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### Feature Abstract

- IWM PRO and IWM PRO Double use a latest high fidelity technology of UHF wireless transmission to ensure the superb clear original sound.
- True diversity reception can ensure no blind point or dropout during long range transmission, maximum receiving range is up to 300m with stable signal.
- Receiver is equipped with a TFT display and has multiple equalization mode adjustments to meet different demands of use to make a better sound quality.
- Receiver has 32 groups of channel, pre-set 6000 selectable frequencies.
- Simple to operate, with features of quick spectrum scan and channel setup to avoid interference from other wireless devices in the same location.
- Supports the simultaneous use of 20 sets, antenna bridge feature may connect multiple receivers, transmitters may use ID identification feature to quickly find corresponding receivers.
- English and Chinese menu switch on receiver
- Receiver has lock feature to avoid accident change of setup
- IWM PRO and IWM PRO Double is a wireless mic system with features of high quality sound, reliable and stable signal, multifunctional and easy-of-use, designed for a complex stage environment and a location requires a very long distance transmission, it may definitely meet your high demand of sound quality.

### Frequency Selection

IHMOS can provide different frequency band options for the wireless system that comply with government regulations in different countries or regions. These regulations help limit the interference of radio frequency (RF) between different wireless devices, And it can prevent interference with local public communication channels such as television and emergency broadcasting. The receiver and transmitters are labeled with the system's band and frequency range. For example, "610MHz-698MHz". For information on the available bands in your region, please consult your local dealer or call us to check. You may also go to our official website for more details.

### Group and Channel

To transmit audio signals through a wireless system, the transmitter and receiver must be set to an identical radio frequency or channel. Because each microphone must use a different channel. A large channel selection range allows users to use more microphones simultaneously. It also provides a wider selection of available channels - these channels are away from interference from television broadcasts, electronic devices, or other wireless systems. A group is a combination of a series of compatible channels. By setting channels in the same group, wireless microphones can achieve better performance.

### Frequency Automatic Scanning

The following functions can scan the radio frequency environment to find the best group and channel settings for specific installations.

Channel scanning: Find the best available channel in the current selection group and set up it for the receiver.

### Spectrum Analyzer

This feature can scan audio signals transmitted by multiple wireless systems in the same environment, and then stagger the channels between the system and other wireless devices, this can avoid channel interference issue.

### Interface Lock

This feature can lock the transmitter and receiver, so user cannot change setup.

**Product parts and components**  
**All systems include:**



Receiver



Receiver's Antenna X2



Quarter Inch Audio Cable X2



Rechargeable Battery  
for Handheld Mic X2



Charging Cable X2



Power Adapter

**Handheld Transmitter Includes:**



Handheld Transmitter

**Bodypack Transmitter Includes:**



Bodypack Transmitter

## IWM PRO Button of front panel and interface of rear panel for receiver

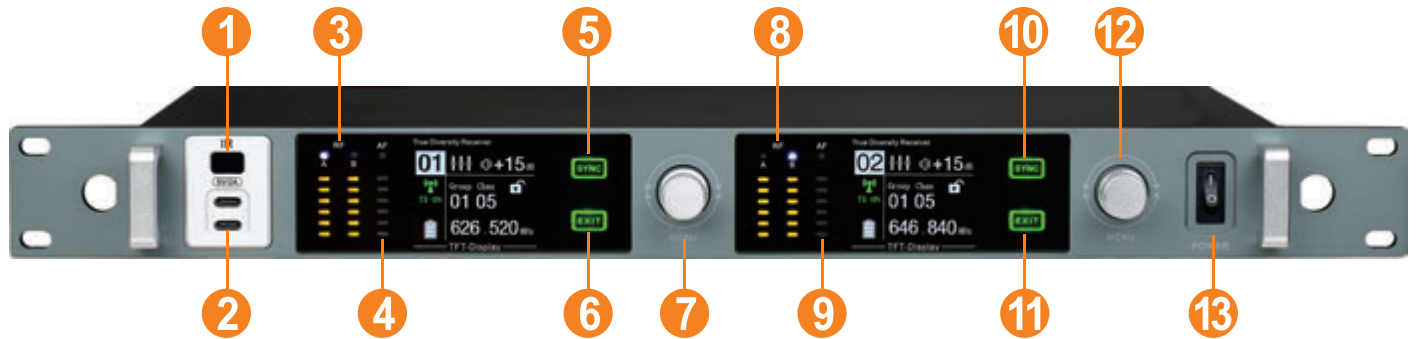


1. Sync window
2. TYPE-C charge port
3. Radio frequency signal strength for channel A of RX
4. Audio signal strength for channel A
5. SYNC button for Channel A
6. Return/cancel button for Channel A
7. Menu knob for CH A , push to enter menu/confirm, rotate left/right to select
8. Power switch



1. Quarter inch audio output for channel A
2. Audio balanced output for channel A
3. Antenna input
4. Antenna power switch
5. Power socket

## Button of front panel and interface of rear panel for receiver

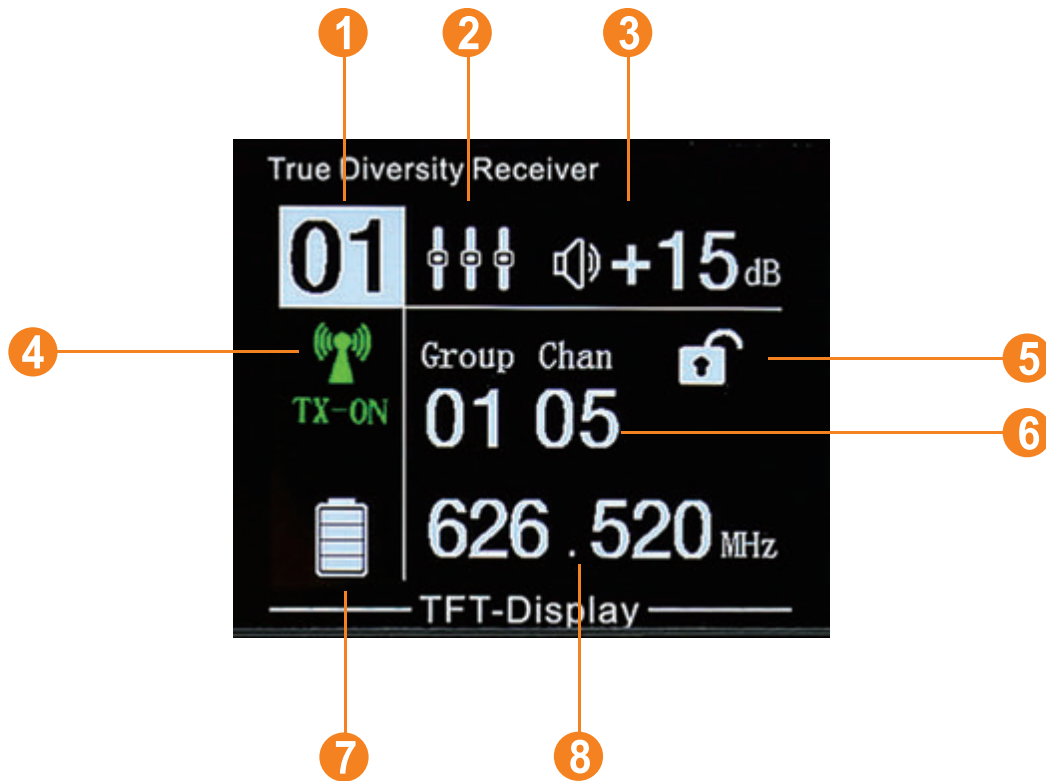


1. Sync window
2. TYPE-C charge port
3. Radio frequency signal strength for channel A of RX
4. Audio signal strength for channel A
5. SYNC button for Channel A
6. Return/cancel button for Channel A
7. Menu button for CH A , push to enter menu/confirm, rotate left/right to select
8. Radio frequency signal strength for channel B of RX
9. Audio signal strength for channel B
10. Sync button for Channel B
11. Return/cancel button for Channel B
12. Menu knob for CH A , push to enter menu/confirm, rotate left/right to select
13. Power switch



1. Quater inch audio output for channel A
2. Audio balanced output for channel A
3. Antenna input for channel A
4. Antenna output for channel A
5. Antenna power switch
6. Cable rack
7. Quater inch audio output for channel B
8. Audio balanced output for channel B
9. Antenna input for channel B
10. Antenna output for channel B
11. Feature selection of quater inch output for channel B, up means mixed output of Channel A+B
12. Power supply socket

## Interface of Receiver



1. Corresponding ID code to transmitter

2. Equilibrium value status

3. Mic volume -30~+15dB, 3dB each step

4. Working status of transmitter

TX-ON: Good

TX-OFF: Closed or sync failed

5. Lock receiver

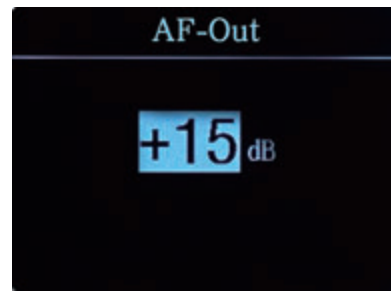
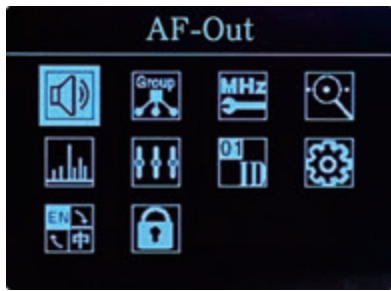
6. Chan means Channel, When Group is OU, user can set up frequency themselves

7. Power status of transmitter

8. Currently operating frequency

## TFT display of receiver

### Menu



AF-Out: Adjust volume, -30~+15dB, 3dB each step



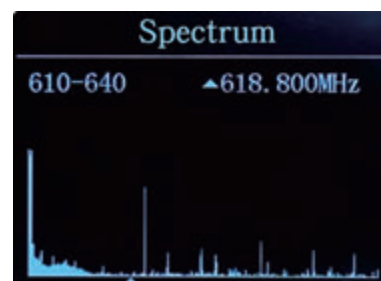
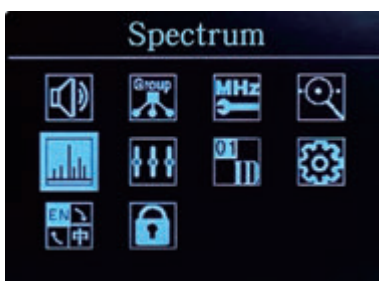
Preset: Preset or find the frequency used last time



Tuning: Adjust frequency manually to use different ones



Scan Frequency: Auto scan to find and set a best frequency in a working environment



Spectrum: Scan the surrounding interference frequencies, adjust manually to use other clean frequencies to avoid interference

### TFT display of receiver

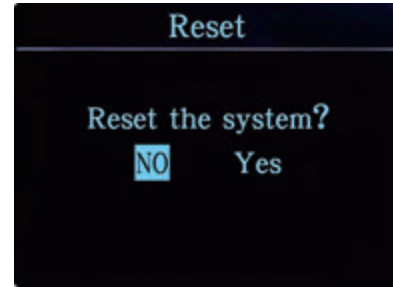
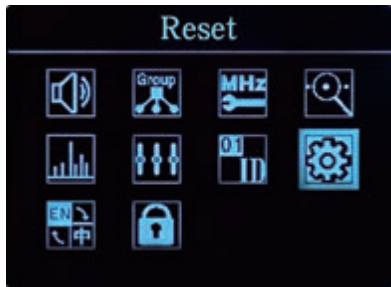
#### Menu



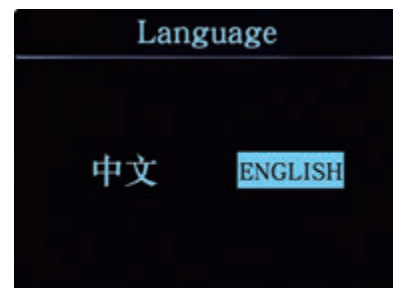
Equalizer: it has 4 modes, user can use them flexible



ID Set: 01~99, Set corresponding ID codes to transmitters when using multiple G4 devices



Reset: Factory reset



Language: Menu in English and Chinese



Lock : Unlock to set menu feature before entering into menu if it is in Lock mode



## Features of Bodypack Transmitter



1. Antenna

2. Display

3. 4 pin XLR Port

4. Antenna Connector

5. IR sync window

6. Power Switch ( Long Press)

7. Up Button

8. Feature Menu Button ( Short Press)

9. Down Button

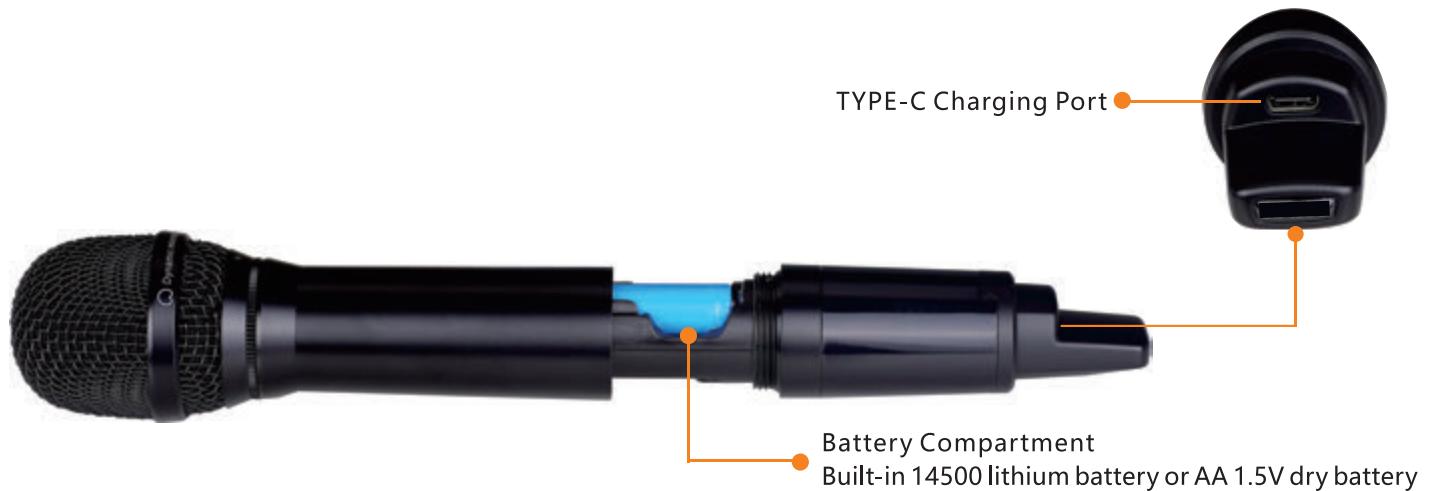
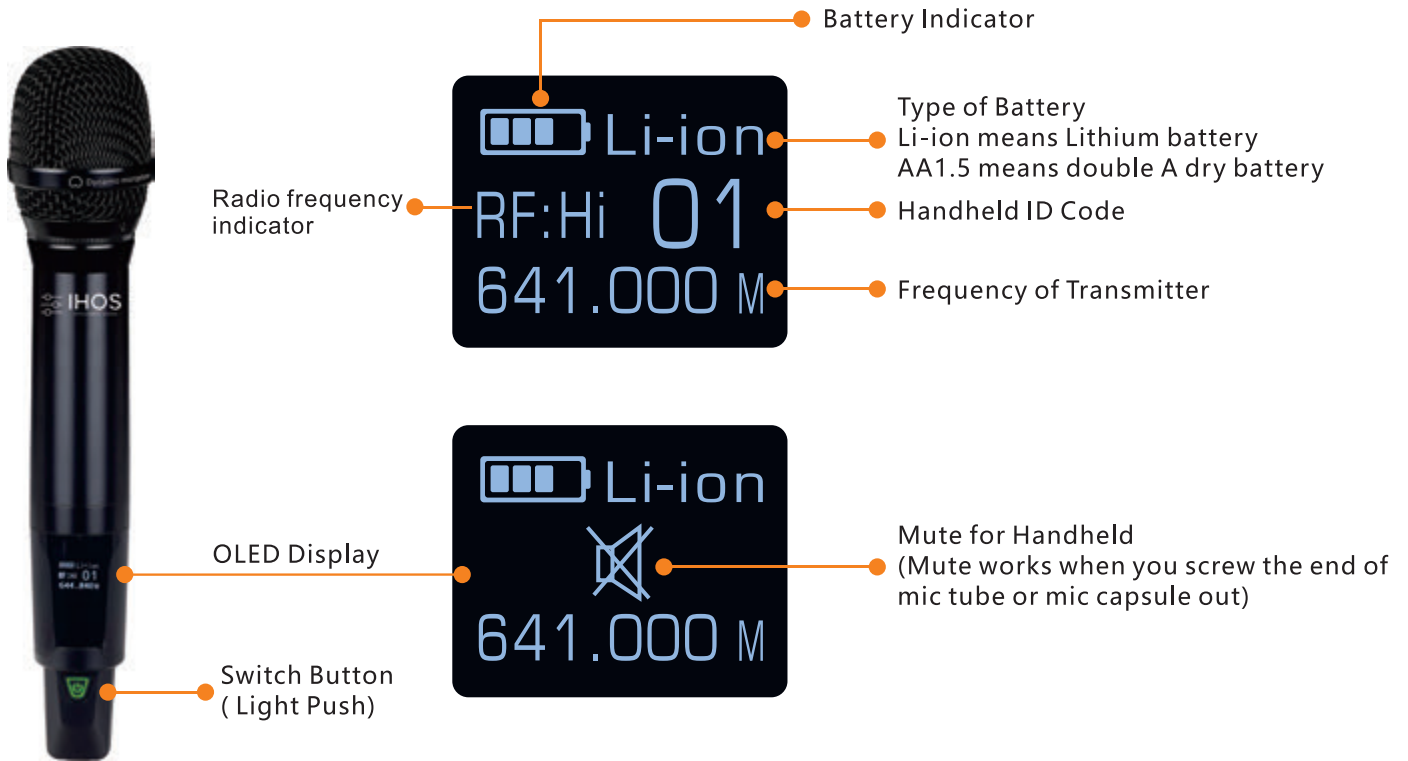
10. Battery Compartment

## Interface of Bodypack Transmitter



1. Corresponding Code Between Transmitter and Receiver
2. Current working Frequency of Bodypack Transmitter
3. Gain (+4dB+6dB+10dB each step)
4. Bodypack Transmitter Power (Hi or Low)
5. Battery Indicator

## Handheld Transmitter Interface of Handheld



## SYNC operating guide between transmitter and receiver



1. Open battery compartment, you will see infrared IR port
2. Push SYNC button on receiver, IR interface starts flashing
3. Face directly the infrared IR port of handheld or bodypack transmitter to the receiver's IR interface
4. If frequencies are identical between transmitter and receiver, receiver will display TX-ON, indicating that they paired
5. IWM PRO Double is a dual channel system, to SYNC channel A, push CH A's SYNC button, Ch B does the same way

## Troubleshooting

Problems	Solutions....
No Audio	Power supply, cable or radio frequency
Small sound or distortion	Gain
Operating range is short, sudden noise or signal dropout	Radio frequency
Cannot change frequency setup or program the receiver	Lock interface

### Power supply

Ensure transmitter and receiver are powered by proper voltage. Receiver should be powered by the original power adapter. Check the transmitter's battery indicator, change battery or charge in time if required.

### Gain

Adjust transmitter's gain

### Cable

Check if all cables and connectors work well

### Feature

- Get transmitter SYNC or make sure transmitter and receiver are set in an identical group and channel
- Check frequency label on transmitter and receiver to ensure that they are working in an identical frequency range

### Reduce interference

- Work in different channels or perform auto scan for group or channel
- When multiple systems are working, user should check if all systems are set to the channels in an identical group (systems in different frequency ranges need to be set in an identical group)
- The transmitter and receiver antennas should maintain a straight relative position without obstacles
- Keep the receiver antennas away from metal objects or other radio frequency interference sources such as CD players, computers, digital effects devices, network switches, network cables, and personal stereo monitors (PSM)

## Specification for RX and TX

### Receiver

Frequency Range	610-698MHz
Frequency Bandwidth	42M/60M
Maximum Number of Channels	6000
Receiving Sensitivity	-105dBm/S/N=12dB
Frequency Stability	+ -10PPM
Antenna Input	2*BNC/50Ω
Antenna Output	2*SMA/50Ω
Image Rejection	>100dB
3rd Order IMD Suppression	>75dB
Block Suppression	>75dB
Adjacent Channel Rejection	>110dB (+-200KHz)
Signal-To-Noise Ratio	≥110dB
Power Supply	1500mA

### Handheld

Frequency Range	610-698MHz
Frequency Bandwidth	88M
RF Power	10/30mW
Max Frequency Deviation	65KHz
Power Requirements	1*14500 Lithium Battery or 1*1.5V AA Battery
Battery Life	1*14500 Lithium Battery, 9-10 hrs (high power level); 13-14 hrs ( low power level)

### Bodypack

Frequency Range	610-698MHz
Frequency Bandwidth	88M
RF Power	10/30mW
Max Frequency Deviation	65KHz
Power Requirements	Built-in lithium battery
Battery Life	8-10 hours