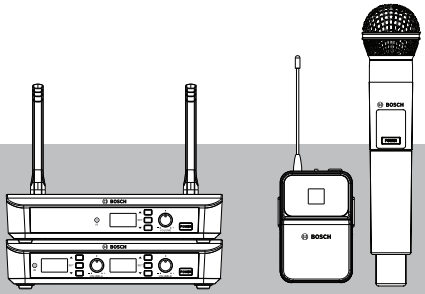
MWD Microphone series

MWD-HK | MWD-HHK | MWD-HBK



en User manual

Safety

- Read this manual carefully before starting to use the devices.
- The wireless microphone is a radio frequency device that generates and radiates RF energy. Improper installation and use can cause harmful interference to radio communications. Comply with local radio regulations while using this device.
- This product operates on the frequency range of 560 MHz - 610 MHz. Select frequencies that conform to local radio regulatory requirements. We are not liable for any issues that arise from not abiding to local regulations.
- Place the receiver in an open area to make sure you have a stable signal reception. Avoid enclosed dead spaces.
- Do not drop, throw or strike the unit.
- The device is not waterproof. Keep it away from water and rain. Do not expose the unit to splashing water. Do not place liquid-filled containers, like vases, on it.
- Avoid direct sunlight and strong electromagnetic fields.
- Unplug the power adapter if the receiver is idle for an extended period.
- Do not disassemble the unit arbitrarily, which can cause personal injury.
- Clean the unit with a soft dry cloth. For stubborn stains, use neutral detergent. Never use gasoline, paint thinner or other volatile solvents.
- Maintain a minimum clearance of 30 cm around the device for proper ventilation.
- Do not block ventilation holes with newspapers, tablecloths, curtains or other items.
- Keep open flames, such as lit candles, away from the device.
- The device works normally at an ambient temperature of 5 °C to 55 °C.

Battery* precautions

- Install the batteries correctly. Remove the batteries if the device is not used for a long time to prevent electrolyte leakage.
- Always power off the device before replacing the batteries.
- Do not mix new and old batteries. Only replace the batteries with the same type or equivalent models.
- Dispose of waste batteries in designated recycling bins.

***Batteries not included with the products.

Short information

Copyright

We retain full copyright and the final right of interpretation for this manual. No part of this manual can be copied or reproduced in any form. Although great care was taken during compilation, we assume no liability for any errors or omissions in the content.

Warranty

The device contains no user-serviceable parts. Unauthorized disassembly or modification voids the warranty.

System overview

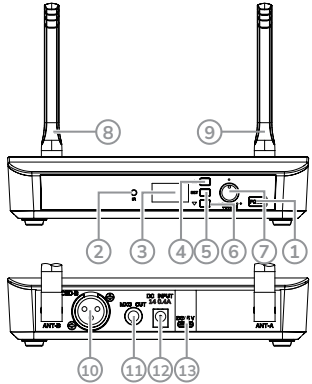
The wireless microphone features flexible mobility and an ergonomic design, combining practicality and convenience. It is ideal for performers. Equipped with intelligent encrypted hardware, our wireless system delivers outstanding sound quality and RF performance. The innovative frequency grouping technology simplifies deployment, enabling easy frequency selection even in multi-device environments.
The receiver is fitted with a TFT display, while handheld microphones have an LCD screen. Intuitive menu controls keep the operation of the devices simple. This high-performance wireless microphone system will fully meet your usage needs.

Main features

- Operates on UHF a 560 MHz - 610 MHz band to effectively avoid signal interference.
- Exclusive digital ID pilot technology with up to 16-digit random ID codes completely eliminates crosstalk between devices on the same frequency.
- Optimized power consumption designed for extended battery life of microphones.
- Single-chip circuit design with multi-frequency point selection function.
- Widely applicable for large and small stages, karaoke venues, conference halls, speeches and home entertainment.
- Effective operating distance of 80 meters in open areas.

Components

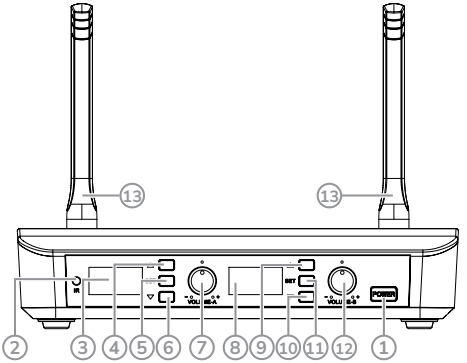
Single channel receiver



1	Power switch	8	Antenna A
2	Receiver IR window	9	Antenna B
3	TFT display	10	XLR balanced output
4	Frequency up button	11	Mixed output
5	Unlock / set / frequency pairing button	12	DC power input
6	Frequency down button	13	Type-C charging port
7	Volume control knob		

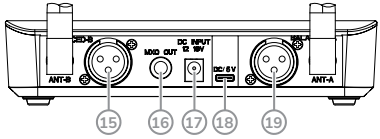
Dual channel receiver

Front side



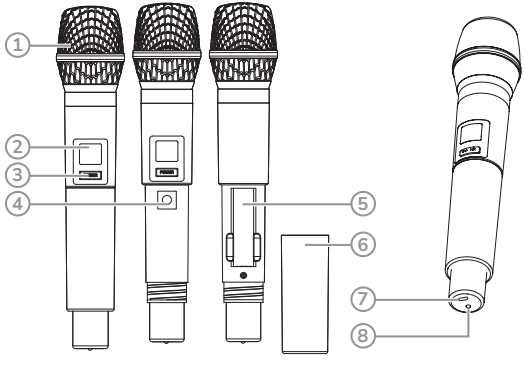
1	Power switch	8	Channel B TFT display
2	Receiver IR window	9	Channel B frequency up button
3	Channel A TFT display	10	Channel B unlock / set / frequency pairing button
4	Channel A frequency up button	11	Channel B frequency down button
5	Channel A unlock / set / frequency pairing button	12	Channel B volume control knob
6	Channel A frequency down button	13	Antenna A
7	Channel A volume control knob	14	Antenna B

Rear side



15	Channel B XLR balanced output	18	Type-C charging port
16	Mixed output	19	Channel A XLR balanced output
17	DC power input		

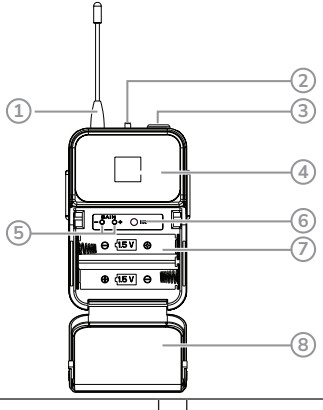
Handheld microphone



1	Microphone head	5	Battery sink: Insert 2x 1.2 V NI-MH rechargeable batteries or 2x 1.5 VAA batteries in the correct polarity

2	LCD display: Working status	6	Microphone cap: Fasten the batteries
3	On / off / mute switch	7	USB-C charging input: Charge the microphone. The battery should be rechargeable
4	IR Window: synchronize IR signal with the receiver's IR window	8	Charging indicator light: – Red: Charging in progress – Green: Charging complete

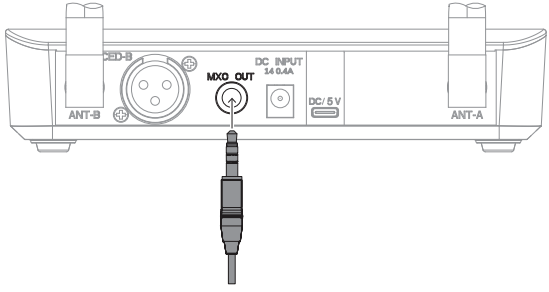
Bodypack microphone



1	Microphone antenna	5	Volume adjustment
2	On / off / mute switch	6	IR Window: Infrared pairing signals
3	Input socket: Mini XLR	7	Battery sink: Insert 2x 1.5 VAA batteries in the correct polarity
4	LCD display: Working status and battery level	8	Battery cover: Fasten the batteries

Operation

Receiver



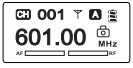
1. Connect the supplied power adapter to the DC power input port.
2. Connect one end side of the accompanying audio cable Mixed input port.
3. Connect the other end side into the MIX IN or AUX IN ports for loudspeakers or amplifiers.
4. Turn the volume knob to the minimum level.
5. Turn on the power switch.
   The receiver is connected.
6. Adjust the volume appropriately after the receiver is fully operational.

TFT Display

001 66 MHz	Current working channel and operating frequency	A	Current working channel
	Remaining battery power of the connected microphone		Lock / unlock status of the receiver

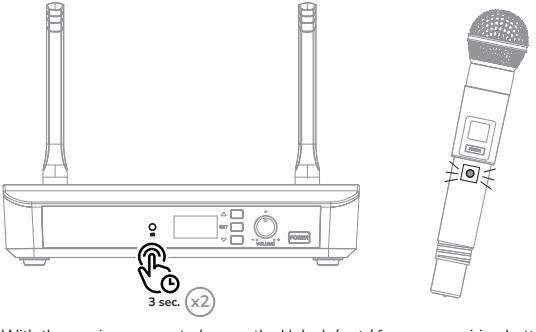
AF	Audio level: Longer bars indicate higher volume	RF	RF signal strength: Longer bars indicate stronger received signal

Channel setting mode



1. Turn the power of the receiver to enter the normal working mode.
2. Press the Unlock / set / frequency pairing button for three seconds to unlock the receiver.
3. Press the Frequency up / down buttons to select the appropriate channel.

Synchronize receiver and microphone

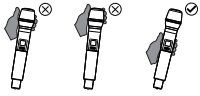


1. With the receiver connected, press the Unlock / set / frequency pairing button for three seconds to unlock the system.
2. Press the same button for more three seconds.
   The receiver's IR indicator flashes and starts transmitting an IR signal.
3. Connect the wireless microphone.
4. Keep the IR window of the microphone against the IR window of the receiver.

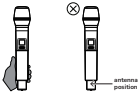
When the IR synchronization is successfully, the same frequency appears on both the receiver and the microphone. The RF indicator on the receiver is on.

Handheld microphone

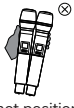
– Do not touch the microphone head.



– Do not held the microphone through the antenna.



– Do not use two microphones in the same hand.



– Do not position the microphone more than 15 cm away from your mouth.
– Do not point the microphone head to loudspeakers.

Some tips on how to best use the microphone are:
– For optimal sound pickup, hold the microphone at a 45° angle to your mouth to minimize breath noise.
– Do not use more than one microphone for the same sound source, as this causes muddled audio quality.
– This microphone adopts a supercardioid pickup pattern. More than 15 cm between the mouth and the microphone head degrades low-frequency performance.

Technical data

Receiver

Carrier frequency band	UHF 560 MHz - 610 MHz
Frequency bandwidth	50 MHz
Dynamic range	96 dB
Total harmonic distortion (THD)	< 0.3 %
Frequency response (± 2 dB)	30 Hz - 20,000 Hz

Signal-to-noise ratio	90 dB
Receiver sensitivity	-95 dBm
Power supply - single channel	DC 14 V 400 mA
Power supply - dual channel	DC 12 V 1 A
Audio output - single channel	1x 6.3 mm jack output; 1x XLR balanced output
Audio output - dual channels	1x 6.3 mm jack output; 2x XLR balanced outputs

Handheld microphone / Bodypack microphone

Carrier frequency band	UHF 560 MHz - 610 MHz
Frequency bandwidth	50 MHz
Modulation mode	DQPSK Digital modulation
Frequency synchronization	Infrared pairing
Transmit power	30 mW
Spurious emission	< -50 dBc
Battery type recommended	1.2 V NI-MH rechargeable batteries or 1.5 VAA standard batteries

Troubleshooting for signal interference

Interference can occur during use. In that case, try to:
– Adjust the position and direction of the receiving antennas.
– Keep the device away from radios and televisions.
– Connect the device to a power socket on a separate circuit from televisions and radios.

Keenfinity India Private limited
Tower D, 5th Floor, IBC Knowledge Park, 4/1
Bannerghatta Road, Bhavani Nagar, S.G Palya,
Bengaluru 560029 India
Ph: +91 9240295575
www.keenfinity-group.com
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