

MODEL: ABT304



by Aerpro

CAR HANDSFREE WITH SPEECH PROCESSOR

 Bluetooth™



by Aerpro

CAR HANDSFREE SPEAKER

MODEL: ABT304

www.aerpro.com



105P000135A0

Declaration:

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The company reserves rights to make any changes and improvements to the product described in this document without prior notice.

Notice :

Please make sure your mobile phone supports Bluetooth profiles and network operator supports the functions described in this manual, otherwise the relative functions cannot be realized on this Handsfree device.

Safety

- Use the charger that comes with package.
- Caution, risk of explosion if battery is replaced by an incorrect type.
- Check the laws and regulations on the use of mobile phones and handsfree equipment in the areas where you drive. Always give full attention to driving and pull off the road and park before making or answering a call if driving conditions require.
- Do not allow children to play with your Bluetooth Handsfree Speaker since it contains small parts that could become detached and create a choking hazard.
- This device contains a Li-polymer battery. Please keep it away from fire anytime (including discarding the device) or the battery may explode.
- The Handsfree Speaker, especially the embedded battery must be properly disposed or may be recycled, contacts your local recycling centers for disposal methods.

Certification and Safety Approvals

This product has been tested and found to comply with Bluetooth BQB requirements, part 15 of FCC rules, R&TTE Directive (99/5/EC) or CE marked requirements. Users should not make changes or modify the device in any way. Changes or modifications without expressly approved by the party responsible for compliance could void the user's authority to operate the device.

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.

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

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.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

CE command:

ETSI EN 301 489-1 V1.6.1(2005-09);
ETSI EN 301 489-17 V1.2.2(2002-08);
ETSI EN 300 328 V1.6.1(2004-11);
IEC 60950-1:2001, EN 60950-1:2001+A11:2004

6. Important Messages and Frequently Asked Questions

Q1. Red LED blinking:

Low battery indicator; please recharge your battery as soon as possible.

Q2. Can't power up the device after charging more than 20 minutes:

For the first time, the device should be charged at least 40 minute prior tuning on, It is recommended that the battery should be fully charged before using the device.

Q3. Without charging indicator:

When the battery runs off or the handsfree has not been used for a while, the Red LED may take a while to light up after the charger connected.

Q4. Can't hear anything on handsfree: you should check the followings

- Handsfree is power on
- Handsfree has paired with a handset
- Handsfree should connected with a handset (except the handset only supports Handsfree Profile)
- Handsfree and handset are within 10m
- Handsfree and handset should have good single strength

Q5. Does the paired handsfree or the paired handset need to be repaired after power off:

No. Please note that for the handset supports handsfree profile, the handsfree and the handset must be connected first before making/receiving. Refer section 2.4.3 for details.

Q6. Voice dialing does not work:

First check whether or not the handset supports voice dialing function. Then make sure you have recorded the voice tag. Please note that noisy environment may affect voice dialing.


Q7. How can I upgrade my bluetooth device to the most updated software version

Please refer the section 3 for details.

If you don't have enough knowledge to handle this upgrade, you can recommend the device to your appointed local service center, and let the service personnel to do so.

If something wrong when you upgrade it by yourself, you would also recommend the device to your local service center to ask for help.

Q8. If the device can not be power on

There is a reset button  on the left. Resetting the device with a sharp pin can bring it back to normal operation.

5. Maintenance

ABT304 is a well-designed communications device, careful maintenance and proper use will extend the product life and keep its elite performance in delivering voice and music. Following maintenance procedures may be helpful to you:

- Always turn off power and keep your device in a safe place when it is not in use
- Keep the device dry, away from water, precipitation, humidity, moisture, and various liquids that may corrode electronic circuits. If your device gets wet, turn it off immediately and wait until the device gets dry completely before using it
- Keep the device away from dusty and dirty places. Otherwise, the mechanic and electronic parts could be damaged
- Do not store the device in high temperatures or in direct sunlight. Extreme high temperature could degrade performance, reduce battery lifetime, and wrap or melt the certain plastics.
- Do not store the device in too cold place. Moisture could form inside the device when you take it to a warm place. This could damage the internal electronic circuits.
- Avoid dropping, knocking, and shaking the device. The mechanical parts and the internal electronic circuits could be broken.
- Avoid using harsh chemicals, cleaning solvents, and any other strong detergent to clean the device. You may use a clean and slightly damp cloth to clean the device
- Always take to device to the nearest authorized service facility for repairing if it is malfunctioning. Disassembling, modifying, and replacing components yourself could degrade product performance, cause damages, and terminate warranty

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1. Introduction

1.1 Bluetooth Technology

Bluetooth is an internationally standardized technology supporting short distance wireless communications. Any two Bluetooth-compatible equipments can wirelessly communicate with each other via Bluetooth connection.

Though line-of-sight is not required, Bluetooth connections could be subject to interferences from obstructions such as walls, human bodies, and other electronic devices. In addition, due to variations on product implementation, it is likely that Bluetooth equipments from different manufacturers have interoperability issues. In that case, you may consult with manufacturers to check product compatibility.

Note that, there could be some restrictions imposing on using Bluetooth devices in some countries. Please check with your local authorities.

1.2 Bluetooth Handsfree Speaker

This Bluetooth handsfree speaker is a specially designed product allowing car drivers to make and receive calls without holding a mobile phone. It provides a clean wireless audio connection with your Bluetooth mobile phone and PDA.

In addition to vehicle environment applications, this portable equipment, supported by an internal rechargeable Li-ion battery, can also be used in office environment as normal handsfree equipment to make/receive conference phone calls. It can also be placed beside a Bluetooth-enabled PC to make voice calls over the Internet.

1.3 Product Features

- Bluetooth 2.0+EDR compliant, and data rate up to 2.1 Mbps
- Class II, operating range up to 10 meters
- Support HSP, HFP, A2DP, AVRCP profile
- Compatible with most Bluetooth-enabled devices such as mobile phones, PDAs, and computers for voice communication and music playing
- Support up to 8 handset pairing info simultaneously
- Support up to Bluetooth connections to two handsets at the same time
- Best-in-class voice quality ensured by cutting-edge noise suppression and echo cancellation techniques
- Text-to-Speech with Caller ID/Name/status announcement
- Voice dialing, and user friendly operation keys ideal for car drivers to make/receive calls
- Support Call Waiting and Conference functions
- Support end-user software self-upgradeable to improve future handset

Table 7: Work in with IVT and Windows Media Player






FUNCTION	CURRENT STATUS		OPERATION	HANDSFREE INDICATOR	
	HANDSET	HF		AUDIO TONE	LED INDICATOR
Play	IVT/Media player on		Press call button 		
Pause	IVT/Media player on		Press call button 		
Stop	IVT/Media player on		Press and hold call button  for at least 3 seconds		
Volume up	IVT/Media player on		Welter volume wheel up		
Volume down	IVT/Media player on		Welter volume wheel down		
Forward	IVT/Media player on		Press  button		
Backward	IVT/Media player on		Press  button		

Table 4: Transfer Functions










FUNCTION	CURRENT STATUS		OPERATION	HANDSFREE INDICATOR	
	HANDSET	HF		AUDIO TONE	LED INDICATOR
Call Transfer (handsfree to handset)	Talk	Talk	Press and hold call button  for at least 3 seconds	Key Tone	Pattern 1
Call Transfer (handset to handsfree)	Talk	Talk	Press call button 	Key Tone	Pattern 2

Table 5: Low Power Indication

FUNCTION	CURRENT STATUS		OPERATION	HANDSFREE INDICATOR	
	HANDSET	HF		AUDIO TONE	LED INDICATOR
Low Power Warning		Except power off		"Battery low" every 2 minutes	Pattern 4

Table 6: Advanced Call Functions

FUNCTION	CURRENT STATUS		OPERATION	HANDSFREE INDICATOR	
	HAND SET	HF		AUDIO TONE	LED INDICATOR
Held Active Call and Accept Incoming Call	Talk	Call Waiting	Press and hold  button for at least 3 seconds		Pattern 2
End Active Call and Answer New Call	Talk	Call Waiting	Press and hold call button  for at least 3 seconds		Pattern 2
Reject the new call	Talk	Call Waiting	Press call button 		Pattern 2
End held call	Talk	Call On Hold	Press call button 		Pattern 2
Toggle Held Call and Active Call	Talk	Call On Hold	Press and hold  button for at least 3 seconds		Pattern 2
End Active Call and Accept Hold Call	Talk	Call On Hold	Press and hold call button  for at least 3 seconds		Pattern 2
Conference Calls	Talk	Call On Hold	Press  button		Pattern 2

compatibility

- Better portability with internal rechargeable battery
- Low power consumption, up to 8 hours talk time and 600 hours standby time with the internal battery
- Easy-to-mount with Sun visor clip

1.4 Package Contents

- ABT304 1
- 12/24V Car Charger Set (or Traveling Charger Set, Optional) 1
- User Manual 1

1.5 Overview

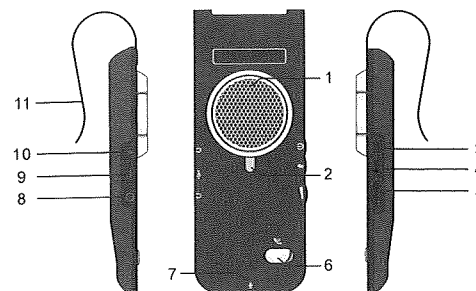











Figure 1 Overview

1. **Speaker:** Voice/AV music delivery.
2. **Red/Blue LED:** Indicating device status.
3. **Power Button** : Switch the device on/off, pair.
4. **Mute** : call mute, last number redial, voice dialing.
5. **Volume wheel** : Volume up or down.
6. **Call Button** : Answer/reject/end call, connect/disconnect, transfer a call between handsfree and phone.
7. **Microphone** : Voice pick-up
8. **Earphone jack** : Connect external earphone.

9. **Charging Port** : Connect to the travel (or car) charger to charge the battery of device
10. **RESET** 
11. **Sun-visor Clip**

Warning: To avoid potential damages, the device may automatically lock all keys following improper operations or usage. If this happens, the user can unlock the device by pushing the reset button .

1.6 LED Indicator Patterns

- Standby (disconnected): Blue LED gives 1 blink per 3 seconds; Red LED is off.
- Connected: Blue LED gives 3 quick blinks per 2 seconds; Red LED is off.
- Pairing mode: Blue and Red LEDs alternate continuously.
- Battery low: Blue and Red LEDs alternate every 3 seconds.
- Select language: Red LED always on; Blue LED is off.
- Power off: All LEDs are off.












Pair handsfree with handset	Power on	Pairing mode	Follows your handset user guide to complete pairing procedure. Passkey is "0000"	"Pairing successful"	Pattern 1
Connect with handset (Success)	Standby (disconnected)	Standby (disconnected)	Press call button  or set up connection from the handset	"Connecting to phone" → "Phone connected"	Pattern 2
Connect with handset (Fail)	Standby (disconnected)	Standby (disconnected)	Press call button  or set up connection from the handset	"Connecting to phone" → "No phone detected"	Pattern 1
Disconnect	Standby (connect)	Standby (connect)	Press and hold call button  for at least 3 seconds or refer to handset's manual to initiate the connection from the handset side.	"Phone disconnected"	Pattern 1

Table 3: Call Functions

FUNCTION	CURRENT STATUS		OPERATION	HANDSFREE INDICATOR	
	HANDSET	HF		AUDIO TONE	LED INDICATOR
Answer Call	Incoming call	Incoming call	Press call button 	"Call from xxx"/"Call from private"	Pattern 2
Reject Call	Incoming call	Incoming call	Press and hold call button  for at least 3 seconds	"Call rejected"	Pattern 2
End Call	Talk	Talk	Press call button 		Pattern 2
Redial	Standby	Standby	Press and hold  button for at least 3 seconds	"Redialing"	Pattern 2
Voice Dialing	Standby	Standby	Press and hold  button for at least 6 seconds	Key Tone	Pattern 2
Cancel Voice Dialing	Voice Dialing	Voice Dialing	Press  button	Key Tone	Pattern 2
Volume up	Talk	Talk	Welder volume wheel up		Pattern 2
Volume down	Talk	Talk	Welder volume wheel down		Pattern 2
Mute	Talk	Talk	Press  button	Key Tone	Pattern 2
Unmute	Talk	Mute	Press  button	Key Tone	Pattern 2

4. Quick User Guide

4.1 LED Indicator Patterns

- Pattern 1: Blue LED gives 1 blink per 3 seconds; Red LED is off.
—— Standby (disconnected)
- Pattern 2: Blue LED gives 3 quick blinks per 2 seconds; Red LED is off.
—— Connected
- Pattern 3: Blue and Red LEDs alternate continuously. —— Pairing mode
- Pattern 4: Blue and Red LEDs alternate every 3 seconds. —— Battery low
- Pattern 5: Red LED always on; Blue LED is off. —— Select language
- Pattern 6: All LEDs are off. —— Power off

4.2 Quick User Guide

You can follow the instructions listed in Table 1-7 below to operate your handsfree devices. (Please refer to section 1.5 for details of key and key press duration definitions.)

Table 1: Power on/off






FUNCTION	CURRENT STATUS		OPERATION	HANDSFREE INDICATOR	
	HANDSET	HF		AUDIO TONE	LED INDICATOR
Turn On		Power Off	Press and hold  button for at least 3 seconds	"Handsfree device ready"	Pattern 1
Turn Off		Standby	Press and hold  button for at least 3 seconds	"Handsfree device power off"	Pattern 6

Table 2: Pairing/Connections

FUNCTION	CURRENT STATUS		OPERATION	HANDSFREE INDICATOR	
	HANDSET	HF		AUDIO TONE	LED INDICATOR
Enter pairing mode		Power Off	Press and hold  button for at least 6 seconds	"Please select handsfree device from mobile phone and enter pin code 0000"	Pattern 3
Erase all paired profiles		Pairing Mode	Press and hold  button for at least 3 seconds	Key Tone	Pattern 1
Quit pairing mode		Pairing Mode	Press  button	Key Tone	Pattern 1

2. Using Your Handsfree

2.1 Battery Charging and Usage

2.1.1 Battery Charging

This device contains a rechargeable Li-Polymer battery. First-time charging time is about 4 hours. Later-on recharging time is around 2-3 hours. Detailed charging procedures as follows:

This device contains a rechargeable Li-Polymer battery. First-time charging needs about 4 hours. Later-on recharging needs 2-3 hours. Detailed charging procedures are as follows:

1. Referring to Figure 2, connect the charger cable to the device.
2. Plug the car charger into the cigarette lighter in your car to start charging. Both the Red and Blue LEDs will be on during charging. Once the Red LED turns off, the battery is fully charged and you should disconnect the charger.

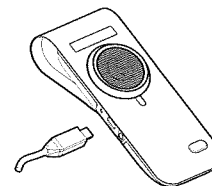


Figure 2 Battery Charging

You can also use the USB charging cable to charge the device on your PC, which will take longer to charge as the power output of the USB port is lower than it is with the car charger.

Once the battery is fully charged, it will provide up to 8 hours of talk time and up to 600 hours of standby time.

When the battery is low, the device prompts "Battery low" once every 2 minutes and the Blue and Red LEDs alternate every 3 seconds, and then you need to charge the battery as described above.

Note that, over-charging will reduce battery life. If a fully charged battery is left unused, it will lose power over time. Extreme temperature (either too hot or too cold) will also affect its ability to charge, capacity, and lifetime.

2.2 Mounting your Handsfree

This Handsfree device can be easily mounted inside the car by using the Sun-Visor Clip to fix the product on the sun-visor over the driver's seat.



Figure 3 Mounting

2.3 Turn On/Off Handsfree

Turn on the Device: Press and hold Φ button for at least 3 seconds, the Blue LED gives 3 quick blinks following by 1 blink per 3 seconds, and a voice will say "Handsfree device ready". This indicates the handsfree is power on.

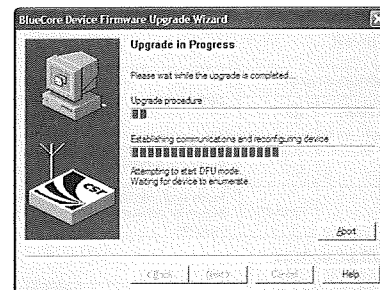
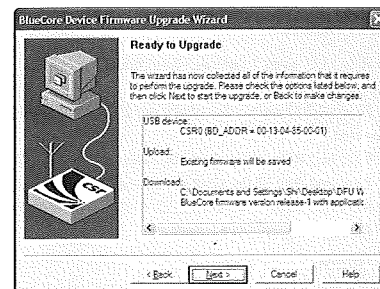
Turn off the Device: Press and hold Φ button for at least 3 seconds, you will hear a voice of "Handsfree device power off" and the Red LED will blink 3 times before all LEDs are off. This indicates the handsfree is power off.

2.4 Pairing/Connecting your Handsfree with Bluetooth Equipment

2.4.1 Pairing your Handsfree with Bluetooth handset

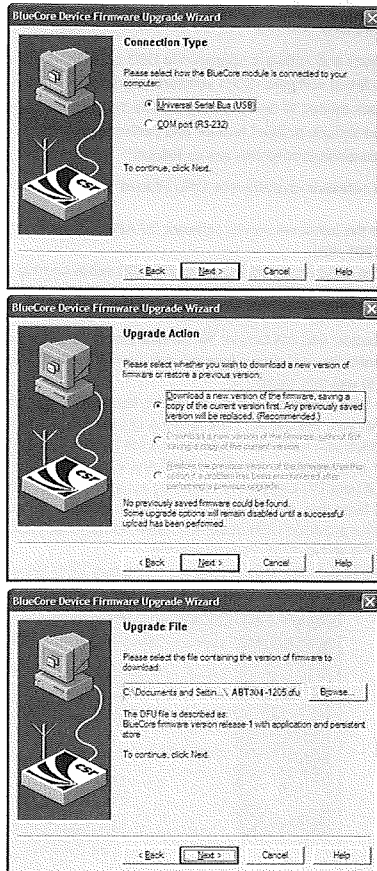
Before connecting the handsfree device with handset, you must pair it with your handset. Detailed operation procedures are as follows:

1. Place your handsfree close to your Bluetooth handset, and ensure your handsfree is power off and your handset is power on
2. Press and hold Φ button for at least 6 seconds until the Blue and Red LEDs alternate continuously. You will hear a voice of "Please select handsfree device from mobile phone and enter pin code 0000" to indicate that the handsfree has successfully entered the pairing mode.
3. Following your phone user guide to activate Bluetooth device search on the phone side, on your phone screen you will see a list of Bluetooth equipment found by the phone at the end of the searching process. Select ABT304 from the list, and initiate pairing following handset's on-screen prompts.
4. Continue to follow on-screen prompts to enter passkey "0000" and confirm to pair the handsfree with your handset. Once the pairing procedure is completed, you



Warning:

Interrupting the upgrade process, such as lost of power, USB cable disconnection may cause unrecoverable software errors in your handsfree and the device will fail to work. You may have to return the product to the vendor for software recovery. Before upgrading your device software, please ensure that your device has enough battery power, the USB cable has been firmly connected to both your PC and your device, and the software execution on your PC will not be interrupted.




will hear a voice of "Pairing successful". It indicates that the handsfree device and the handset are paired.

5. After it is paired, the device will connect to the handset. Once they have established HF/HS connection successfully, you will get a voice prompt of "Phone connected".

Note that, your handsfree will remain in the pairing mode for about 2 minutes. If pairing cannot be finished within 2 minutes, the handsfree will enter into the standby mode (without Bluetooth connection in this case). You need to turn the handsfree off and then repeat steps 2-4 to restart the pairing process.


If you want to use the device with another mobile phone, you must repeat the pairing process again. You can also follow the user guide of the Bluetooth equipment to complete pairing operations on the equipment side.

2.4.2 Disconnecting Device with Bluetooth Handset

When connected, you can press and hold  for at least 3 seconds to drop all connection, or you can follow the handset's manual to remove connection from the handset side.

When disconnection is completed, you will hear a voice of "Phone disconnected", and then Blue LED gives 1 blink per 3 seconds.


2.4.3 Connecting Device with Bluetooth Equipment

If the device and the handset have been paired, to connect them, you can either quick press handsfree's call button  to initiate a connection request or follow the handset's user guide to find the handsfree and send a connection request from the handset.


When the connection is established, you will get a voice prompt of "Phone connected", and the Blue LED changes to 3 quick blinks per 2 seconds.

If the connection cannot be established, you will hear a voice of "No phone detected", and need to restart the connecting process.

2.4.4 Delete Paired Records



This handsfree can be paired with up to 8 Bluetooth equipments. When in the pairing mode, pressing and holding  button for at least 3 seconds will allow you to erase all paired Bluetooth device profiles stored in the handsfree. The handsfree will then quit from the pairing mode. The Blue LED will give 1 blink per 3 seconds.

2.4.5 Quit Pairing with Bluetooth Equipment

When the handsfree is in the pairing mode, press  button will shift the device from pairing mode to the standby mode. The Blue LED will give 1 blink per 3 seconds.

2.4.6 Select TTS language


The device can support TTS prompts in 4 languages which are English, French, German and Spanish.

Taking selecting English for example: When the handsfree is in the pairing mode, press and hold  button for at least 6 seconds to select TTS language, and the Red LED will be always on. When you hear the voice "Press call button to select British English", press call button  to confirm the selection. After selecting the language, a voice of "British English selected" will be heard to indicate the language of TTS prompt changes to English, and the device will enter the pairing mode.


2.5 Call Functions

2.5.1 Basic Call Operations


Answer Call

When a call comes in, the phone number of the coming caller will be announced. Press call button  to answer the call.

Reject Call

Press and hold call button  for at least 3 seconds.

End Call

Press call button .

Redial

Press and hold  button for at least 3 seconds




Adjust Volume

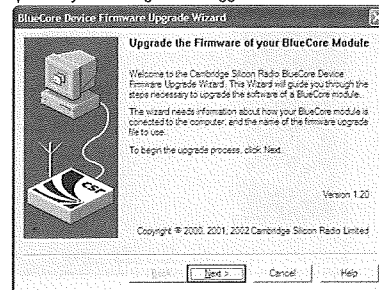
When in the talk mode, you can adjust sound volume up or down by rolling the volume wheel up or down.

Note: For most Bluetooth handset, handsfree volume control will synchronize with the handset. That is, the sound volume of your handsfree can be controlled by your handset,

3. Upgrade Software

This device supports self software upgrade via USB port. This unique feature allows you to always get the latest software. Such software upgrade may help you to resolve some compatibility issues related to new handset models entering the market. Our upgrade software may also include product feature and performance improvement which you may want. Detailed operation procedures are as follows:

1. Download software upgrade tool 'DFU Wizard' from our website and install it in your PC.
2. Download the latest version of software for ABT304 from our website (Such as ABT304-1205.dfu).
3. Connect the handsfree with PC using the USB cable coming with the package. (In order to update the software successfully, it is better to unplug other Bluetooth equipment from the PC USB port at the same time.)
4. Press  button and call button  simultaneously to enter the software upgrade mode. If enter the software upgrade mode by misoperation, you can double press  button to exit this mode.
5. Install the USB driver in your PC, if it is the first time of your PC to update the software for your handsfree. (The location of the USA Driver is the folder 'DFU Wizard' which you have downloaded, and the file name is CSRBlueCoreUSB.inf. The driver only works on Windows 2000 and Windows XP operating system currently. If your PC used other operating system, it will be unable to update the software.) Note that, even if your PC has been installed with other USB driver, you must use the provided USB driver to update. Otherwise, your PC might be unable to update the software for your handsfree.
6. Continue to update the software by executing tool 'DFU Wizard', and click 'Next' to carry out sequentially according to the suggestions.



you can listen to the music and use handsfree's microphone. However, you can't use the handsfree to control the remote device.


If you use Bluetooth windows driver other than IVT's BlueSoleil, you may follow software vendor's user manual to complete pairing and connecting your handsfree with your USB dongle.

2.8 Two-Link Operation

Compared with the ordinary Bluetooth handsfree device in the market which can only connect to one single handset at one time, ABT304 allows you to connect two paired handsets simultaneously. Thus, this is very convenient for users with two handsets.

2.8.1 Connecting Two Handsets Simultaneously

To connect with two paired handsets (Refer to Section 2.4.1 for pairing procedures), you can:

1. Switch on the handsfree. The handsfree automatically starts to connect the last two handsets which were connected to it.
2. Initiate connection request from the Handsfree:
When the handsfree is in standby mode, which means no Bluetooth connection exists, press button  to connect the device last connected to it. Once the connection is established, start to connect the second to the last device. Note that, if your handsets are not the last or second to the last connected handsets, you need to make connections from the handset side.
3. Initiate connection request from the Handsets:
Initiate Bluetooth connection from your handsets one after the other by following your handset manuals. Note that you have to wait one connection is completed before launching the other.

When two handsets are connected with the handsfree, the one which is connected to the handsfree first works as the primary device and the other is the secondary device. Only when the first handset is disconnected from the handsfree, the primary/secondary relation can be handed over.


Any operation initiated from the handsfree side, such as redialing and voice dialing, will only be applied to the primary device.

Operations initiated from either handset shall be applied to the handsfree as normal.

2.8.2 Call Operations


When two handsets are both connected to the Handsfree:


1. If only one handset receives a call, the call will be transferred the handsfree and all call operations will be the same as the case of single connection.
2. If both of the connected handsets receive calls at the same time, only the first call will be transferred to and controlled by the handsfree (call waiting and conference call are also controlled by the handset which receives the first incoming call).

Unless the first call is terminated, and press call button  to transfer the second call on another handset to the device, the second call will stay on that handset.


vice versa. However, this may not be always true due to variations on handset implementations chosen by different manufacturers.

Voice Dialing


If the connected handset supports voice dialing, you can press and hold  button for at least 6 seconds to activate voice dialing. Before using voice dialing, you must record voice tags in your handset. Please refer to your handset manual for detailed descriptions on how to set up voice dialing and record voice tags.


When voice dialing is in progress, you can quick press  button to cancel voice dialing.

Mute an Active Call

You can mute or un-mute an ongoing call by pressing  button.








2.5.2 Transfer Calls between Handsfree and Handset

To transfer an active call from the device to your handset, press and hold call button  for at least 3 seconds, until the call is transferred to your handset.

To transfer an active call from your handset to the device, press call button  or use the functions of your handset as instructed in its user guide.

2.5.3 Advanced Call Functions

If your mobile phone has call waiting or conference functions, you can do the following with the handsfree device:

1. A new call comes in when the existing call is still in progress:
 - 1) Press and hold  button for at least 3 seconds to hold the active call and accept the new call.
 - 2) Press call button  for at least 3 seconds to end the current active call and answer the new call.
 - 3) Press call button , to keep the current call and reject the new incoming call.
2. When two calls are in progress, one is active and the other is on hold:
 - 1) Press call button  to end the held call.
 - 2) Press and hold  button for at least 3 seconds to toggle between the held call and the active call.
 - 3) Press call button  to end the active call and accept the held call.
 - 4) Press  button to make conference call.

2.6 AV Functions

This product supports AV Mode Functions. When connected with a Bluetooth-enabled multimedia/music player, the product allows users to enjoy and remotely play stereo music from the player.


2.6.1 Establish AV connection


For handset supporting Bluetooth A2DP profiles, you can establish AV connection between the handset and the device to enjoy music at the device side while the music is played by the handset. Depending on the handset capability, the AV connection could be established automatically when you start playing music.


If your handset does support Bluetooth AV profiles but you fail to get an AV connection when you start playing music, you must follow your handset's user guide to establish an AV connection before playing music.

2.6.2 AV Operations

The following operations can be used for remotely controlling your Bluetooth AV capable handset (must support AVRCP profile) or media player to play music:

Play: Press call button .

Pause: Press call button .

Stop: Press and hold call button  for at least 3 seconds.

Forward: Press  button.

Backward: Press  button.

In addition, you can adjust sound volume up or down by rolling the volume wheel up or down.

2.7 Pairing/Connecting with Other Bluetooth Equipment




In addition to Bluetooth phone, your handsfree can also pair with other Bluetooth equipment for realizing short distance wireless communications. Similar pairing procedures described in Section 2.4 can be used. You can also follow the user guide of the Bluetooth equipment to complete the pairing on the equipment side.

This handsfree can be paired with up to 8 Bluetooth equipments (including mobile handsets). The corresponding 8 sets of pairing information are recorded by the handsfree. Each paired equipment can wirelessly communicate with the handsfree after setting up a Bluetooth connection. Please check Section 2.4.3 on procedures to set up a Bluetooth connection.

2.7.1 Connecting your Handsfree with USB Dongle

Before pairing and connecting, you must ensure the USB Dongle has already been connected with your PC, and Bluetooth driver software IVT's BlueSoleil has been installed in PC.

Detailed operation procedures are as follows:

1. Press and hold  button for at least 6 seconds until the Blue and Red LEDs alternate continuously. You will hear a voice of "Please select handsfree device from mobile phone and enter pin code 0000" which indicates that the Handsfree has successfully entered the pairing mode.
2. Start "IVT BlueSoleil", click "My Bluetooth—>Bluetooth Device Discovery" on the main menu, and search the Bluetooth device in range.
3. After finding your handsfree device, right click "ABT304", and choose "Pair Device".
4. Enter passkey '0000' and confirm to pair the Handsfree with your computer.
5. After paired, a red  will be displayed before device name "ABT304". Right click "ABT304", choose "Connect—>Bluetooth AV Service" to establish AV connection between the handsfree and the PC.
6. For remotely playing and enjoying music from the PC, you can choose to start "Windows Media Player" and configure the speaker interface to be "Bluetooth AV/HS Audio" after establishing AV service connection.
7. After reconfiguration, restart "Windows Media Player". You can now listen to the music at the handsfree side. You can also use the handsfree to remotely control music playing on the PC, as described in Section 2.6.2.
8. For voice communications such as chatting over the Internet, you must disconnect "Bluetooth AV Service", and connect "Bluetooth Headset Service". First, right click "ABT304", choose "Disconnect—>Bluetooth AV Service".
9. Then, right click "ABT304", and choose "Connect—>Bluetooth Headset Service".
Once you hear indicating tones from the handsfree, press call button  to make the connection.
10. After setting up the connection, from the "Control Panel" you start "Volume and Audio Device" and configure the default device to be "Bluetooth AV/HS Audio".
Now you can use handsfree's microphone to conduct voice communications over the Internet.

Note that, when connecting with "Bluetooth AV Service", you can use Handsfree's buttons to control the remote device to play, pause, select music, and control volume up and down. However, you can't use the microphone at the handsfree side for voice communications. On the other hand, when connecting with "Bluetooth Headset Service",