The BBS020 Solar Speaker is a high performance full duplex hands-free solution specially designed for users to enjoy the convenience and freedom of wireless hands-free communication in the car, but also at home or in the office. It includes advanced built-in microphone and 1W speaker with Digital Sound Processor (DSP) for echo cancellation and noise reduction that gives a loud and clear full duplex sound quality. The BBS020 Solar Speaker is a Bluetooth 2.1+EDR wireless speaker compatible with all Bluetooth compliant devices using HFP profiles such as mobile phones.
Warning: always obey local legislation regarding the use of mobile phones in the car.

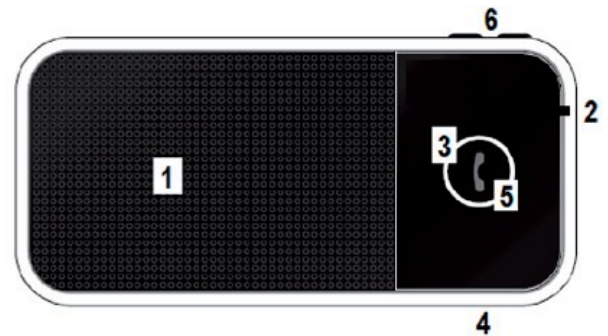## 1. Product Description
### 1.1. Packaging content
- Bluetooth Speaker
- USB cable
- 12-24V Car Adapter with USB port
- Car visor clip
- User Manual

### 1.2. Features
- Full Duplex, background noise reduction with CVC Digital Signal Processor ( DSP)
- Multipoint Technology to connect 2 mobile phones simultaneously
- Extra Slim size and light weight
- No installation required
- Unlimited standby time, up to 5 hours continuous talk time in worst conditions
- 9 hours full solar recharge time under optimal conditions

### 1.3. Product Overview
- (1) Speaker
- (2) Microphone
- (3) LED
- (4) Charging Socket (Micro-USB)
- (5) MFB (Multi-Function Button)
- (6) Volume Up (V+) & Down (V-)
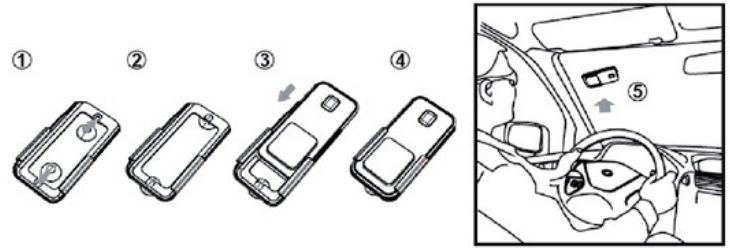- (7) Solar Panel (on the back)

### 1.4. Product Specification

| | |
|---|---|
| Bluetooth Specification | Bluetooth V2.1+EDR |
| Bluetooth Profiles | HSP, HFP1.5 |
| Frequency Band | 2.4GHz~2.48 GHz ISM Band |
| Power class & range | Class 2, Up to 10 meters |
| Number of Paired Devices | Up to 8 devices |
| Max Audio Output Power | 1 W |
| Standby Time | Up to 1000 hours (40 days) |
| Talking Time | Up to 5 hours |
| Battery | 340mAH Li-Polymer rechargeable battery |
| Battery Charging Time | Up to 2 hours, solar charge 9 hours min. |
| Dimensions | 100L x 48W x 8D mm |
| Weight | 42 g |

## 2. Using the product

### 2.1. Car Installation

Slide the speaker into the plastic holder and stick it on the top left of the windscreen as shown below. Make sure the speaker is firmly attached with the microphone pointing towards the driver.



### 2.2. Charging

Prior to using the speaker the first time, it is recommended to fully charge the battery. Normal full charge time is approximately 2 hours. The red LED will stay on while charging and will be off as soon as it is completed.

For an efficient solar charge, direct the speaker solar panel on the back towards the sun as recommended above. 2 hours of sun light exposure will give approximately 1 hour of talk time. Using solar power charge, operation time will be extended continuously without any additional charge required by the car charger.

### 2.3. Power On / Power Off

Power On: press and hold the MFB button for 3 seconds until you hear a short beep. The flashing blue LED light indicator comes on, and the speakerphone automatically connects to the mobile phone it has been paired with already.

Power Off: press and hold the MFB button for 3 seconds until you hear a short beep. The flashing red LED light indication goes off.

### 2.4. Pair and connect

Refer to the Bluetooth pairing procedures in the mobile phone user manual.

When the speaker is off, long press the MFB button for about 5 seconds until the light indicator flashes red and blue alternatively, then release the button. The alternated flashes indicate that the speaker is in pairing mode.

### 2.5. Status indicators

| Status | LED | Descriptions |
|---|---|---|
| Power On | Blue | 3 seconds flash |
| Power Off | Red | 3 seconds flash, then Off |
| Pairing | Blue/Red | Alternated blinking |
| Standby Mode (Connected) | Blue | Blinking every 3 seconds |
| Standby Mode (Disconnected) | Blue | Blinking twice every 3 seconds |
| During Communication | Blue | Blinking every 6 seconds |
| Low Battery | Red | Blinking every 3 seconds |
| Charging | Red | Light on |
| Charging Completed | Red | Light off |

## 2.6. Connection

The speaker automatically connects to the last connected device when it is turned on. If the device is not found, the speaker will connect to a previous device in the paired list.

In case the connection is not made automatically, it is possible to reconnect manually either from the speaker by pressing the MFB or from the mobile device (refer to the phone user manual). It is also possible to disconnect the speaker either manually or by moving out of range. When losing the connection/link, the speaker will automatically power off after 15 minutes.

## 2.7. Multipoint

The Multipoint function allows a simultaneous connection to 2 mobile phones. In default setting of the speaker's Multipoint function is disabled.

- To enable Multipoint function: in standby mode, press and hold "V+" button for 3 seconds until a beep is heard. If 2 mobile phones are already paired to the speaker, they will connect automatically when powering on the speaker.

- To disable Multipoint function: in standby mode, press and hold "V-" button for 3 seconds until a beep is heard. The speaker will turn off multipoint function and power off automatically. When powering on again, the speaker will only connect to the last connected Bluetooth device.

## 2.8. Function Matrix

| Feature | Key | Conditions | Operation |
|---|---|---|---|
| Power On | 📞 | Powered off | Long press 3 seconds |
| Power Off | 📞 | Powered on | Long press 3 seconds |
| Pairing | 📞 | Powered off | Long press 6 seconds |
| Answer a call | 📞 | Incoming Call | Short press |
| Hang up a call | 📞 | Talking | Short press |
| Reject incoming call | 📞 | Incoming Call | Long press 3 seconds |
| Voice dial / Cancel Voice Dial | 📞 | Standby Mode | Short press |
| Last number redial | 📞 | Standby Mode | Short press twice |
| Switch active calls* | 📞 | 2 Calls in process | Short press twice |
| Hang up call 1 and answer call 2* | 📞 | 2 Calls in process | Short press |
| Reject call 2* | 📞 | 2 Calls in process | Long press 3 seconds |
| Switch audio to/from phone | + & - | In call | Simultaneous press |
| Mute microphone | - | In call | Long press 3 seconds |
| Un-mute microphone | + | | Long press 3 seconds |
| Volume up | + | In call | Short press |
| Volume down | - | In call | Short press |

* 3-way calling not supported if Multipoint function enabled

## 2.9. Restore to Default Setting

To reset the speaker to the original settings and remove all the previous pairing and connections, just press and hold both "V+" and "V-" buttons simultaneously for 10 seconds until the blue and red LED lights flash 5 times.

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