frequency
* T.H.D.	: Less than 1% (at 1KHz)
* Microphone Capsule	Handheld: uni-directional dynamic or uni-directional electret condenser unit Lavalier: uni-directional electret condenser unit
* Operating voltage	: DC1.5V x 2 AA size batteries
* Current consumption	: 35mA $\pm$ 5mA at 2.4V
* LED Indicator	: Power on-off and low battery