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KOMISON KMS-IEM420 UHF Wireless System

Specifications

- **Case specification:** standard 1U metal
- **Case material:** panel
- **Oscillation mode:** PLL synthesized
- **Frequency stability:** 0.005% UHF510
- **Frequency range:** 510.6- 589.6 MHz
- **Max Deviation:** 48 KHz
- **Frequency response:** 50Hz~15KHz ±3dB
- **Transmit output power:** 100mW (500)

Product Usage Instructions

Transmitter Front Panel Instructions

1. Power switch
2. **LED display:** shows the operation of each item and setting
3. **Earphone volume potentiometer:** adjusts the volume of the earphone
4. **6.35mm earphone output socket:** connects the stereo earphone for monitoring the output signal

Transmitter Back Panel Instructions

The back panel of the transmitter includes the following elements.

1. Antenna
2. **Right channel potentiometer:** adjusts volume
3. **Left channel potentiometer:** adjusts volume
4. **Right channel input:** XLR or 6.35mm input
5. **Left channel input:** XLR or 6.35mm input
6. **DC power:** connects to a 9V DC power input socket, with positive voltage at the outlet center

Transmitter Operation Instructions

1. In the default interface, press the ‘INFO’ button on the transmitter to view the group and channel number set by the current transmitter.
2. Press ‘SET’ on the lavalier.
3. Press↑’ key to adjust the same group number as the transmitter.
4. After selecting the group, press ‘SET’ to switch to the channel selection.
5. Press↑’ key to adjust the same channel number as the transmitter.
6. Press the ‘SET’ key to confirm, and the lavalier will set the new frequency.
7. The transmitter and the lavalier are successfully paired when the RF light of the lavalier is green.

Preface

- Before usage, please read the instruction manual carefully and keep the instruction manual properly for future needs.
- Thank you for choosing our wireless in-ear monitor system.
- In order to guarantee you use this product well, please read this instruction booklet carefully before using, understand the correct operating procedures, to obtain the best effect.

Security and Environment

1. Keep the facility under cool conditions, and do not put this machine in a site that is high temperature, moist, dusty, or close to liquid stuff.
2. Do not open the machine in case of Fire or electric shock risk.
3. Can only use the power adapter that the machine offers and confirm whether the

working power voltage is fit for the adapter’s access specification.
    - It may be damaged if using an adapter that is supplied by another distributor.
4. Turn off the machine and pull out the adapter when you leave for a long time.

Product presentation

1. This wireless in-ear monitor system is used in stage performance and sound broadcast, which can replace traditional complex sound monitoring equipment, achieving an admirable listening effect.
2. With using the latest high frequency transmission and audio signal dynamic processing technology, also improve the signal to noise ratio of the dynamic range so that the system has the best anti-interference to show the perfect original sound again.

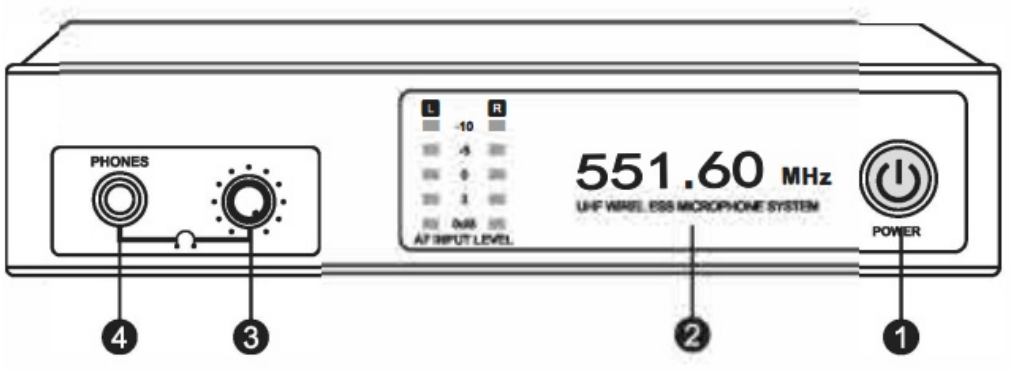
Main features

- UHF band Phase lock PLL
- Among the band of 40MHz, the preset 80 frequencies can be arbitrarily switched
- The dynamic expansion circuit greatly improves to signal-to-noise ratio
- Elegant liquid crystal display panel
- With power and RF receiving indicator lamp
- By using two AA batteries and an efficient power circuit, a long service time
- Metal housing, sturdy and durable
- The transmitter adopts a balanced and unbalanced sharing socket
- The transmitter has with output monitoring phone jack

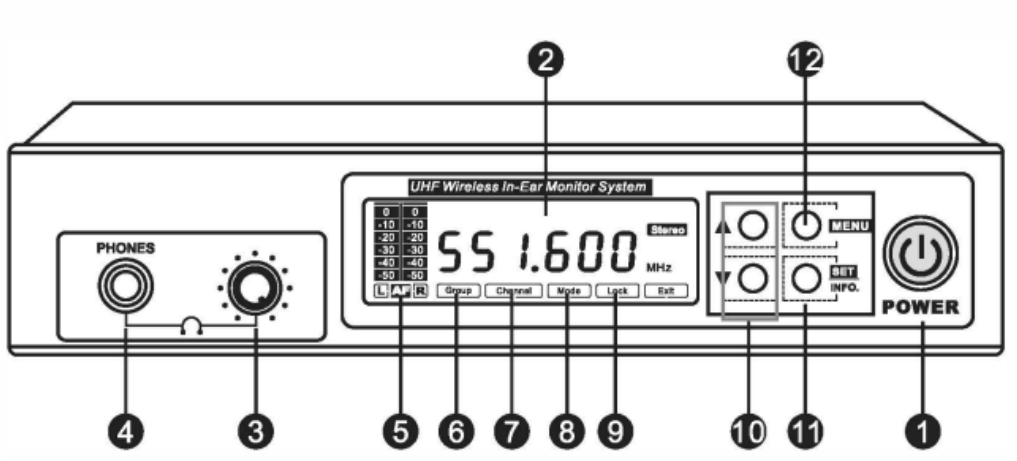
Main function

- The system consists of a mini receiver and transmitter combination, and its main function and characteristics are described below.
- Among the band of 40MHz, you can preset 80 frequencies that can be set arbitrarily.
- By using advanced circuit design, clear the receiving blind angle to make the system’s receiving signal steady.
- The system is strongly resistant to falling because the housing is made of tough metal material. It is the best choice of a stage performance monitor product.

The front panel instructions of the transmitter



1. Power switch
2. LED display: shows the operation of each item and setting
3. Earphone volume potentiometer: Adjust the volume of the earphones
4. 6.35mm earphone output socket: connecting the stereo earphone, monitoring the output signal



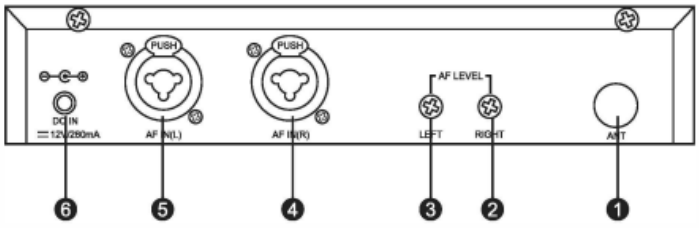
1. Power switch.
2. LCD: shows the operation of each item and setting.
3. Earphone volume potentiometer: Adjust the volume of earphones.
4. 6.35mm earphone output socket: connecting the stereo earphone, monitoring the output signal.
5. AF input.
6. Group: frequency group.
7. Channel: frequency channel.
8. Limiter mode: When limiter mode is on, the transmitter will limit the volume input within a certain range to avoid the input being too big.
9. Lock or unlock.
10. ▲▼up and down selection keys.
11. **Info:** In the original default menu interface, press this key to switch between

different displays:

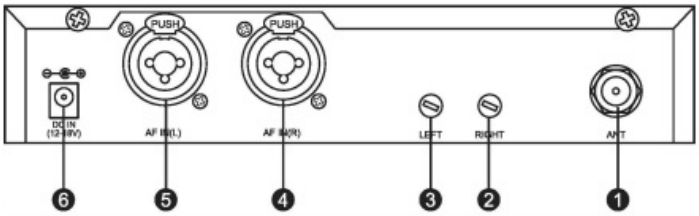
- **Display 1:** current group and channel information;
- **Display 2:** current frequency display.
- **Set:** confirm.

12. Menu selection key.

The back panel instructions of the transmitter

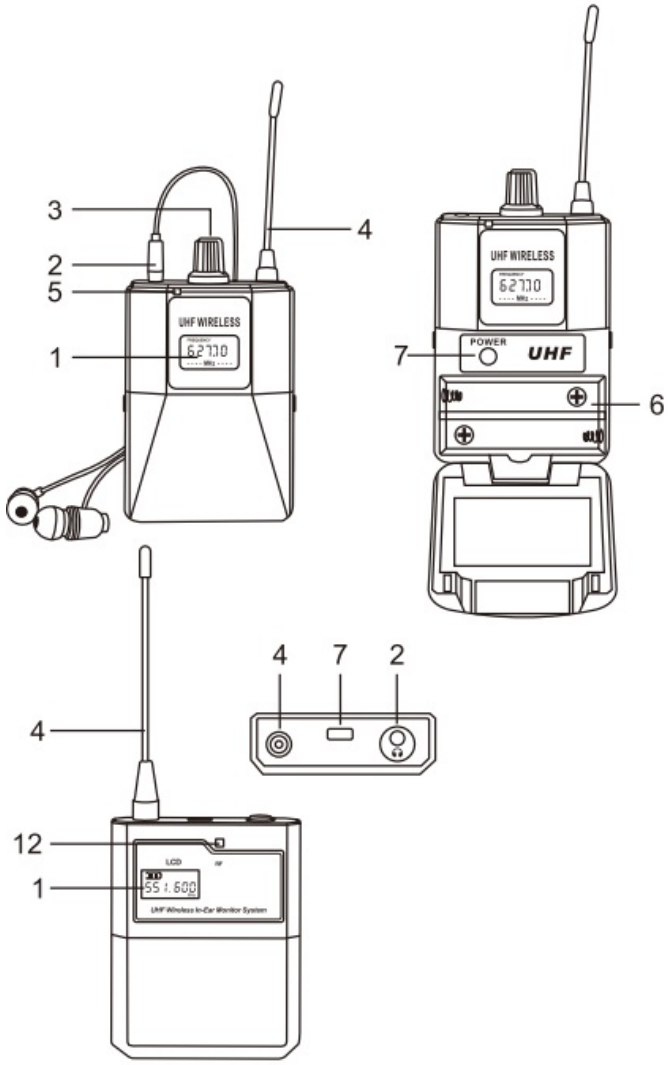


1. Antenna
2. Right channel potentiometer: adjust volume
3. Left channel potentiometer: adjust volume
4. Right channel input: XLR or 6.35mm input
5. Left channel input: XLR or 6.35mm input
6. DC power: connecting a 9V DC power input socket, the voltage of the outlet center is positive.

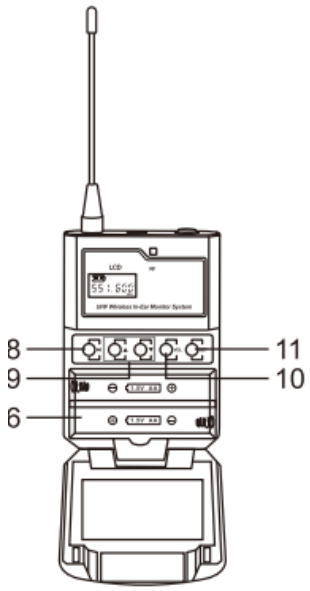


1. Antenna
2. Right channel potentiometer: adjust volume
3. Left channel potentiometer: adjust volume
4. Right channel input: XLR or 6.35mm input
5. Left channel input: XLR or 6.35mm input
6. DC power: connecting a 9V DC power input socket, the voltage of the outlet center is positive

Bodypack Receiver

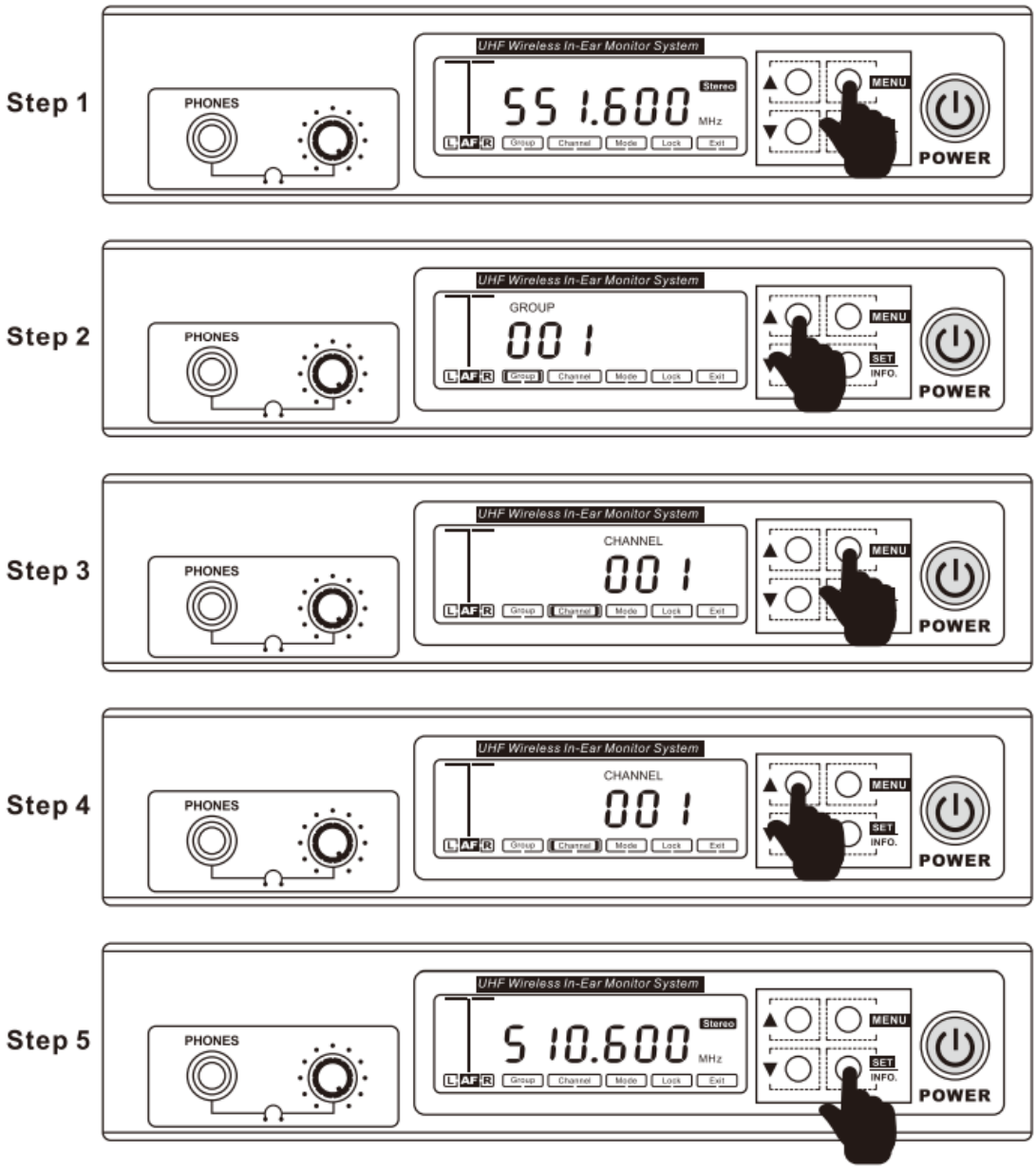


1. LCD/LED: Display working content
2. 3.5mm headphone output: connect the headphone
3. Volume potentiometer: adjust volume
4. Antenna: assemble a fixed antenna
5. Indicator light:
    - **Green light:** receiving signal indication;
    - **Red light:** low power indication
6. Battery warehouse: Use 2 AA batteries
7. Power switch: turn on or turn off
8. Pause
9. ▲▼Up and down selection keys
10. VOL
11. SET: Confirm
12. Indicator light: indicates receiving signal information



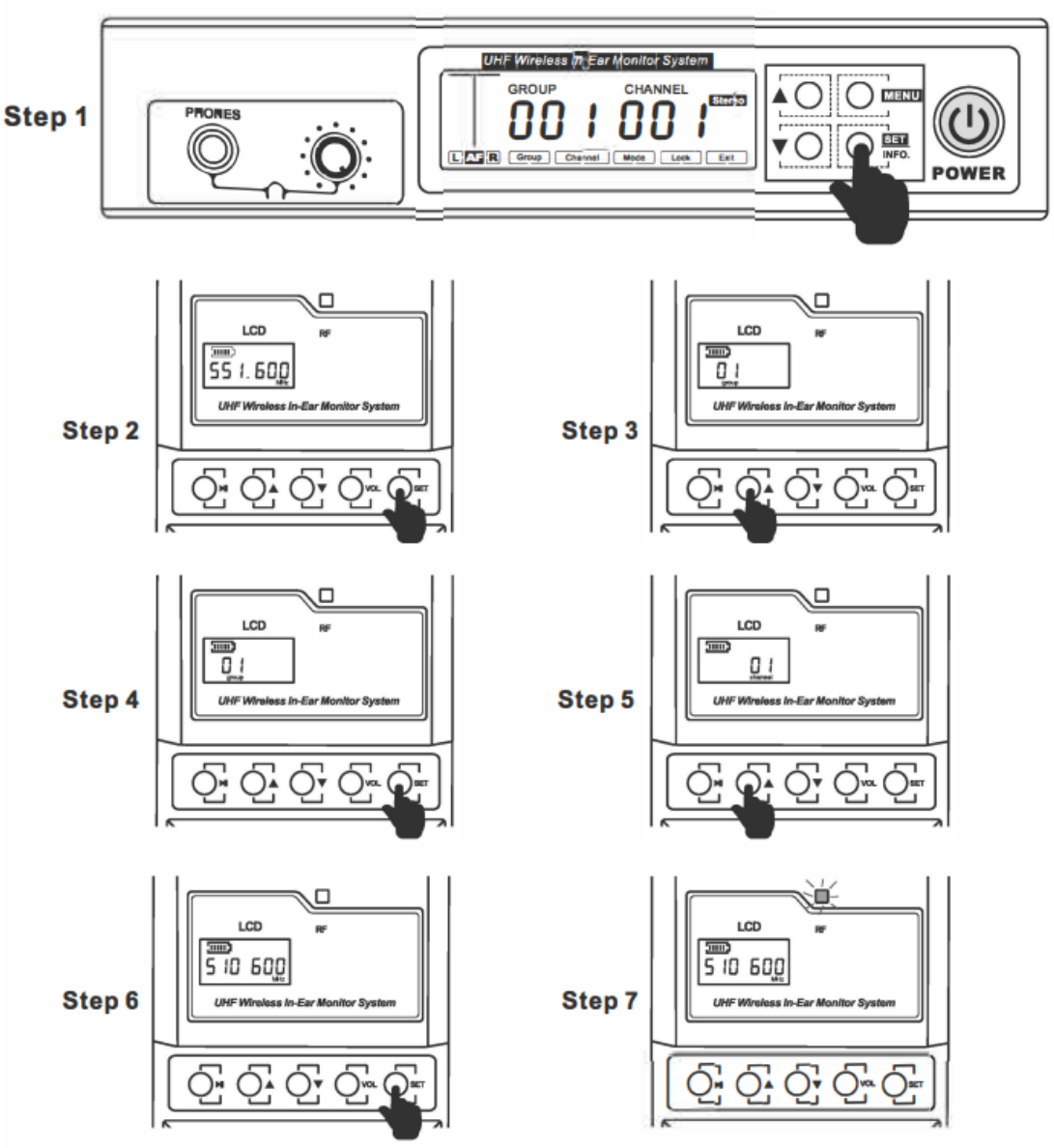
FM method

Transmitter operation:



1. Press the ‘MENU’ button to select ‘GROUP’
2. ↑ ↓Key to select the group number
3. After selecting the group number, press ‘MENU’ to switch to the ‘CHANNEL’.
4. The ↑ ↓key to selecting the channel number
5. After selecting, press ‘set’ to confirm, the transmitter will set the new frequency

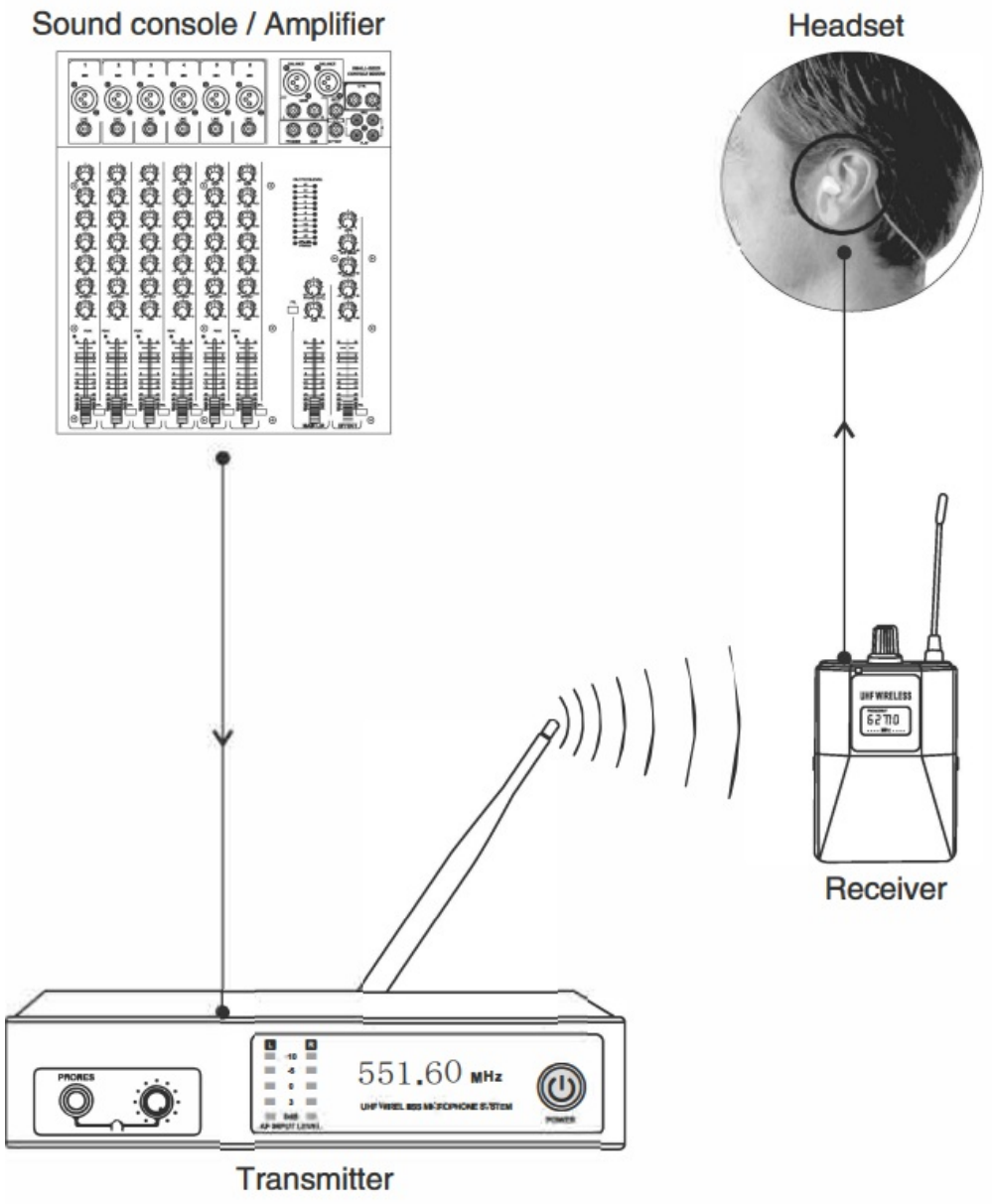
Transmitter operation:

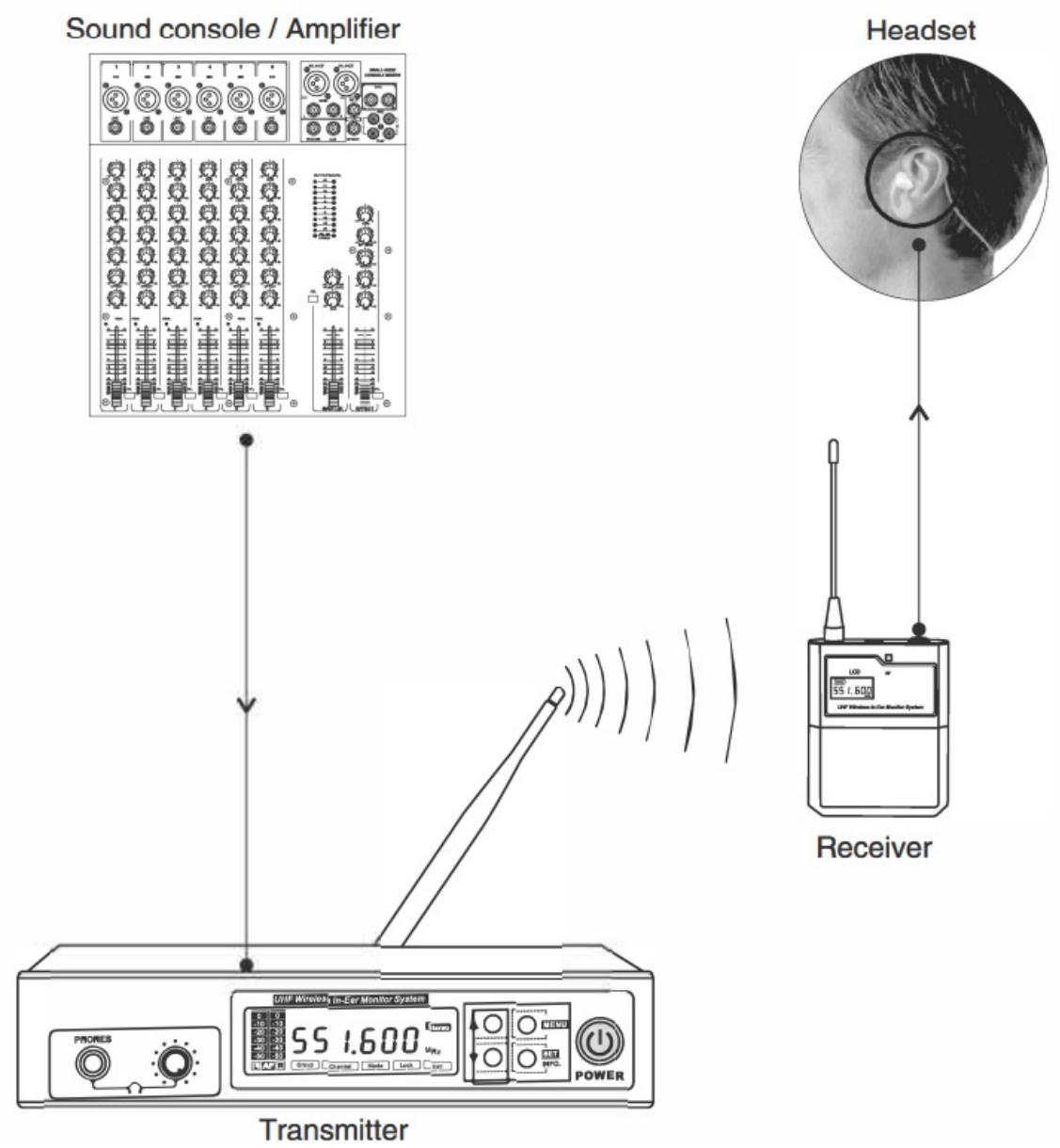


1. In the default interface, you can press the ‘ INFO ‘ button on the transmitter to view the group and channel number set by the current transmitter.
2. Press SET on the lavalier.
3. Press ↑ ↓ the key to adjust the same group number as the transmitter.
4. After selecting the group, press ‘ SET ‘ to switch to the channel selection.
5. Press ↑ ↓ the key to adjust the same channel number as the transmitter.
6. Press the ‘ SET ‘ key to confirm, the lavalier has set the new frequency.

7. The transmitter and the lavalier are successfully paired, and the RF light of the lavalier will always be green.

Usage illustration instruction





Technical Data

Transmitter

Case specification:	standard 1 U metal
Case material:	panel
Oscillation mode:	PLL synthesized
Frequency stability:	±0.005%UHF510
Frequency range:	510.6~589.6MHz
Max Deviation:	±48KHz
Frequency response:	50Hz~15KHz±3dB
Transmit output power:	100mW(50Ω)
Harmonic radiation:	<4NW
AF input:	XLR, ϕ6.35mmjack
Earphone output:	ϕ6.35mm stereophonic socket
Earphone load impedance:	⩾16Ω
Current consumption:	DC 9V 500mA
Antenna socket:	BNC socket (50Ω)

Receiver

Oscillation mode:	PLL synthesized
Frequency stability:	±0.005%
Frequency range:	UHF510.6~589.6MHz
Receiving mode:	single tuning
Sensitivity:	deviation 25 KHz, with connecting 7dBuV, S/N>78dB
Max Deviation:	±48KHz
Comprehensive S/N ratio:	>94 db (1KHZ–A)
Comprehensive T.H.D:	<3%@1KHz
Frequency response:	80Hz~15KHz±3dB
Output power (32Ω):	2X35mw@1KHZ
Earphone load impedance:	≥16Ω
Output socket:	ϕ3.5mm stereo earphone socket
Volume output adjusts:	adjust when using
Power box:	batteries AAX2
Current drain:	3V/120mA(Under the mediant degrees of the volume control)
Antenna:	fixed 1 / 2λ

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference,
2. This device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This equipment has been tested and found to comply with the limits for a Class B digital device, under 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 under the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Suppose this equipment does cause harmful

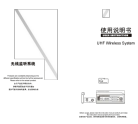
interference to radio or television reception, which can be determined by turning the equipment off and on. In that case, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to 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.

Frequently Asked Questions

- **Q: Can I use this wireless system for outdoor events?**
  - **A:** Yes, this UHF Wireless System can be used for outdoor events within its frequency range of 510.6- 589.6 MHz.
- **Q: How do I adjust the volume on the transmitter?**
  - **A:** Use the potentiometers on the front and back panels to adjust the volume for each channel.

Documents / Resources

	KOMISON KMS-IEM420 UHF Wireless System [pdf] Instruction Manual 2A3NZ-KMS-IEM420, 2A3NZKMSIEM420, KMS-IEM420 UHF Wireless System, KMS-IEM420, UHF Wireless System, Wireless System, System

References

- User Manual

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2A3NZ-KMS-IEM420, 2A3NZKMSIEM420, KMS-IEM420, KMS-IEM420 UHF Wireless System, KOMISON, System, UHF Wireless System, Wireless System

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