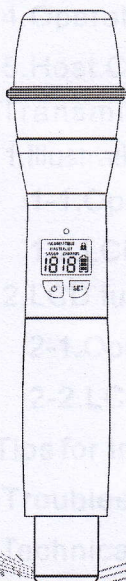


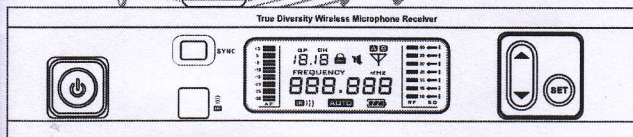


Operating Manual

High Quality Capsule/Digital Pilot Control/
Multi Channel Application/Anti-interference



True Diversity Wireless Microphone Receiver



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A. Instruction for security and warranty

1. Please read this operating manual carefully before installation and use, and keep this manual for later reference.
2. Cleaning: please turn off the power supply before you clean the units, and wipe with the dry and soft cloth.
3. Do not use any unmatched accessories without the permission of the factory.
4. Do not put the equipment on the environment of wet or high temperature to avoid risk to happening.
5. Power Supply: USA/Japan: AC 110V-120V 60Hz
Europe: AC-220V-240V 50Hz
6. When it is lightning, please pull off the power plug to protect the equipment
7. If the equipment will not be used for a long time, please turn off the power or even pull off the power plug, and take off the batteries in the transmitter.
8. Please contact the dealer directly when you have any needs for maintenance or after service for the equipments, and do not disassemble the equipment by yourself.

B. Warranty Policy

All the equipments will have 12 months for free maintenance except the man-made damage, such as:

1. Fell and broken by man-made reason.
2. Damaged by disoperation.
3. Disassemble the equipment by yourself and damaged or lost components.

For equipments over the warranty policy, we also offer maintenance service with reasonable cost.

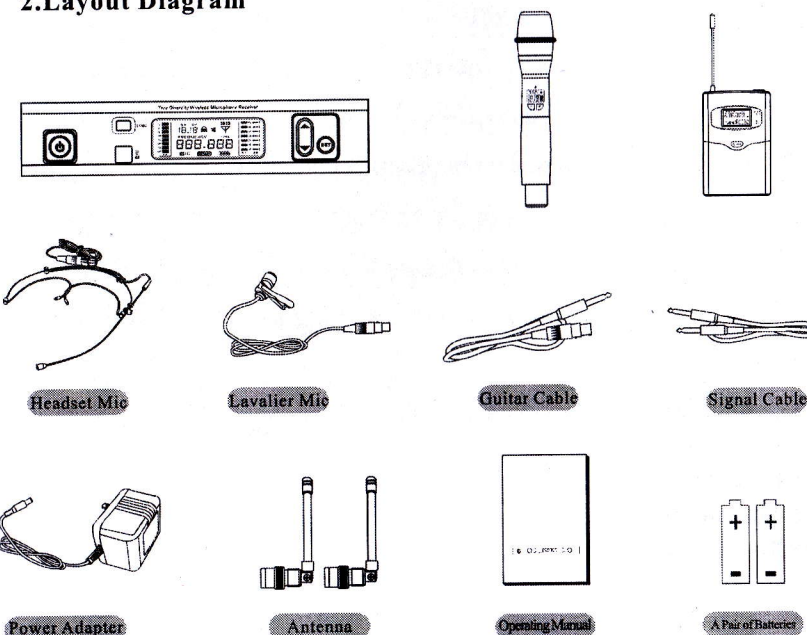
C. System Overview

1. Function Instruction

This professional wireless microphone system uses USA RF transmitting technology with features of high efficiency and low consumption, with ultra high sensitivity UHF receiver and PLL of more than 10ppm to lock frequency. With features of dynamic companding circuitry, image frequency rejection, double detecting squelch circuit, True Diversity receiving circuit, Switch Impact elimination circuit and anti feedback circuit etc., it adopts PC EDA, simulating assistant design online and with strict quality control, which ensures the excellent performance for each system.

The system is composed of a receiver, a transmitter: a handheld or body pack (headworn microphone, a lavalier microphone and guitar connecting wire for alternative), and a power adapter, and equipped with a signal wire, a pair of AA batteries and a user guide.

2. Layout Diagram



Power Adapter

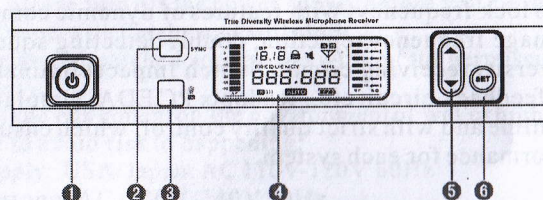
Antenna

Operating Manual

A Pair of Batteries

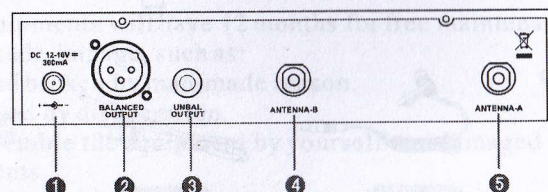
D.Receiver

1.Front Panel



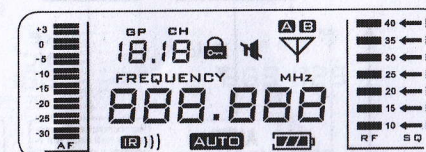
- ①Power button
- ②IR button, synchronize transmitter and receiver, when the IR port is flashing for 10 seconds.
- ③IR window.
- ④LCD display.
- ⑤Menu.
- ⑥System set.

2.Rear Panel



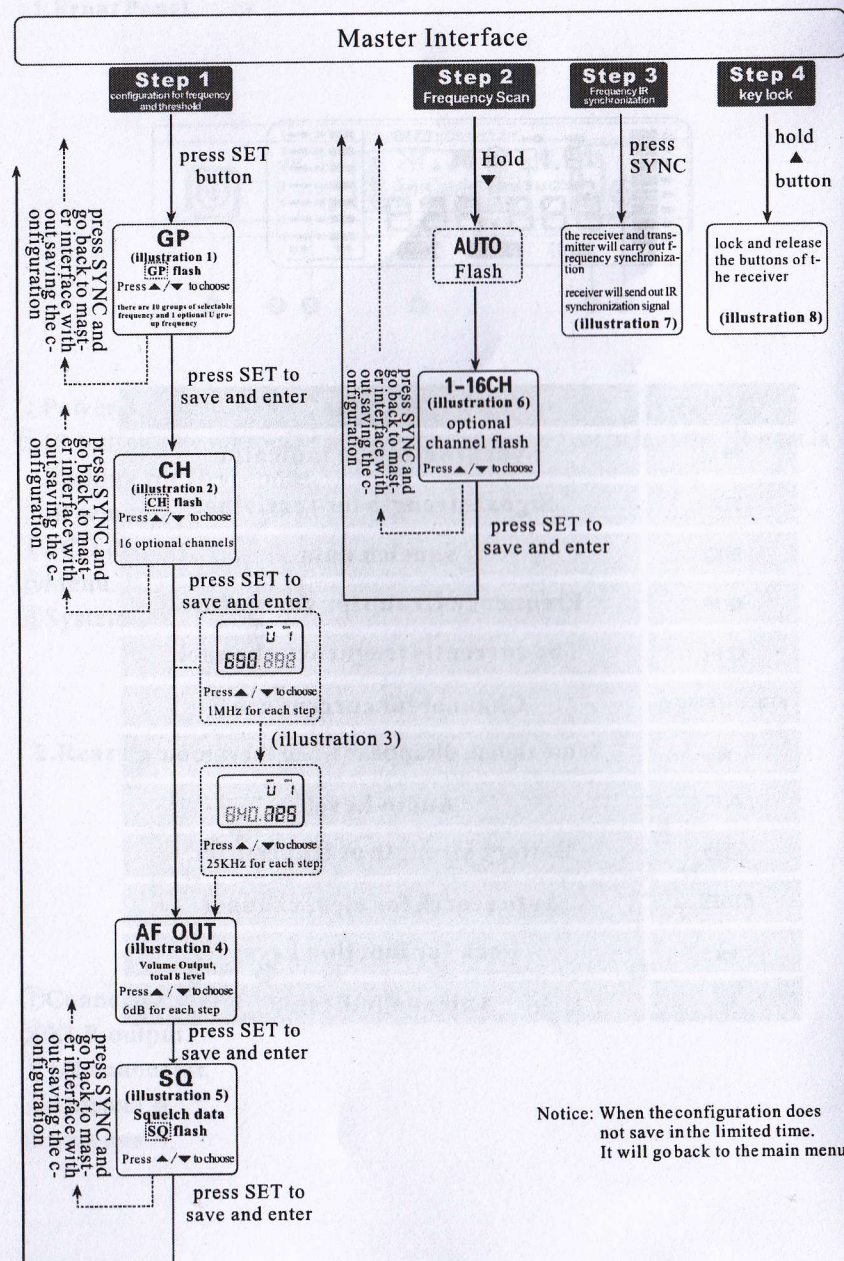
- ①Connector for AC power adapter.
- ②XLR output.
- ③1/4 connector.
- ④Antenna B.
- ⑤Antenna A.

3.Function for LCD of the receiver



Display	Function
IR))	Synchronization indicator
RF	Signal strength for receiving
SQ	Squelch data
GP	Frequency Group for current use
CH	The currently frequency channel
FREQUENCY	Channel for current use
Mute icon	Mute signal, disappear when the mic on
AF	Audio Level
Battery icon	Battery strength of transmitter
AUTO	Auto search for clear channel
Lock icon	Lock for function keys
A/B	Antenna indicator

4.Operation for Receiver



Notice: When the configuration does not save in the limited time.
It will go back to the main menu

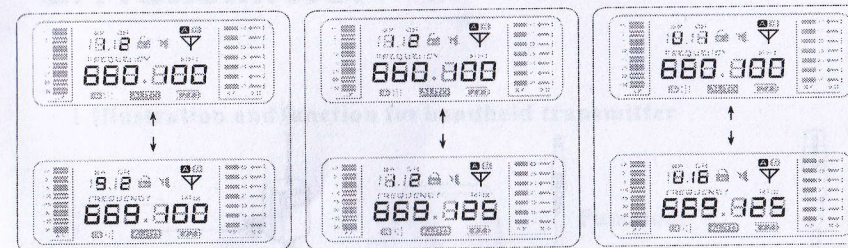


Illustration 1

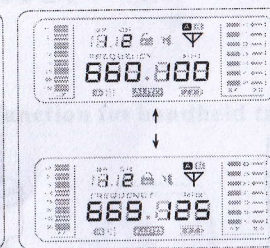


Illustration 2

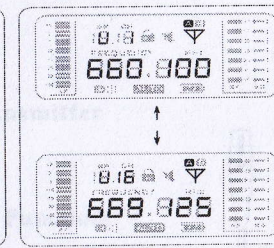


Illustration 3

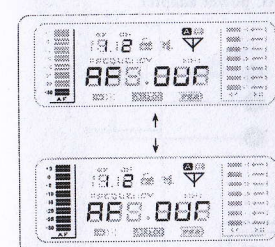


Illustration 4

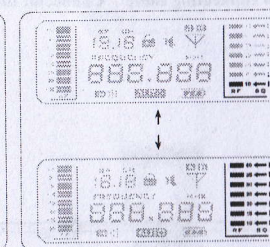


Illustration 5

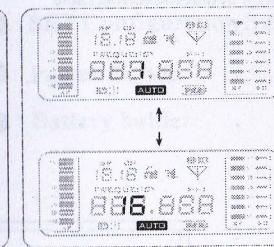


Illustration 6

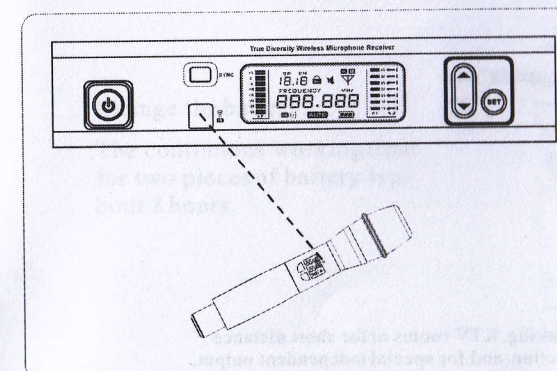


Illustration 7

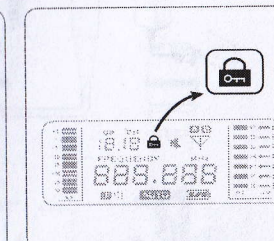
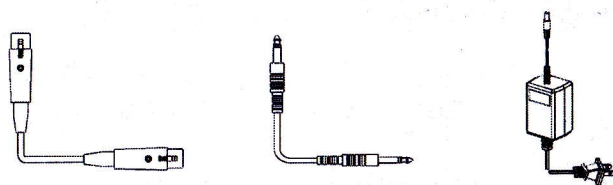
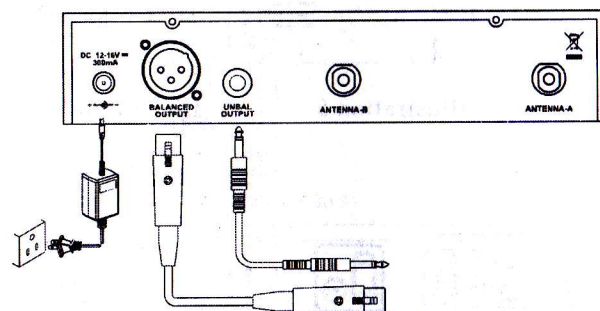


Illustration 8

5. Instruction for installation and connection



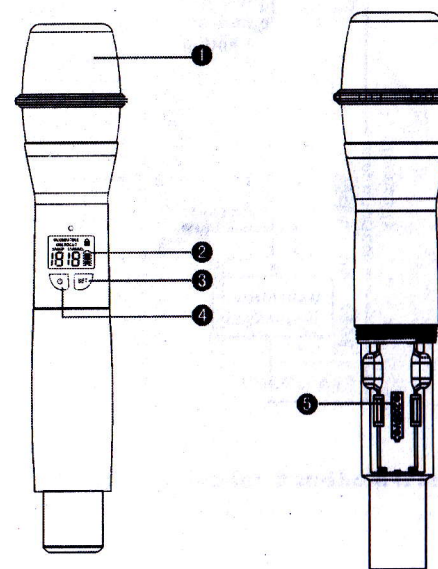
XLR output connecting cable 1/4 connecting cable Connector for AC power adapter



1/4 and XLR output, generally speaking, KTV rooms or for short distance application, you can use 1/4 connection, and for special independent output, you can use XLR output.

E. Transmitter

1. Illustration and function for handheld transmitter

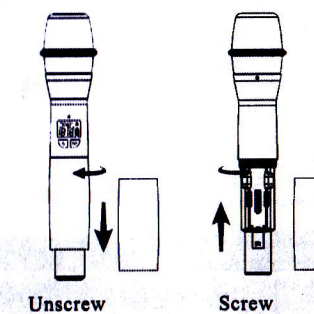


Function:

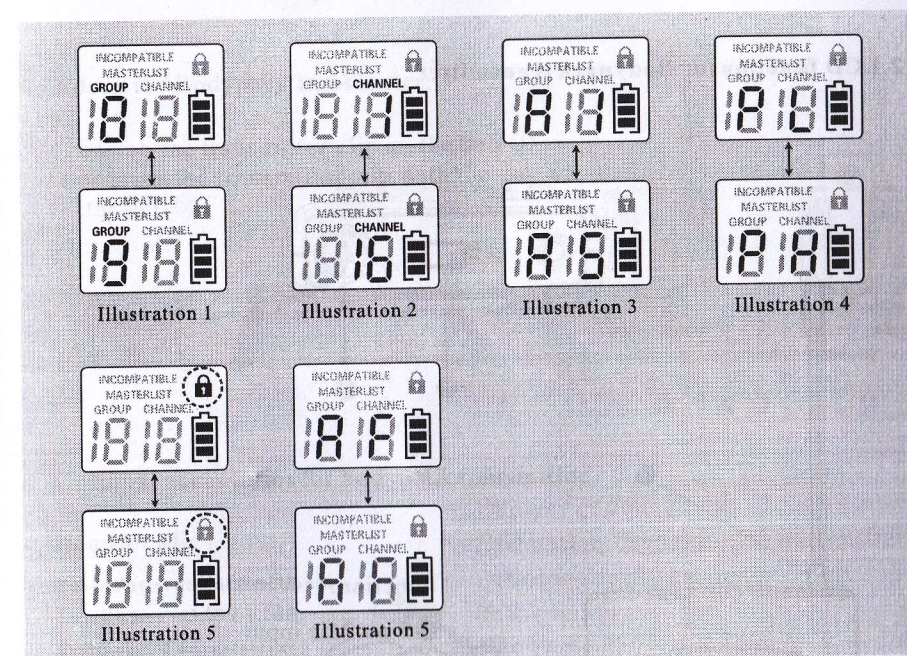
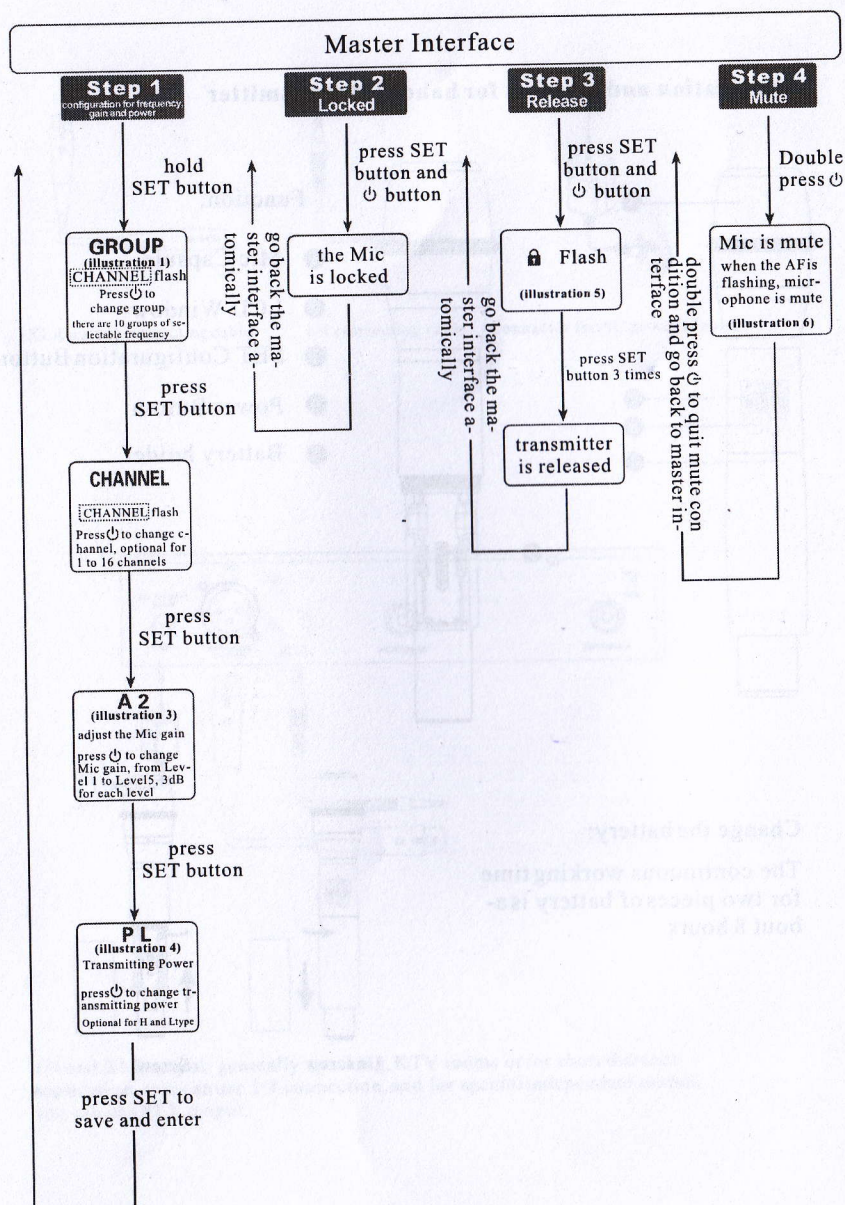
- ① Mic Capsule
- ② LCD Window
- ③ SET Configuration Button
- ④ Power Button
- ⑤ Battery holder

Change the battery:

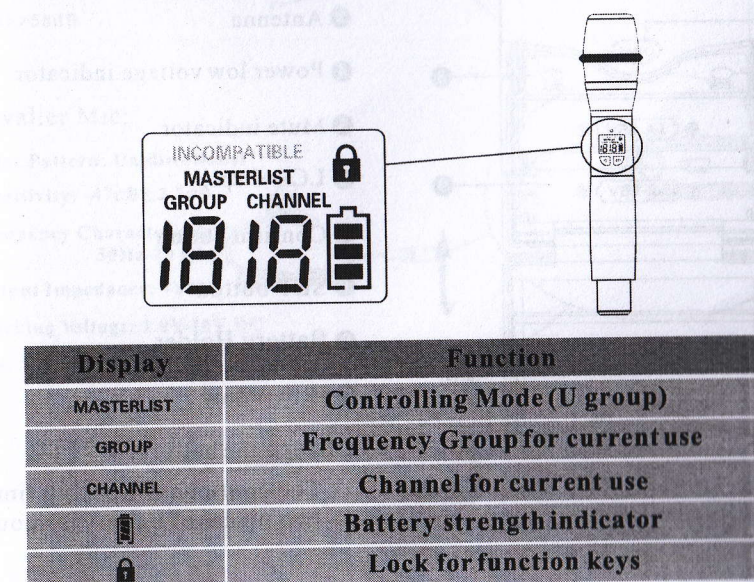
The continuous working time for two pieces of battery is about 8 hours.



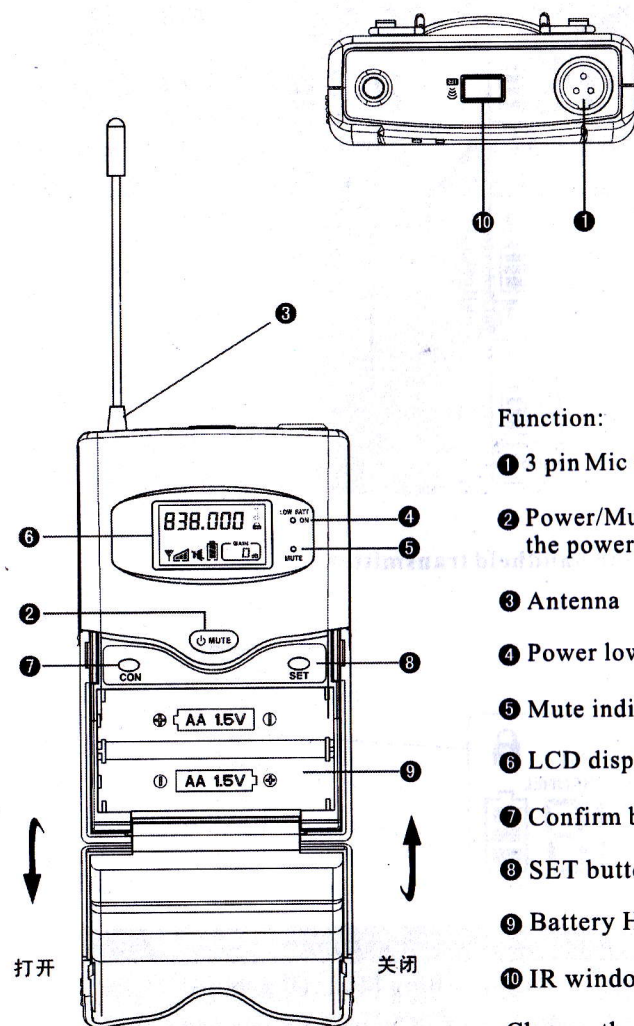
1-1.Operation for handheld transmitter



1-2.LCD function for handheld transmitter



2. LCD function for Bodypack transmitter



Function:

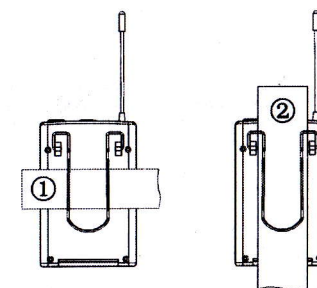
- ① 3 pin Mic input
- ② Power/Mute button: hold to turn on/off the power, press for mute
- ③ Antenna
- ④ Power low voltage indicator
- ⑤ Mute indicator
- ⑥ LCD display
- ⑦ Confirm button
- ⑧ SET button
- ⑨ Battery Holder
- ⑩ IR window

Change the battery:

The continuous working time for two pieces of battery is about 8 hours

Adorn the Bodypack transmitter:

Fasten the transmitter clip on the belt ①, or cross the transmitter clip with the guitar belt ②.



Optional accessories for bodypack transmitter:

Headset Mic

Polar Pattern: Unidirectional

Sensitivity: $-43\text{dB} \pm 2.2\text{dB}$

Frequency Characteristic:
70Hz-16 KHz

Output Impedance: $<2.2\text{K}\Omega$

Working Voltage: 1.0V-10V DC

S/N: $>58\text{dB}$

Lavalier Mic:

Polar Pattern: Unidirectional

Sensitivity: $-47\text{dB} \pm 2.2\text{dB}$

Frequency Characteristic:
50Hz-20 KHz

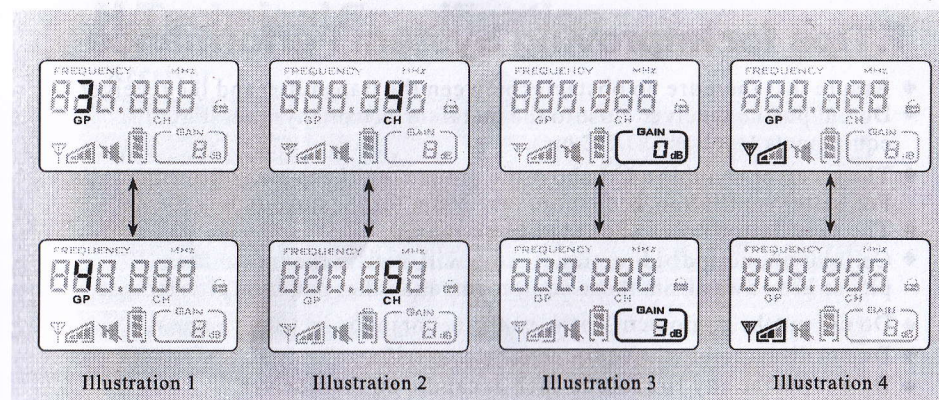
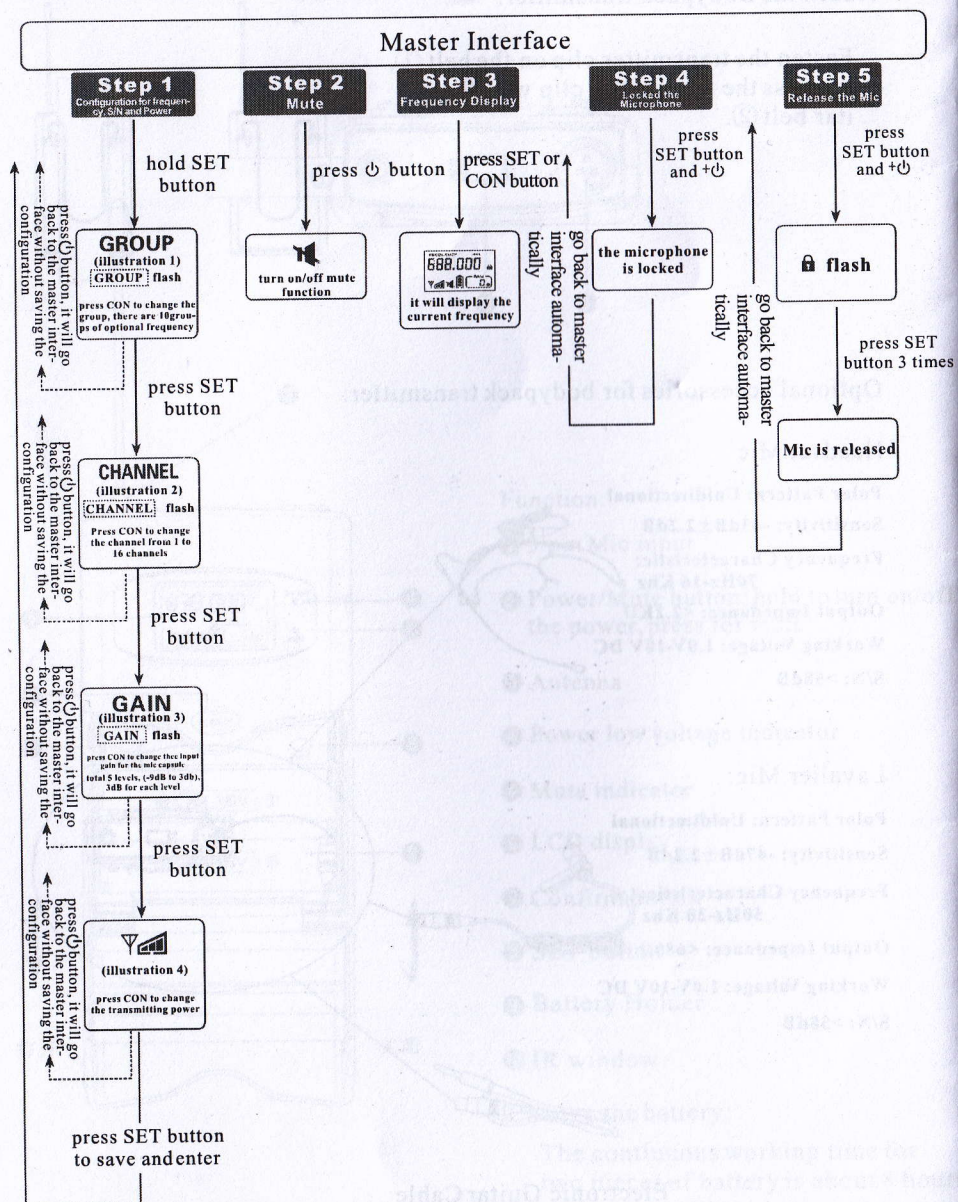
Output Impedance: $<680\Omega$

Working Voltage: 1.0V-10V DC

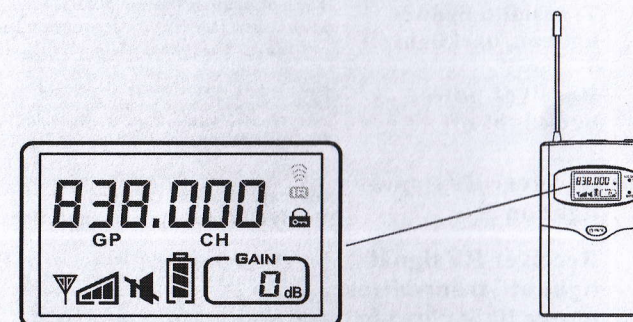
S/N: $>58\text{dB}$

Electronic Guitar Cable

2-1.Operation for Bodypack transmitter



2-2.LCD function for Bodypack transmitter



Display	Function
GP	Frequency Group for current use
CH	Channel for current use
GAIN	Gain adjustment for microphone
Battery icon	Battery strength display
Lock icon	Lock for function keys
Mute icon	Mute
Transmitting power icon	Transmitting power

F.Tips for Improving System Performance

- ◆ Assure that there are no obstacles between the transmitter and the receiver.
- ◆ Do not put the receiver close to the metal surface or any other digital equipments (such as CD, PC etc).
- ◆ The receiver should be 1M above the ground, and keep away from the walls. For better ventilation, keep more than 20cm for the surrounding distance.
- ◆ The ventilation holes should not be covered.
- ◆ Cellular phone and bidirectional radio will interfere the transmitter, please keep away from these equipments and other potential interference.
- ◆ Do not put the equipment on the sunshine, or in the wet environment.
- ◆ Do not disassemble the equipment by yourself.
- ◆ Do not put the any fire source such as a candle on the receiver.
- ◆ Please put used batteries to the appointed recycle box.
- ◆ The working temperature for the equipment is -5°C~+50°C

G.Troubleshooting

Issue	Indicator Status	Solution
No sound or faint sound	Transmitter power light on, backlight off	Turn on transmitter; Make sure the +/— indicators on battery match the transmitter terminals.
	Receiver power backlight off	Make sure AC adapter is securely plugged into electrical outlet and into DC input connector on rear panel of receiver. Make sure AC electrical outlet works and is supplying proper voltage.
	Receiver RF signal light on	Increase receiver volume. Increase transmitter gain. Verify all sound system connections.
	Receiver RF signal light off, transmitter power light glowing	Remove nearby metal objects. Check if any barriers between receiver and transmitter. Tune receiver and transmitter to the same frequency.
	Transmitter low power light on	Replace transmitter batteries.
Distortion or unwanted noise bursts	Receiver RF signal light on	Remove nearby sources of RF interference (CD players, computers, digital effects, in-ear monitor systems, etc.) Change receiver and transmitter to a different frequency. Reduce transmitter gain. Replace transmitter batteries. If using multiple systems, change the frequency of one of the active systems.
Distortion level increases gradually	Transmitter low power light on	Replace transmitter batteries.
Sound level different from cabled guitar or microphone, or when using different guitars	Adjust transmitter gain and receiver volume as necessary	Adjust transmitter gain and receiver volume as necessary

H. Technical Specification

Receiver

Frequency Range	600-900MHz
Max channel	160
Band width	25MHz
Sensitivity	-105
S/N	>105dB (A)
T.H.D.	<1%
Audio Output Level	8dBu max
Power Supply	12-16V DC, current 500MA, external power supply

Handheld Transmitter

Frequency Range	600-900MHz
Band width	50MHz
Harmonic Restrain	>55dBc
Max Deviation	±48KHz
Frequency Response	50Hz-15KHz (-3dB)
S/N	>105dB (A)
Distortion	<1%
Battery	2*AA battery
Continuous Working Time for Battery	>8 hours

Bodypack Transmitter

Frequency Range	600-900MHz
Band width	50MHz
Harmonic Restrain	>55dBc
Max Deviation	±48KHz
Frequency Response	50Hz-15KHz (-3dB)
S/N	>105dB (A)
Distortion	<1%
Battery	2*AA battery
Continuous Working Time for Battery	>8 hours