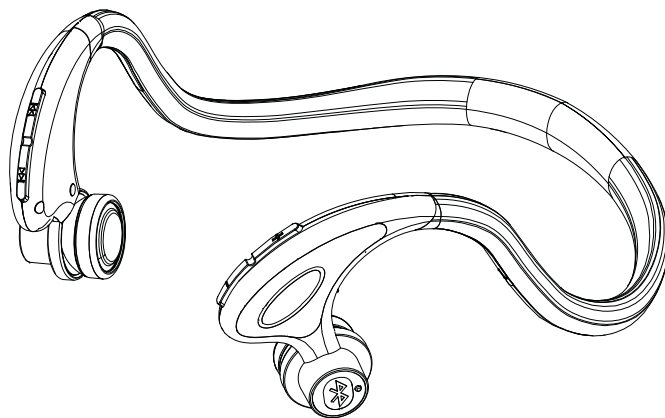


BONE CONDUCTION BLUETOOTH STEREO HEADSET



GD TECH GDB-401

CE 2200

Greeting to the Users

GD TECH GDB-401 is a high-reliability wireless product with hearing protection.

GD TECH makes an effort aggressively to develop Bluetooth solution available at work, game, home, sports and daily life anywhere in the world.

Thank you very much for buying GD TECH GDB-401 with advanced bluetooth and bone conduction technologies.

BONE CONDUCTION BLUETOOTH STEREO HEADSET

Please read these instructions carefully prior to using the unit.

Ergonomically designed GD TECH GDB -401 provides wireless service integrating music streaming and sending/receiving a call.

This behind-the-neck style headset designed for the best convenience and stability provides integrated control mechanism enabling the user to switch between listening to music or making/receiving a call.

GDB-401 offers a music library function to enjoy music in the form of wireless transmission when it is connected to Bluetooth music phones or iPods (an adaptor needs to be bought separately).

※ This wireless unit can be subject to radio interference while being operated.

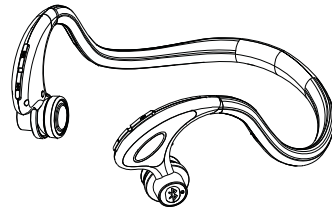
※ The manufacturer and the installer shall not provide services in relation to human life safety because there is the possibility of radio interference in this unit.

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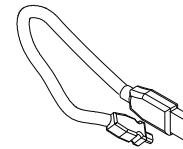
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Components

1. GDB-401 Bluetooth



2. Charging Cable



3. User Guide

Safety and General Information

Please read and understand these instructions on safety and operating efficiency prior to using this product. The user should not change or modify this product in any methods.

The product warranty may not be good for the case of changing or modifying this product by the user without an explicit approval of compliance manager.

The operation of this product shall be bound with the following two conditions:

- (1) This unit shall not cause any harmful interference.
- (2) This unit shall accommodate all received interference including one which brings about unnecessary operation.

Electromagnetic Interference (EMI) / Electromagnetic Compatibility (EMC)

Note: Most of electronic equipment which is shielded, designed or configured improperly in regard to EMC is exposed to EMI.

Facilities

To prevent EMI and EMC interference in the facilities where the applicable cautions are indicated, please turn this unit off. Especially, hospitals or health centers may employ those equipment sensitive to external radio frequency (RF) energy.

Aircraft

Be sure to turn the headset off in aircrafts according to instructions.

Upon using the headset, be sure to comply with the applicable regulations under the direction of aircrew.

Medical Instrument**Hearing Aid**

Some devices may interfere with the use of a hearing aid.

In this case, it is advised to find an alternative by contacting the manufacturer of hearing aid.





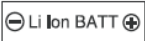

Other Medical Instruments

Upon the use of other personal medical instrument, be sure to check whether the instrument is protected from RF energy properly by asking the applicable manufacturer.

Useful information may be advised by personal doctors.

Battery and Charger

The symbols presented in the following table may be indicated on the batteries, chargers or wireless units to remind the consumer to pay attention to the use. Please follow the instructions

Symbol	Definition
	This symbol implies important information on safety.
	Do not discard batteries or wireless units in fire.
	Batteries or wireless units shall be recycled in accordance with local regulations. For more information, please contact the local authorities.
	Do not throw batteries or wireless units into a wastebasket.
	A Li-ion battery is integrated into the inside of the wireless unit.
	Do not make batteries, chargers or wireless units wet.

Instructions on the Use while Driving

Please obey the relevant regulations on the use of wireless units and accessories all the time.

As far as wireless service would be provided and conditions would allow, voice and data services are available by wireless unit anytime and anywhere. But when you drive, driving should take precedence

When you use wireless units, please keep the following in your mind.

- Understand the functions of wireless units such as speed dialing and redialing prior to using them

- Use a hands-free function as much as possible.

- Place wireless units within arm reach.

- Place wireless units to be used without taking your eyes off the road you are driving on.

- Use automatic response service as much as possible when it is not easy to get the phone.

- Please refrain from calling while driving in a crowded or icy road or under bad weather such as rain, sleet or snow.

- Writing a memo or searching from an address book while driving interferes your safe drive.

- Please avoid an oppressive or emotional calling which makes drivers distracted.

- Let the counterpart know that you are driving and postpone a call which can make you distracted later on.

Notification of Radio Regulation Law

This unit complies with the conditions of restriction on Class B digital devices under the internal relevant regulations. These restriction conditions are designed to protect this device from harmful interference properly when it is installed in residual areas. This unit may generate, use or emit RF energy and unless installed or used in accordance with the given instructions it may cause harmful interference in radio communication. This harmful interference is not generated only within a certain installation area. When it is determined that this unit brings about harmful interference upon receiving the broadcasting of radio/television through turning it on/off, the problems of harmful interference can be solved in one of the following methods:

Readjust or relocate receiving antennas.

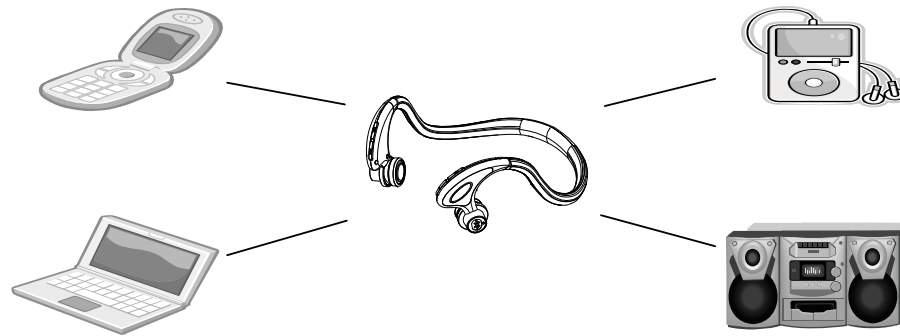
Increase distance length between this unit and the receiver.

Connect this unit to other circuit outlet than the outlet connected to the receiver.





Contact local sales representative or experienced radio/television engineers.

Introduction

GD TECH GDB-401 provides a function to enjoy music and send/receive a call in wireless communication.



In addition to the sending/receiving a call by Bluetooth-enabled mobile phones, GDB-401 can be used in pairing with Bluetooth enabled music players in some ways.

Sound source	Method to listen to music in wireless communication
<p>Home stereo</p> 	<p>You can listen to music played back from home stereo. GD TECH Bluetooth Audio Dongle and an adaptor for audio are necessary.</p>
<p>PC</p> 	<p>You can listen to music played back from PC. GD TECH Bluetooth USB MV Dongle and an adaptor for USB are necessary.</p>
Sound source	Method to listen to music in wireless communication
<p>iPod</p> 	<p>You can listen to music played back from iPods. An adaptor dongle for stereo Bluetooth iPods is necessary.</p>
<p>Mobile phone</p> 	<p>You can listen to music played back from mobile phones that support the function of Bluetooth streaming music.</p>
<p>In order to use GDB-401, the user's mobile phone or music player shall support Bluetooth function presented in the following table.</p>	

Profiles	Description
HFP (Hands Free)	Call management Sending/receiving a call
A2DP (Advanced Audio Distribution)	Stereo music streaming
AVRCP (Audio/Video Remote Control)	Remote music control (e.g., remote playback/pause or select the next track)

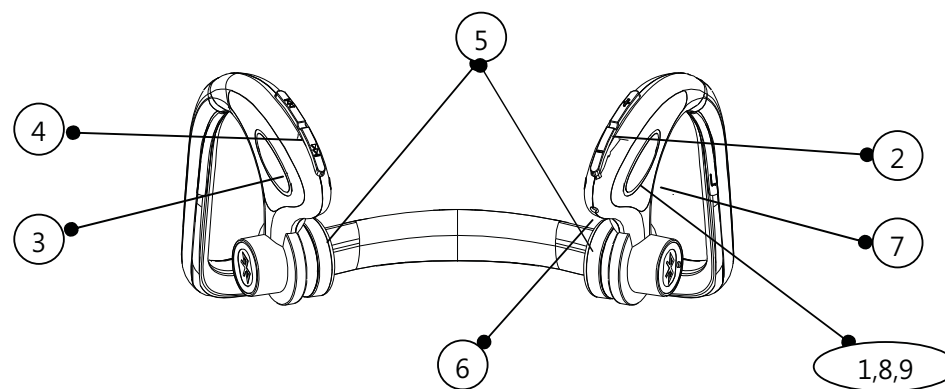
Getting Start








Prior to using GDB-401, the following steps shall be taken.

1. Charge the battery of GDB-401 (see p.19 "Charging").
2. Pair (connect) GDB-401 with Bluetooth devices.
(see p.19 "Pairing GDB-401 with Bluetooth devices")
3. Wear GDB-401 over your head (see p.21 "Wearing GDB-401").
4. Now, you are ready to use GDB-401.

Before Getting Start

Let us take a brief look GDB-401.



- 1-Call button  : To receive or finish a call
- 2-Volume control : To increase () or decrease () the volume of music or the tone of a call
- 3-Music button  : To pause/resume or stop music
- 4-Music control : To shift to the next track ) or the previous track ) while listening to music
- 5-Speaker : To listen to music or a call
- 6-Mic : To send/receive a call (mounted in the inside of the right earpiece)
- 7-Charging port : Insert either end of the charger into this port
- 8-LED Indicator : To indicate the status of GDB-401
- 9-Power button  : To turn GDB-401 on/off

Charging GDB-401

On the first use - The battery must have finished charging at least for two hours prior to using GDB-401.

On recharging - When a low-battery beep is sounded, recharge GDB-401.

In time, performance of the battery becomes lowered and recharge time is getting longer.



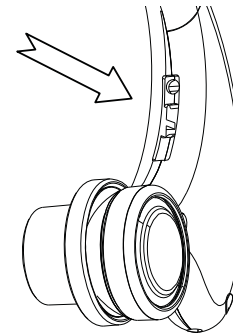
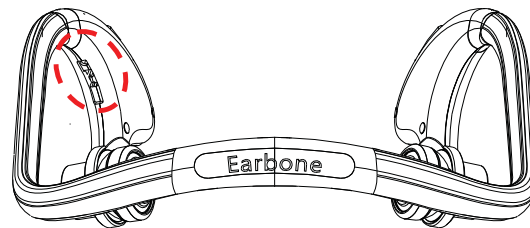
The battery shall be discarded and recycled properly.

For details of the correct method to discard the battery, contact your local recycling center.

Warning: A battery can explode when it is thrown into fire.

How to Charge GDB-401

1. Lift the rubber cover of the charging port as shown in the below figure.
2. Insert either end of the GD TECH charger into the GDB-401 charging port as shown in the figure.
3. Connect the other end of the charger to a USB port.



The LED indicator is on in red while the battery is charging.
When the battery has finished charging (appr. 2 hrs), the LED indicator becomes off.

Caution: GDB-401 is out of operation while the battery is charging.

4. Disconnect the charger from both the outlet and GDB-401 and put the rubber cover over charging port.

Power of the full-charged battery of GDB-401:

Up to 9 hours of stereo music play time / Up to 12 hours of talk time

Up to 200 hours of standby time


Pairing GDB-401 with Bluetooth Devices

GDB-401 shall be paired (connected) with Bluetooth-enabled mobile phones or music players. By the pairing, two devices are connected to each other. Once a pairing has been established, GDB-401 is remembered by the counterpart device or the device which it previously paired with. The pairing process is triggered automatically within the range of signal whenever GDB-401 is turned on.

On the First Use

Pair (connect) GDB-401 with Bluetooth devices according to the following process.

Important: In case of pairing GDB-401 with different Bluetooth devices depending upon either a hands-free call or music streaming, it is recommended to pair GDB-401 with A2DP (stereo) first.

1. Check if the Bluetooth profile embedded in a mobile phone is activated (triggered) .
(For more information on the method to activate Bluetooth profile, see the manual of the applicable mobile phone or music player)
2. Press down Call button (, of GDB-401 for 8 seconds. Then, the LED indicator blinks in blue and red alternatively, which means a pairing has been established.
3. Scan to find any Bluetooth devices from a mobile phone (for more information on Bluetooth connection and scanning for devices, see the manual of the applicable mobile phone or music player).
4. When the name of GDB-401 appears on the list of Bluetooth devices scanned by a mobile phone, press (or select) Confirm (OK or Yes) button.
5. Enter the password 0000 into a mobile phone and select Confirm (OK) button.

6. When the connection has been set up normally, the blue LED indicator blinks one time.
7. To check if a hands-free call connection between GDB-401 and a mobile phone has been done properly, press the applicable phone number followed by Call button of GDB-401. If you can hear a dial tone, the connection has been completed.
8. To check if music streaming (A2DP) connection between GDB-401 and sound source devices has been done properly, press Play button of GDB-401. If you can listen to music normally, the connection has been completed.
9. If you want to use another music player as a sound source after GDB-401 has been paired with a mobile phone successfully, GDB-401 needs to be paired with Bluetooth-enabled music players or adaptors through the following process.
 - a. Turn off both a mobile phone and GDB-401 to disconnect the present hands-free connection temporarily.
 - b. Repeat the aforementioned step 2 and 5 to pair GDB-401 with a streaming music player.

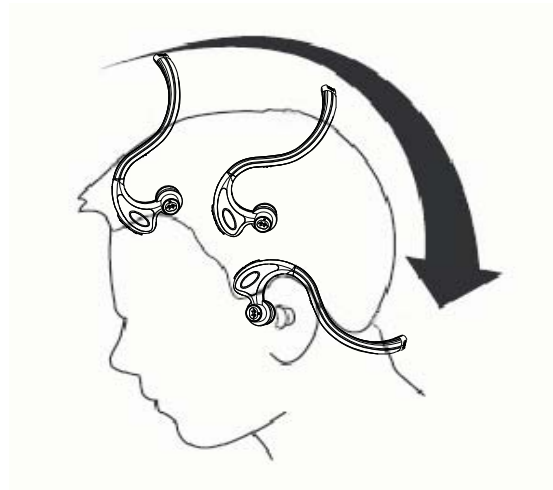
Caution: For a Bluetooth adaptor, it shall be paired with GDB-401 automatically when it is turned on, or the button of the adaptor needs to be pressed. For the method to pair an adaptor with a Bluetooth device successfully, see the user guide of the applicable adaptor.
 - c. Turn a mobile phone on to make a hands-free connection again. After a moment, a hands-free connection between a mobile phone and GDB-401 is established.

Wearing GDB-401

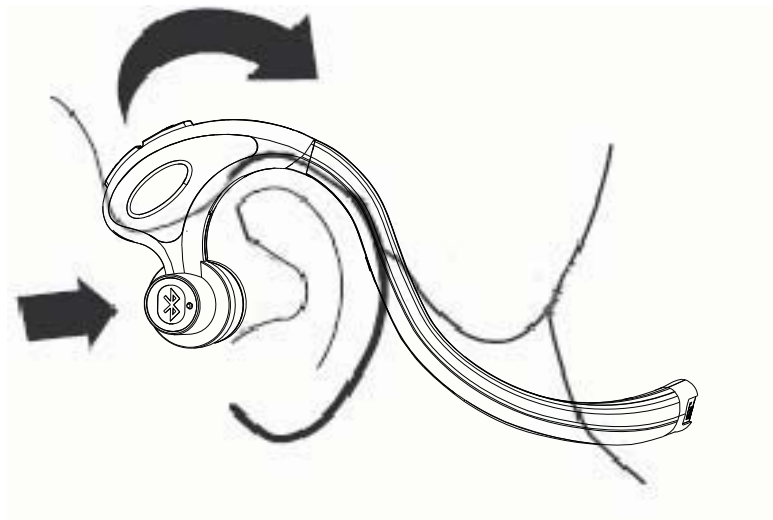
Wear GDB-401 over your head in the following order.

Important: Please handle GDB-401 with your hands.

1. Rotate GDB-401 over your head as shown in the following figure.




2. As shown in the figure, hang the ear hook on your ear and position the speaker on the temple in front of the ear.




Operation Methods

Operating and Stopping GDB-401

To turn GDB-401 on, press down Call button () for 2-4 seconds until the LED indicator is on in blue.

Once GDB-401 has been turned on, it is paired with the last Bluetooth devices (e.g. Bluetooth-enabled mobile phones or music players) which it previously paired with automatically while sounding a beep.







To turn GDB-401 off, press down Call button () for 5-6 seconds until the LED indicator blinks in red and blue alternatively.

When Bluetooth is not connected

When GDB-401 is turned on and not connected to any Bluetooth devices, it enters into a standby mode and the blue LED indicator blinks two times. For the method to pair Bluetooth devices with GDB-401, see p.19 "Pairing with Bluetooth Devices".

Listening to Music

The method to listen to music from connected streaming sound sources is presented in the below table.

Playback or pause	Press  .
Stop	Press  for several seconds until the unit sounds a beep.
Volume control	Press  to increase the volume.
	Press  to decrease the volume.
Shift to the previous track	Press  .
Shift to the next track	Press  .








Sending/Receiving a Call

With GDB-401, sending or receiving a call is available at Bluetooth-enabled mobile phones.

To send a call, enter the phone number into a mobile phone and press Call button of GDB-401.

Note: 1. When you receive an incoming call, the music played from a Bluetooth sound source is paused automatically. When the call is finished, the paused music is resumed automatically.

2. When you send a call in the middle of A2DP streaming, the streaming is paused. When the call is finished, the paused streaming is not resumed until Play button is pressed.

Sending a call (with hands)	Phone: On (standby) / GDB-401: On Enter the phone number into a mobile phone and press Call button ().
Sending a call (with voice)	Phone: On (standby) / GDB-401: On Press Call button () and speak the name to who you want to send a call.
Redialing	Phone: On (standby) / GDB-401: On Press Call button () for several seconds until a redial tone is heard.
Receiving a call	Phone: On (ringtone) / GDB-401: On Press Call button ().
Finishing a call	Phone: On (talking) / GDB-401: On Press Call button (). A call is finished even in the call waiting status.
Mute / Cancelling mute	Phone: On (talking) / GDB-401: On Press Volume button () for 3 seconds. In the mute status, the LED indicator blinks in purple.
Converting from GDB-401 to a mobile phone	Phone: On (ringtone) / GDB-401: On Press Play button () for 5 seconds.

GDB-401 LED Indicator

The LED indicator of GDB-401 indicates status.

When a charger is connected to the unit

LED	Status
Red (on)	The battery is charging
Blinking	The battery has finished charging

When a charger is not connected to the unit

LED	Status
Blue (blinking 2 times)	Power on / LED indicator is on
Blue (blinking 1 time)	Standby (the unit is connected but not in the status of sending/receiving a call or streaming music)
Blue and red (blinking alternatively)	A call is incoming
Blue (long blinking)	In talking over the phone
Blue (blinking at intervals of 2 seconds)	In streaming music

GDB-401 Audible Tones

The audible tones of GDB-401 indicates status.

Audible tone	Status
Dual-tone in controlling the volume	The volume reaches to the peak or the lowest level
Mono-tone in controlling the volume	The volume increased or decreased
High-pitch dual-tone	Low battery
Ring	A call is incoming
Ascending high-pitch tone	Pairing confirmed
Ascending middle-pitch tone	Setting mute
Continuous ascending tone	Power on
Continuous descending tone	Power off

Information of Customer Support Center

Customer Help Center: 82-32-512-4340 ~ 1

Business Hours

- Customer Relations Office: 09:00 to 18:00, from Monday to Friday
Closed at holidays, Saturday and Sunday
- A/S Center: 09:00 to 18:00, from Monday to Friday
Closed at holidays, Saturday and Sunday

GD TECH Homepage: www.gdtech.co.kr



This mark shown in the products of GD TECH means that the applicable product should not be disposed with general household garbage. Please be careful not to dispose the accessories of mobile phones or the electrics such as chargers or headsets with household garbage.

The mobile phone or electronics accessories picked up are recycled into resources and the residues are disposed in an environmental friendly manner.

For further information on the picking up system, contact your local government office.

We ask for your positive participation.

GDB-401 Specifications

Version : 1.0

Tx Frequencies : 2402 ~ 2480 MHz

The Number of Channels : 79

Oscillation Mechanism : Crystal Oscillating

Input Voltage : Charger supply : DC 5V

LED / Bluetooth system control : DC 3.7V

Dimensions (HxWxL) : 142(mm) x 160 (mm) x 63 (mm)

Weight : 50g

Operating Temperature Range : -10℃ to +50℃

Type of Emission : Wireless Device for Wireless Data Communication System (Type Code : F1D)

Communication Mode : Simplex

Modulation : GFSK

Enjoy Bluetooth stereo music streaming to the full!

Now you can listen to music by the remote control freely without any cables.

Here are some directions to use this product to the optimum performance.

Directions:

Use GDB-401 with a full-charged battery.

To avoid signal interference, do not place metallic items near a mobile phone or headphone

GDB-401 shall be placed within the range of Bluetooth signal from a sound source(about 10m).

GD TECH's Bluetooth Stereo Headphone GDB-401 is available regardless of place indoor and outdoor.

In outdoor use, Bluetooth signal can be affected by a huge space and the location of a music player.

As described in the above, you can enjoy the performance of GDB-401 more effectively outdoor if you position a music player at waist height or above.*

If the sound quality is not good, try to change the position of a music player .

By doing this, noise or distortion occurred due to the blocking of Bluetooth signal by the body or belongings can be avoided. Please refer to the manual of GDP-401 or your music player.

* Music can be cut off when a music player is in the pocket outdoors.

All other product or service names are the property of their registered owners.

FCC RF INTERFERENCE STATEMENT

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 technical for help.
- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment

Warranty

Thank you for buying the products of GD TECH.

Before shipment, this product had gone through a thorough quality control and precise examination of the GD TECH engineering team.

If a manufacturing defect or natural failure occurs within the warranty period, the GD TECH authorized service center will repair the product for free.

■ Warranty period : One-year (for batteries: 6-month)

■ Free service : Fully backed by a free service when there is a failure within one-year (warranty period) after the purchase took place.

■ Service at a cost :

- Because the request of service will incur expenses, please be sure to read the instructions to check if a failure or not before requesting the service.
- A failure due to the negligence of the consumer
- A failure due to the careless handling, dismantling, repairing or remodeling by the consumer
- A failure or damage due to the dropping of the unit on moving after installation is completed
- A failure due to natural disasters (fire, salt damage, flood, etc.)
- When the life of consumable parts comes to an end
- A failure due to the use of consumables or optional items not designated by GD TECH
- A failure due to the use of items not supplied by GD TECH and purchased separate

GD TECH Co., Ltd.