Bluetooth Stereo Headset
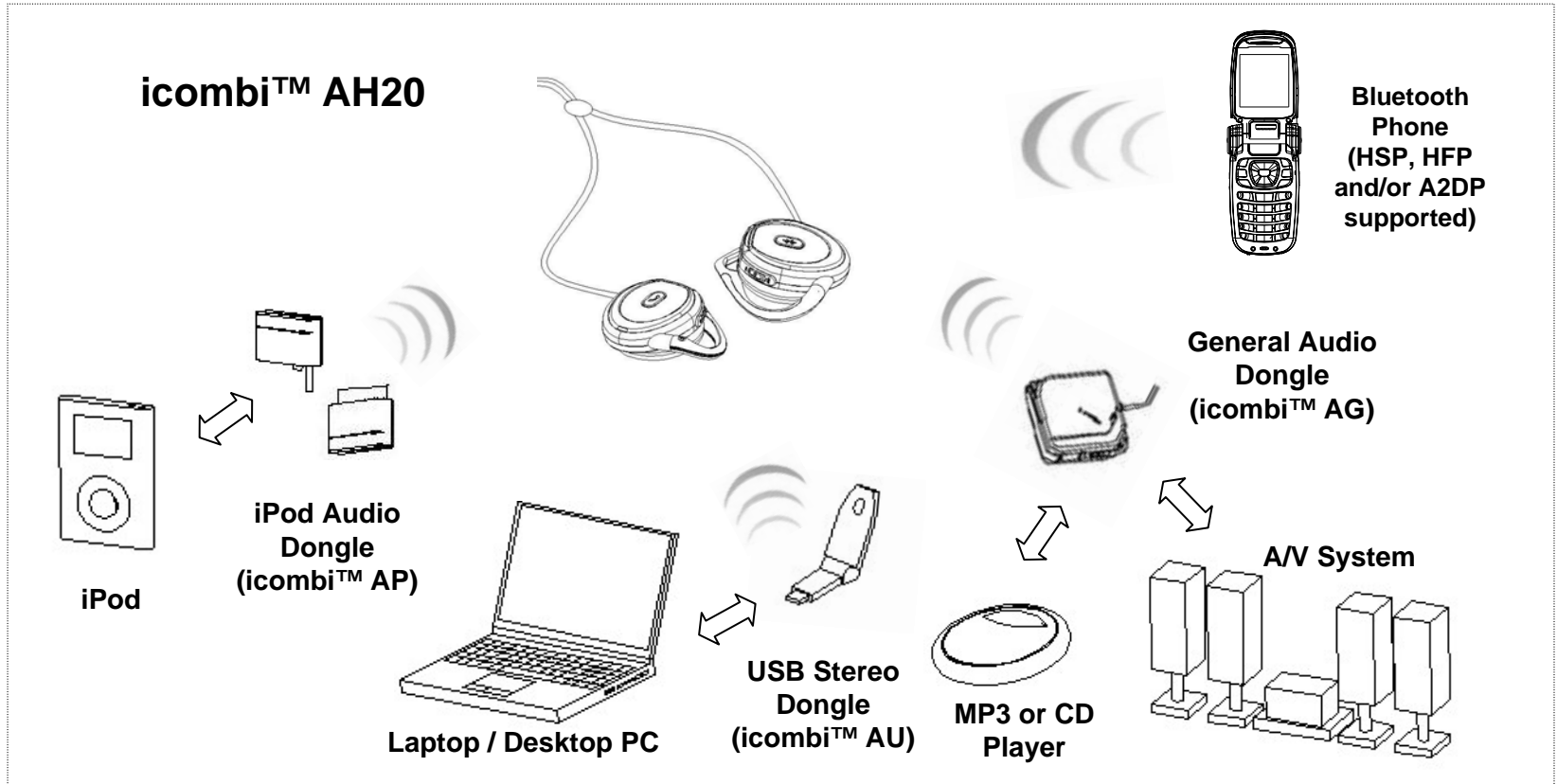
icombi™ AH20
User's Manual

icombi™ AH20

【 Index 】

▶ Caution !! ◀
Before using icombi™ headset, please check up the comments below for safety.

1. Do not impact or make a hole with sharpened pins on the product.
2. Do not leave in high temperatures or heating.
3. Do not touch the headset with wet hands.
4. Please turn the headset off where it is prohibited from using.
5. Do not leave the headset or charger near/inside a heater or in a microwave oven.
6. Do not disassemble or repair at a user's discretion.
7. Please use the charger recommended by the manufacturer.
8. Sound quality may be compromised or the connection can be interrupted when the headset is used nearby a microwave oven and/or a wireless LAN.

1. Product Introduction

- **icombi™ (AH20) Bluetooth Stereo Headset will provide you with headset/hands-free functionality and wireless music. In addition, you can control over many of today's digital media and audio devices wirelessly.**

icombi™ AH20

Bluetooth Phone (HSP, HFP and/or A2DP supported)

iPod Audio Dongle (icombi™ AP)

General Audio Dongle (icombi™ AG)

iPod

A/V System

Laptop / Desktop PC

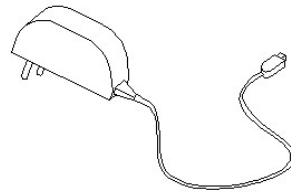**USB Stereo Dongle (icombi™ AU)**

MP3 or CD Player

- **icombi™ (AP11 / AP21) iPod Audio Dongle** : audio transmitter for Apple iPod
- **icombi™ (AG12) General Audio Dongle** : audio transmitter for all audio devices with a 3.5 mm audio jack
- **icombi™ (AU13) USB Stereo Dongle** : audio transmitter for PC's or laptop's with USB port
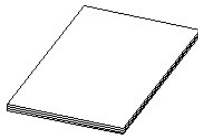
3

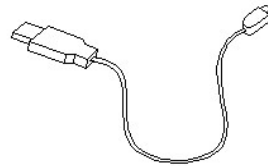# 2. What is included in icombi™ AH20 package?
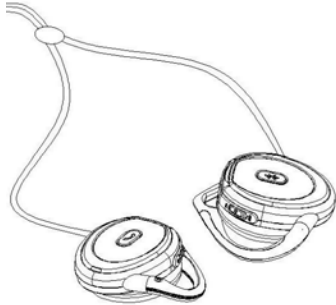
AH20 Stereo headset

AC Adapter

User's Manual

USB power cable
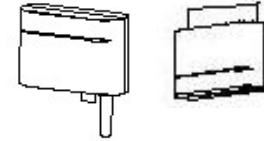
AP11 or AP21
(iPod Audio Dongle)

AG12
(General Audio Dongle)
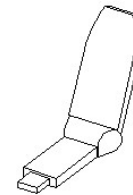
AU13
(USB Stereo Dongle)

One of the transmitters is available in the package.
Please choose the right one for your audio device.

3. Headset Features

Power Button
(Slide)

Talk Button

Button for
ejecting battery

LED Light

Battery

Microphone

Power Button
(Slide)

**USB or Adapter
Charging port**

Button for
ejecting battery

Volume Up / Down Button

Play / Pause
& Track Up/Down

< Left >

< Right >

5
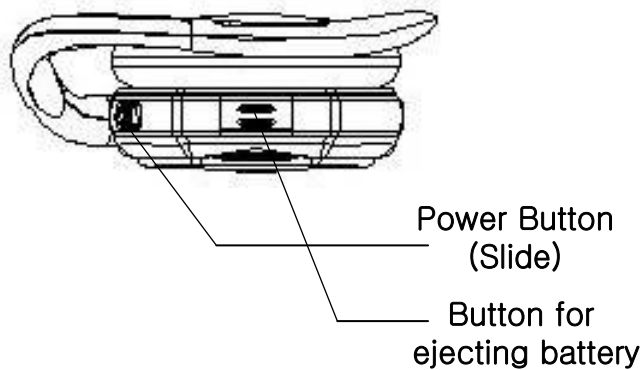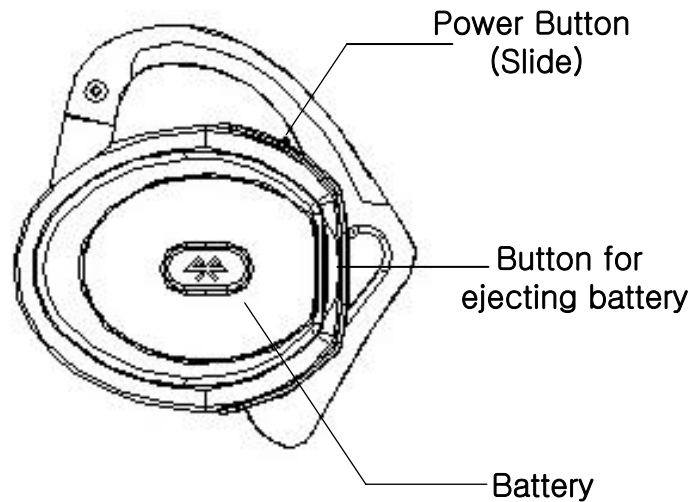
4. Battery charging

■ Before connecting the power adapter to the wall outlet, please ensure the power voltage is suitable for power adapter.

Connecting to PC

1) Use the AC adapter for the wall outlet or USB power cable for PC's in order to recharge the battery.
2) Open the mini-USB port cover of the Headset.
3) Connect the mini-USB plug to the port of the headset.
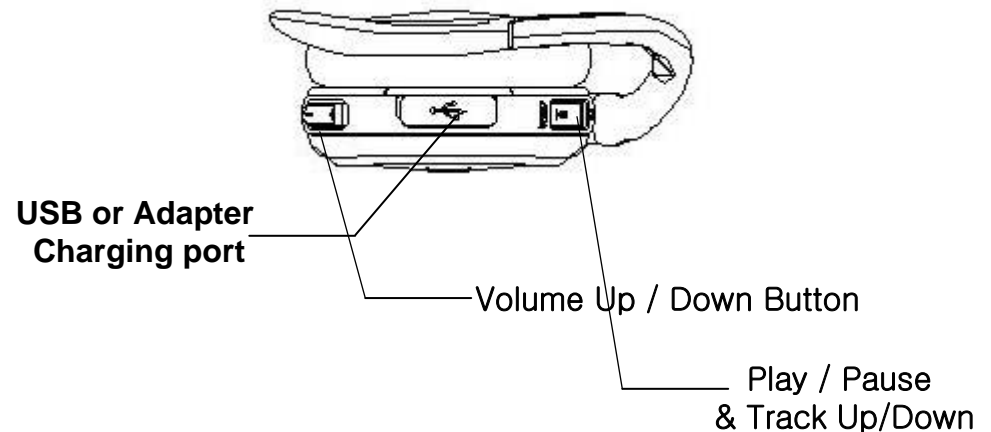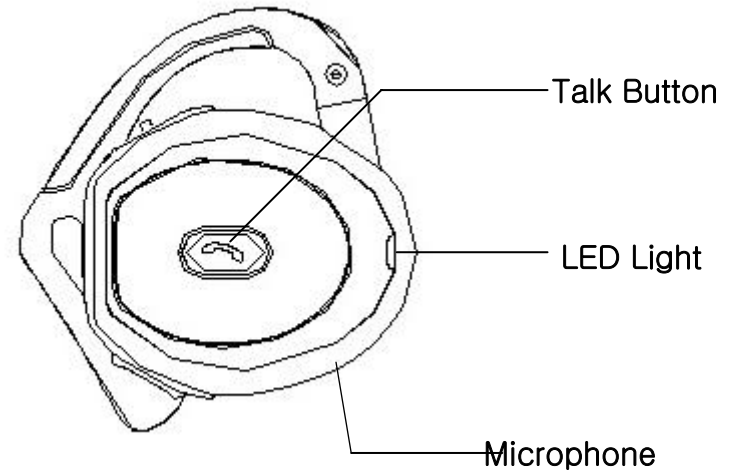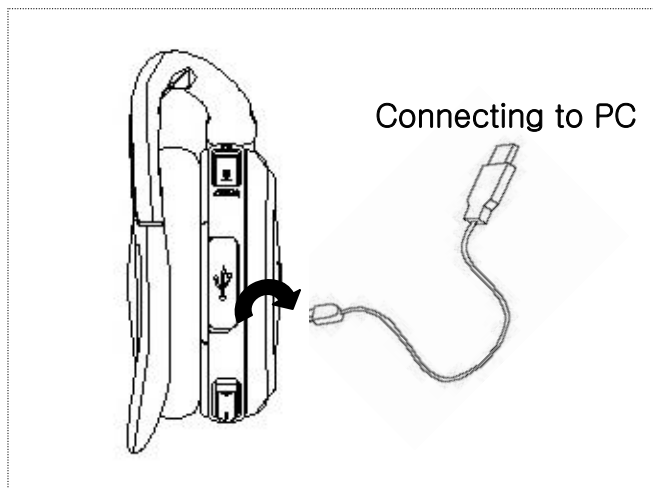4) LED light stays red while charging and turns to blue when the headset battery is fully charged.
5) Remove the battery charger from the headset when finished charging.

■ How to check up the battery status?

>> Press the Volume up and Volume down buttons at the same time……

When fully charged
LED flash in blue for 2 **seconds**.
When charging needed
LED flash in red for 2 **seconds**.

■ Reset & Changing battery
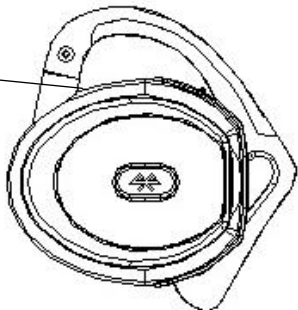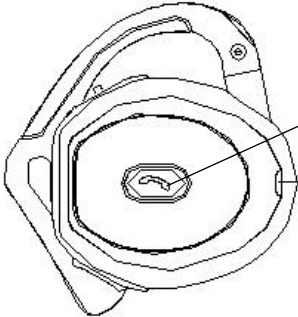
1) Please slide off the headset by using power button (Slide) on the headset, then the headset will be reset. Or if you take battery off from the headset, it will be reset automatically.

2) For changing batteries, please change the battery as shown in the right picture of the headset.

Button for ejecting battery

Power Button (Slide)
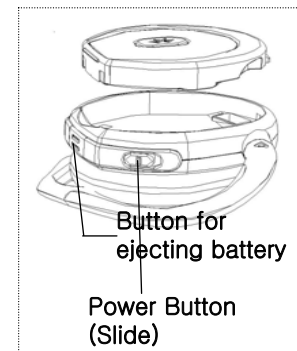
■ Charging and using time

Charging Time	Standard using time		
	Stand-by Time	Talk Time	Playing music continuously
Less than 2 hours	Over 110 hours	Over 10 hours	Over 7 hours

5. Headset pairing and ON/OFF

	■ Headset pairing	■ Headset ON	■ Headset OFF
Power Button (Slide) & Talk Button (📞)	When the headset is powered off, please slide on the power while pressing talk button.	When the headset is powered off, please slide on the power.	When the headset is powered on or in pairing mode, please slide off the power.
	Power Slide < Left >	Talk Button LED Light < Right >	
Beep Sounds	Ascending 4 Step Sound	Ascending 2 Step Sound	Descending 2 Step Sound
Indicator LED	Blinks rapidly in blue 3 times within 1~2 seconds and then blinks spontaneously in red and blue.	Blinks rapidly in blue 3 times within 1~2 seconds and then blinks in blue at an interval of 3 seconds	Blinks in red 3 times and then turned off.

6. Connecting to a Bluetooth phone

■ **How to register (pair/connect) the icombi™ (AH20) Bluetooth headset to a Bluetooth phone? (Bluetooth phone means a phone that contains the Bluetooth function inside)**

INITIAL PAIRING : Connecting icombi™ AH20 to a Bluetooth phone for the first time

Searching device(∗) ⇨ icombi AH20 ⇨ Pin Code "0000" ⇨ Registering and Connecting
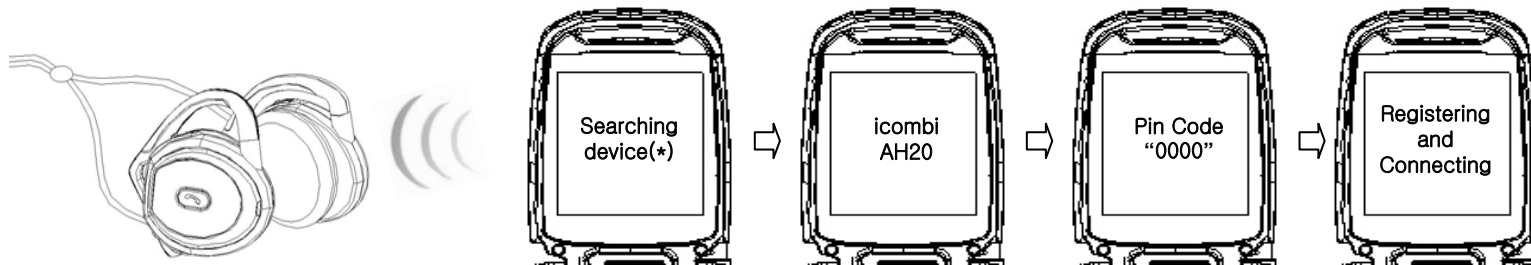
1) Set up the headset for pairing mode (Registration waiting mode).
    (Registration waiting mode: When sliding the headset's power on, the headset LED blinks in both blue and red for 2 min. Please refer to "■ **Headset pairing**" in Chapter 5.)
2) Set up your phone for Bluetooth device search mode.
    (Please refer to the user's manual of the Bluetooth phone that a user is trying to pair with the headset.)
3) Choose **'icombi AH20'** among the searching list on your phone.
    (*) **According to a mobile phone maker, the user interface on the phone will differ**. It is strongly recommended that a user should refer to the user's manual of the Bluetooth phone
    (*) Headset should be on and in pairing mode.
4) After choosing **'icombi AH20',** please enter **"0000"** when asked for a pin code or a password or such like.
5) When connection is successfully made, the headset LED blinks in blue at an interval of 3 seconds.
6) **RE-CONNECTING** : Do not go through the **INITIAL PAIRING** again. Simply power on the headset with the Bluetooth phone powered on. Re-connection will be made automatically to the Bluetooth phone that was once paired with the icombi™ AH20 headset as soon as the user slides the headset's power on. Please refer to "■ **Headset ON**" in Chapter 5**.**
7) Please refer to Chapter 11. Making and answering calls through icombi™ AH20.

[note] Stereo function will work only with a stereo-supported Bluetooth mobile phone.

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7. Connecting to an iPod

■ Connect to Apple iPod using AP11 / AP21

INITIAL PAIRING : Connecting icombi AH20 **to** AP11 / AP21 for the first time

Indicator of AP11 / AP21

Set up headset for pairing mode

Insert AP11 to iPod (or AP21 ⬜)

1) During the connection process, the headset LED blinks in both red and blue and the LED of AP11 / AP21 blinks in blue at an interval of 0.5 seconds.
2) Both the LED's of the headset and the AP11 / AP21 blink in blue slowly at a longer interval of time, when the wireless audio connection between the two devices is successfully made.
3) **RE-CONNECTING** : Do not go through the **INITIAL PAIRING** again. Simply slide on the headset in order to re-connect with the AP11 / AP21 plugged into the iPod. Re-connection will be made automatically to the AP11 / AP21, that was paired with a icombi AH20 headset, after a short period time.

[note] AP11 / AP21 does not have a built-in battery inside. It draws power from the iPod.

8. Connecting to an audio device

■ Connect to all audio devices with a 3.5 mm audio jack using AG12

<u>INITIAL PAIRING</u> : **Connecting** icombi™ AH20 to icombi AG12 for the first time

OFF
ON

Ear jack of Audio device

Indicator of AG12

Set up headset for
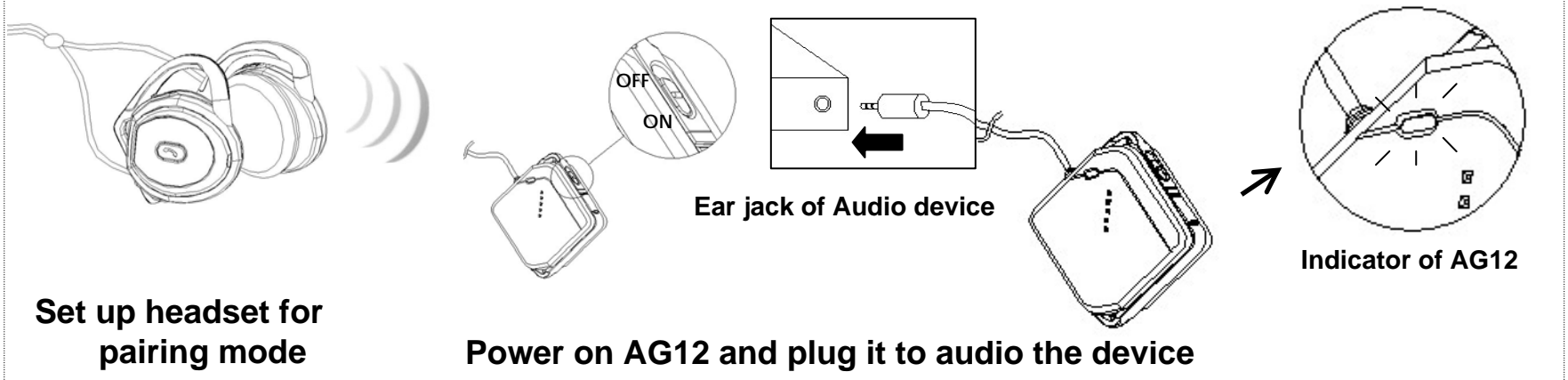**pairing mode**   **Power on AG12 and plug it to audio the device**

1) During the connection process, the headset LED blinks in both red and blue and the LED of AG12 blinks in blue at an interval of 0.5 seconds.
2) Both the LED's of the headset and the AG12 blink in blue slowly at a longer interval of time, when the wireless audio connection between the two devices is successfully made.
3) **RE-CONNECTING** : Do not go through the **INITIAL PAIRING** again. Simply slide on the headset in order to re-connect wirelessly with the AG12 powered on. Re-connection will be made automatically to the AG12, that was paired with a icombi AH20 headset, after a short period time.

[note] AG12 has a built-in battery inside. It is rechargeable with the power adapter or the USB cable.

9. Connecting to a PC

■ Connect to all kind of PC's with a USB port supported using AU13

<u>INITIAL PAIRING</u> : Connecting icombi™ AH20 to icombi AU13 for the first time

USB port in PC   **Indicator LED of AU13**

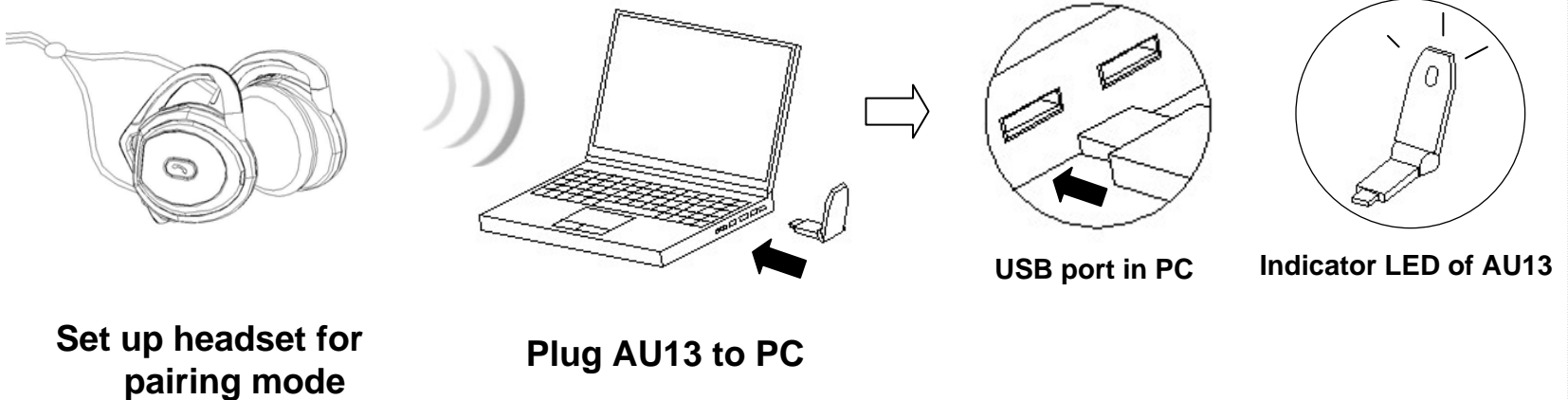**Set up headset for pairing mode**   **Plug AU13 to PC**

1) During the connection process, the headset LED blinks in both red and blue and the LED of AU13 blinks in blue at an interval of 0.5 seconds.
2) Both the LED's of the headset and the AU13 blink in blue slowly at a longer interval of time, when the wireless audio connection between the two devices is successfully made.
3) **<u>RE-CONNECTING</u>** : Do not go through the **<u>INITIAL PAIRING</u>** again. Simply slide on the headset in order to re-connect with the AU13 plugged into a PC. Re-connection will be made automatically to the AU13, that was paired with a icombi AH20 headset, after a short period time.

[note] AU13 is not compatible with Mac O/S PC.

10. Connecting to both a Bluetooth phone and an audio device

INITIAL PAIRING : Connect to the Bluetooth phone first and then to an audio device

Searching device(∗) ⇨ icombi AH20 ⇨ Pin Code "0000" ⇨ Registering and Connecting

Set up headset for pairing mode

Connect to a Bluetooth phone according to Chapter 6.
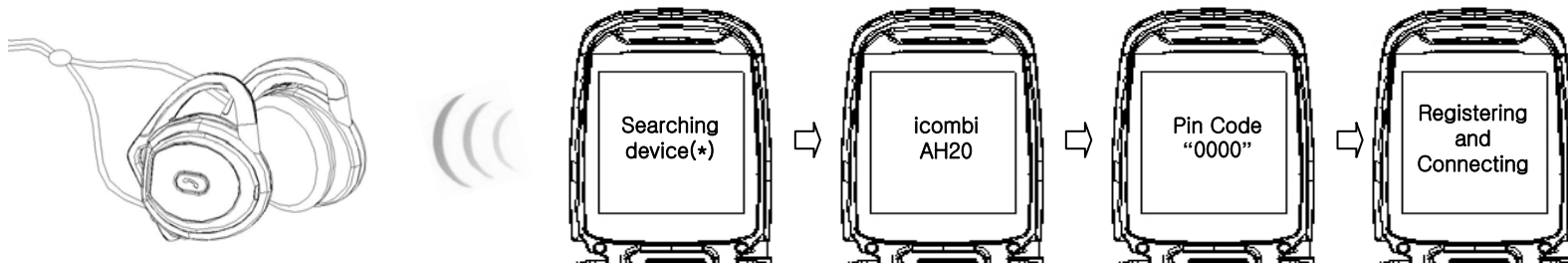
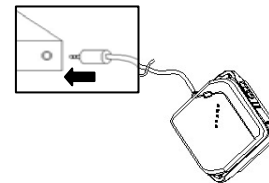**After the connection is made with the Bluetooth phone, the headset will be in a connection enabled mode for audio devices with the audio dongle (transmitter)**
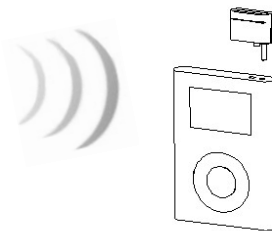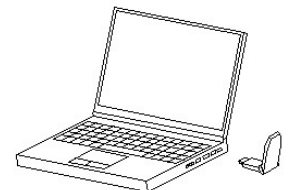
Plug AP11 / AP21( ) to iPod

or

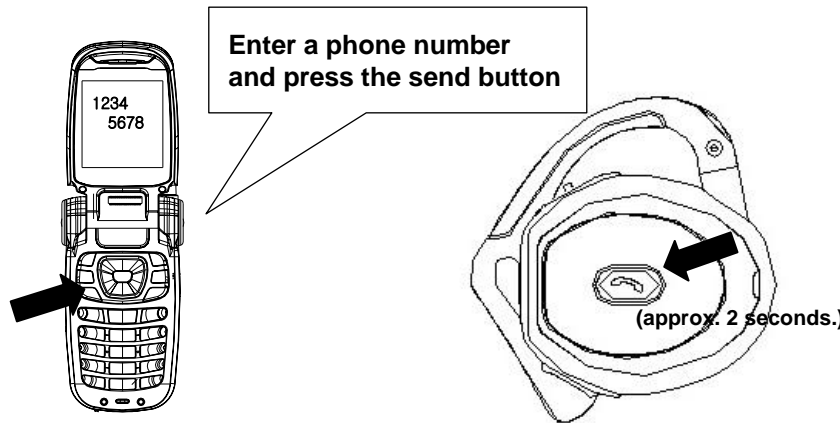**Plug AG12 to audio device**

or

Plug AU13 to PC

[note] Please make sure the headset must be first Bluetooth-registered (connected) to a Bluetooth phone and then to an audio device when in INITIAL PAIRING process.

11. Making and answering calls through icombi AH20

■ **How to make and answer calls through icombi AH20 after the connection is made according to Chapter 6.?**

■ Making calls

Enter a phone number and press the send button

1234
5678

(approx. 2 seconds.)

■ Answering calls

1234
5678

1) Enter a phone number and press the send button of the user's Bluetooth (mobile) phone.
2) During or after making a phone call, please press the talk button(☎)on the headset for about 2 seconds to route the audio path to headset in order to talk through the headset.
3) You may re-route the audio path to the Bluetooth phone by pressing the talk button of the headset for about 2 seconds again.

[note] When the user make the last number call by pressing the talk button, The number of times he/she may have to press the talk button, will differ according to a different Bluetooth phone

1) Pick up an incoming call by pressing the talk button (☎) quickly when the phone is ringing or if you hear the incoming call beep sound.
2) Hang up the call by pressing the talk button quickly while or after answering the call.
3) Reject an incoming call by pressing the power/talk button for about 2~3 seconds.

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12. Making and answering calls while listening to music

■ **Making and answering calls while listening to music through icombi™ headset**
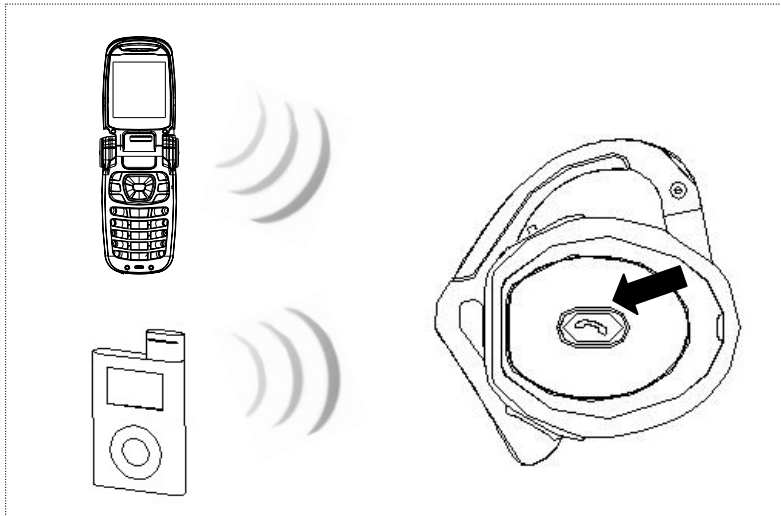
Function	Play	Track selecting	Volume control
Button	∎	⏮ ⏭	(+) , (−)
Selecting status	∎ : Pause (One Push) ∎ : Play (Another Push)	⏮ Previous track ⏭ Next track	(+) Volume up (−) Volume down

1) First, complete a Bluetooth connection to both phone and audio device. Please refer to "10. Connecting to both a Bluetooth phone and an audio device".

2) Making a call : please follow the same procedure as "■ Making calls" in Chapter 11.

3) Answering a call : please follow the same procedure as "■ Answering calls" in Chapter 11.

4) The incoming calls will be detected while listening to music and the audio sound or music comes right back in the icombi AH20 headset when the call hung up.

- Please refer above to the control buttons of the headset and their functionality when listening to music.

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13. Features and specification

• Bluetooth Standard	Bluetooth 1.2 compliant	**• Speaker**	Diameter: 30mm Frequency Response: 20Hz ~ 20KHz SPL (Sound Pressure Level): 120±3dB @ 1KHz THD (Total Harmonic Distortion): ± 5% Impedance: 32Ω ± 15% @ 1V, 1KHz Power Rating: 10mW (Maximum)
• General Radio	2.402 ~ 2.480 GHz		
• Radio Coverage	Bluetooth Class II Over 10 meters (in open space)	**• MIC**	Typical : -47dBm (Noise Canceling)
• Bluetooth Profile Supported	A2DP (Advanced Audio Distribution Profile) AVRCP (AV Remote Control Profile) HSP (Headset Profile) HFP (Hands-Free Profile)	**• Use Time**	Stand-by Time : Over 110 hrs Talk Time : Over 10 hrs Play Time : 7 hrs (The maximum operating time depends on the usage frequency and environmental factors. A long distance wireless connection and high volume level will increase the power consumption.)
• Sensitivity	< 0.1% BER at -80 dBm	**• Operating Temperature**	-20℃ ~ +50℃
•Power Adaptor	Input : AC 100 ~ 240V Output : DC 5V, 500mA	**• Dimensions**	65mm x 78mm x 60mm
•RF Output Power	0dBm to 4dBm	**• Weight**	65g (battery included)
• Battery	Embedded and Rechargeable battery 3.7V 300mA Li-ion Charging Time : within 2 hrs	**• LED Indicator Status**	Blue flashing: Power on or Stand by mode Blue & Red flashing: Pairing mode Blue : Fully charged

[note] The above spec. may change in accordance with circumstance situation.

14. Warranty

Product	Bluetooth stereo headset
Model	AH20
Date of purchase	
Serial No.	
Place of purchase	
Purchasing amount	

Subject to the conditions of this Limited Warranty, the Producer warrants this product to be free from defects in material and workmanship at the time of its original purchase by a consumer, and for a subsequent period of one (1) year. Should your Product need warranty service, please return it to the dealer from whom it was purchased.

If, during the warranty period, this Product fails to operate under normal use and service, due to defects in materials or workmanship, our service partners will, at their option, either repair or replace the Product in accordance with the conditions stipulated herein.

- CONDITIONS -

1.The warranty is valid only if the original receipt issued to the original purchaser by the dealer, specifying the date of purchase, is presented with the Product to be repaired or replaced. The Producer reserves the right to refuse warranty service if this information has been removed or changed after the original purchase of the Product from the dealer.

2. If the Product has been repaired or replaced, the repaired or replaced Product shall be warranted for the remaining time of the original warranty period or for ninety (90) days from the date of repair, whichever is longer. Repair or replacement may involve the use of functionally equivalent reconditioned units. Replaced parts or components will become the property of the Producer.

3. This warranty does not cover any failure of the Product due to normal wear and tear, or due to misuse, including but not limited to use in other than the normal and customary manner, in accordance with instructions for use and maintenance of the Product. Nor does this warranty cover any failure of the product due to accident, modification or adjustment, acts of God or damage resulting from liquid. This warranty does not cover Product failures due to improper repair installations, modifications or service performed by any person who is not authorized by Producer. Nor does this warranty cover any failure of the product due to the life time of a battery built in the product. Tampering with any of the seals on the Product will void the warranty.

THERE ARE NO EXPRESS WARRANTIES, WHETHER WRITTEN OR ORAL, OTHER THAN THIS PRINTED LIMITED WARRANTY.
IN NO EVENT SHALL THE PRODUCER BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS OR COMMERCIAL LOSS, TO THE FULL EXTENT THOSE DAMAGES CAN BE DISCLAIMED BY LAW.

The warranty provided does not affect the consumer's statutory rights under applicable national legislation in force, nor the consumer's rights against the dealer arising from their sales purchase contract.

Caution

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance Information

This device complies with Part 15 of 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.

Information to User

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.