

Introduction:

With the trend of large-size mobile phone, it sounds no longer convenient to have one really taken in hand. More and more users choose to leave mobile phone in their bag. Considering the trend, the wearable MCR-1 in a fashion shape is introduced to the market. It connects to smart phone through Bluetooth technology. When users take it, the MCR-1 prevents smart phone from dropping and brings following benefits.

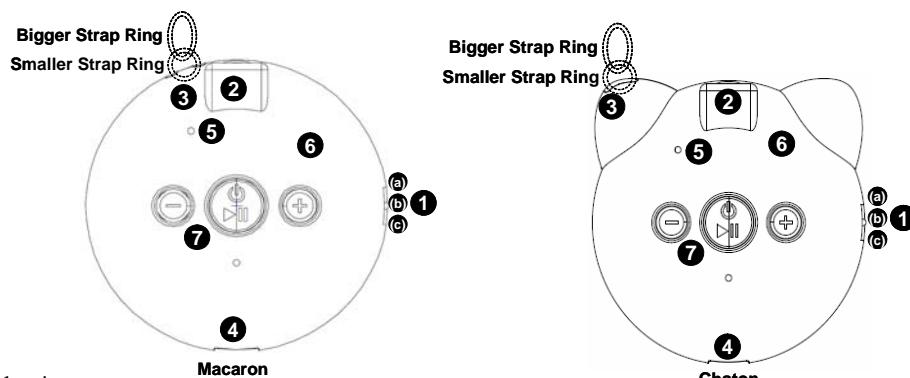
- Anti-loss reminder: the MCR-1 reminds users with a vibration alert when it is away from their mobile phones for certain distance*.
- Phone call reminder: the MCR-1 gives a vibration alert when there is an incoming call.
- Hands-free conversation: the MCR-1 equips with a microphone, let users answer the incoming call when inserting an earphone.
- Portable music player: users can listen to stereo music from mobile phone with inserted earphone, and play/select song and adjust volume through the MCR-1.

In addition, applying a male-to-male audio line to connect the MCR-1 and a conventional Hi-Fi speaker can make the HiFi Bluetooth enabled.

- Upgraded Hi-Fi speaker: With an audio line, MCR-1 connects to LINE IN jack of the speaker to transmit music. The speaker can play stereo music from mobile phone under the control of the MCR-1.

* 5 meters in average, depending on the environment.

Human Interface



1. Mode Selection:
 - (a) Normal Mode: MCR-1 fully operated with 5-hour talking time and 7-day standby time.
 - (b) Silent Mode: Work as it does in Normal Mode except vibration function is disabled.
 - (c) Very Low Power Mode: It makes MCR-1 can be stored for years with a fully-charged battery. Noted that MCR-1 will work as it is in Normal Mode when charging even it is in the Very Low Power Mode. The Very Low Power Model also reset the whole unit.
2. 3.5mm Phone Jack: It connects to earphone. Note that MCR-1 does not support microphone function of the earphone. It also connects a male-to-male Audio Line to the LINE IN jack of a conventional Hi-Fi speaker, to make it Bluetooth enabled.
3. Strap Hole: With Accessory Metal Ring, it enables users to have wider choices of straps. The Bigger and Smaller Strap Ring are suggested to be connected as shown.
4. mini USB Connector: MCR-1 will be charged when it is connected to a DC-5V power source with the Accessory Charging Cable.

5. Microphone: Used for hand-free conversation.
6. LED: Upper Red and lower Blue LEDs, indicate the status for user operation. In this user guide, LED1 denotes the upper LED, and LED2 denotes the lower LED.
7. Operation Buttons: -, MFB, +.

	Operation	-	MFB	+
"StandBy"	Push	Volume Down	Play/Pause	Volume Up
	Long Push	Backward	Stop	Forward
"Incoming Call"	Push	Volume Down	Answer	Volume Up
	Long Push		Reject	
"Dialing"	Push	Volume Down	Cancel	Volume Up
	Long Push		Cancel	
"Conversation"	Push	Volume Down	Cancel	Volume Up
	Long Push		Cancel	

Instruction:

1. Power ON: Push MFB for 3 sec, both LEDs will flash 3 times with 1 vibration, and a " power on" voice from the Phone Jack.
2. Power OFF: Push MFB for 3 sec in any other states, both LEDs will flash 3 times with 1 vibration, and a " power off" voice from the Phone Jack.
3. Battery Low: LED1 will flash 2 times with 1 vibration, and a " Battery Low" voice from the Phone Jack.
4. Under Charging: MCR-1 will be charged when it connects the charging cable to a DC-5V power source. The charging time is 2 hours typically. The LED1 keeps on when it is under charging.
5. Talking Time: Typically no less than 5 hours no matter when listen to music or phone conversation.
6. Stand-By Time: Typically 7 days when stay in Stand-By state.
7. Pairing and Connect:
 - (a) Never Pairing Before:
 - (a-1) Push MFB longer than 5 sec will start the Pairing. Both LEDs will flash alternatively, and a " pairing" voice from the Phone Jack.
 - (a-2) Turn on the Bluetooth of the mobile phone and seek for the device named "MCR-1" .
 - (a-3) Go pairing MCR-1 through mobile phone. If mobile phones ask for a matching code, key in 0000. When complete the pairing, LED2 will flash 10 times, and a " pairing completed" voice from the Phone Jack.
 - (a-4) Go connecting MCR-1 through mobile phone. When they are successfully connected, LED2 will flash 2 times with 1 vibration, and enter the Stand-By state. LED2 keeps flashing 2 times per seconds in the Stand-By state.
 - (a-5) If the Pairing is not successful, a voice " pairing not completed" will be sent from the Phone Jack. Follow (a-1) ~ (a-4) to repeat the "Pairing and Connect" again.
 - (b) Ever Paired:
 - (b-1) When MCR-1 is in Power-On state, push MFB to connect the mobile phone.
 - (b-2) When MCR-1 is in Power-Off state, turn it on by pushing MFB longer than 3 sec, to connect the mobile phone.
8. Answer Phone Call: MCR-1 will vibrate with 1 sec duration successively in the Incoming Call state.
 - 8.1 Answer with MCR-1: Push MFB, then a hand-free conversation can start with the embedded microphone when an earphone is inserted. (Note: MCR-1 does not support the microphone function of the earphone.)

- 8.2 Answer with mobile phone: It will depend on the Bluetooth function provided by different mobile phones. If the mobile phone cannot answer the phone call well, users need to switch MCR-1 into Very Low Power Mode before answer incoming call. Then, turn it back to either Normal Mode or Silent Mode after the phone call, and restart MCR-1.
9. Reject Phone Call: Push MFB longer than 2 sec when users are not convenient to answer call.
 10. Anti-loss: Whenever MCR-1 detects the connected Bluetooth signal lower than some level (typically 3m ~ 5m*), it successively vibrates 3 times with 2-sec duration until it loses the Bluetooth signal (typically 10m*).
- * Depend on the environment.
11. One MCR-1 shared by 2 mobile phones
 - 11.1 Follow Instruction 7 to let MCR-1 paired with Phone A and Phone B respectively.
 - 11.2 Turn off Bluetooth of Phone A and Phone B.
 - 11.3 Follow Instruction 7(b), connect MCR-1 to Phone A.
 - 11.4 Follow Instruction 7(b), connect MCR-1 to Phone B. Then, both Phone A and Phone B are connected to MCR-1.

Accessory

1. Audio Line: Used to connect MCR-1 to LINE IN jack of the conventional Hi-Fi speaker. (It is only provided in Macaron model, not provided in Chaton model.)
2. Charging Cable: Used to connect mini USB Connector to a DC-5V power source.
3. Strap Ring: Let users connect to the Strap Hole if needed, to meet wider choices of straps.

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, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.