

MS01W (BES2000-U) True Wireless Stereo Earphone User Manual & Specifications

---Version 20180412



Earphone Basic Specifications

- Size: single-earphone 23.6×16.3×23.7mm
- Weight: 4.4g (single-earphone)
- Charging port: magnetic type
- Keys: 1 (MFB button)
- Charge indicator: Green LED light (Charging) / light off (Charging completed)
- Battery :Lithium-ion Polymer rechargeable battery, 551215 , 55mAh
- Earphone Charging Current:55mA
- Earphone Charging time: 1 hour
- Working Voltage: 3.3V~4.2V
- Standby time: about 40 hours
- Battery and Power
- Earphone with Charging case:
Music Time:6~7hours
Talking Time:8 hours
- Earphone(single charge):
Music Time: 2~2.5 hours
Talking Time: 2 hours
- ※ Working time of main earphone in the state of two earphones:<3 Hours
- Bluetooth version: Bluetooth 4.2

- Bluetooth chipset: BES2000-U
- Support Profile: HSP, HFP, A2DP, AVRCP
- The remote control to speaker: MFB (Play/Pause/Stop; Next song/ Previous song)
- Paring name: **MS01W**
- Password: 0000
- RF transmit: class 2
- RF input impedance: 50ohm
- RF Emissive Power: 9 dBm
- Receive sensitivity: -89dBm
- Transmission Range (Hz): 2.40GHz ~ 2.48GHz
- Transmission distance: 10m
- TWS function: after two headsets pair and connect, they can work as true wireless stereo headset
- Audio sampling accuracy: 16bits
- Audio sampling rate: Up to 96 kHz
- Audio encoding format: CVSD、mSBC、SBC、ACC
- SNR: >95dB
- Working temperature: -15°C ~ +60°C
- Working humidity: 10%~85%(in a non-frozen state)

Speaker

- Speaker specifications / mode: $\Phi 6\text{mm}$
- Impedance: 16 Ω / typ
- Frequency(Hz): 20Hz~20KHz
- Sensitivity: 93 \pm 3dB
- Output Power: 2 mW (normal), 5mW (maximum)

MIC

- MIC type: silicon MIC
- MIC sensitivity: -42 \pm 3dB
- SPL: 130dB

Basic Specifications of Charging Case

- Size: 59.65x34.66x27.4mm
- Weight:26.6g
- Charging Port: Micro USB
- Charging LED indicator/charging completed indicator: Blink blue/Blue LED lighting
- Charging base(Full) provide power to earphone: 2 times

- Battery: Lithium-ion Polymer rechargeable battery,300mAh
- Charging time : 2hrs
- Input Voltage :DC5V
- Charging current:250mA
- Output Voltage:DC5V
- Discharge current:55mA
- Working temperature: -15°C ~+60°C
- Working humidity: 10%~85%(in a non-frozen state)

Operating Instructions

Power ON

When the earphone is off, remove the earphones from the charging case, power on automatically, The LED indicator will flash for one second in blue. Earphone with “Power on” prompt tone.

Power Off

When the earphones is power on, put earphones into the charging case, earphones power off automatically .

Pairing

- 1) Remove R & L earphone from the charging case at same time, after automatically turn on,R & L connected automatically in 10 seconds,with “power on” “TWS connected” prompt from each earphone, R & L connection is finished;
- 2) After the right connect to the left, Left with “pairing” prompt tone, the LED indicator flashes green and blue;
- 3) On your device, go to Bluetooth menu, select for: **MS01W**, pair and connect. You will hear “Connected” when pairing is complete.

Notes:

Music function ,R & L is synchronous;

Call function just apply to L earphone.

Pairing Left&Right earphone Guide:

1. Put both earphone back to the charging case. then Pick out the both earphone from the charging capsule;
2. Make sure both of earphone didn't connected with any devices;
3. Double click the main button of left earphone you'll hear "Pairing" from the left earphone. Then Hold the main button of left earphone for 3 seconds, You'll hear "TWS searching". While the indicator light was flashing blue and green;

4. Double click the MFB button of right earphone, you'll hear "TWS pairing"

5. Wait until you hear "TWS Connected" from right earphone,

Pairing done.

※ If no voice after master & deputy earphone connection, put earphone R & L into the charging case, then pick up earphone R & L at same time. Earphone R & L reconnect the device after earphone connection.

TWS earphone reconnection: earphone R & L connection automatically after earphone paired once time, with "TWS connected" prompt tone.

Call Operation:(ONLY MASTER EARPHONE IS IN FUNCTION)

Answering calls

If a call comes in when listening to music or headset is standing by, press the MFB to answer the incoming call. If the music is playing, it will pause automatically during the call, the music will start playing automatically. (Only Main earphone operates effectively)

Reject Calls

If a call comes in, press and hold the MFB button for 2 seconds to reject the incoming call. (Only Main earphone operates effectively)

End Calls

Press the MFB to terminate when you finished your call. (Only Main earphone operates effectively)

Transfer Calls

When you are talking on the phone and receive another incoming call,

- 1) clicking the MFB once time, end first call and answer new coming call;
- 2) Long press MFB, answer new call and first call will be placed on hold;
Long press MFB again, switching between two calls.

(Only Main earphone operates effectively)

Music Play Operating

Music Play

Operate on the phone or Click MFB of the headset. (Music will play automatically on some mobile phones when it connect with Bluetooth device)

Pause and Restart Music

When listening to music, click MFB to pause music and click MFB again to restart music.

Play Previous Song

Triple-press to go back one track.

Play Next Song

Double-press to go to the next track.

Answering the incoming call in music playing:

Short press the MFB button(music will pause)

Reject the incoming call in music playing:

Press and hold the MFB button for 2 seconds

Earphones LED Indicator Status

Charging	Green LED Light
Charging Complete	Light off
Power ON	Blue LED light flashes for one second
Power Off	Green LED light flashes for one second
Pairing Mode	LED light flashes in green and blue alternately
Battery Low	Green LED light flashes once every 5 seconds with reminding tone “battery low”

Notes:

It will turn off automatically after 5 minutes if without any connection with mobile phone when it turns on.

Pairing time: 3 minutes. It will quit the pairing mode automatically after 3 minutes if without any connection with mobile phone when it is in the state of pairing.

In addition, display battery state on Apple devices.

Charging case operation

Charging case LED Indicator Status

1. Charging :Blink blue
2. Charging completed :lighting blue
3. Low battery (pull charging case):blue light flashing
4. Earphone R & L put into the charging case:earphones in charging and bright green LED light; earphones charging completed, earphones light off.

5. When charging case of electricity shortage, Using Micro USB cable to connect computers or USB port adapter power to charging, blink blue led light when charging; charging completed, case light blue.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to 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 in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, 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 into 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

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.