

ASIANA IDT 

[www.earomix.com](http://www.earomix.com)

Printed Ver 2007-03 earomix ABT-S100 Copyrights©2007 ASIANA IDT, Inc.

 **Bluetooth® Stereo Headset**

For wireless communication  
For listening to high quality sound  
For convenient life

*Free From Wired...*

**earomix ABT-S100**

User guide



ASIANA IDT 

## Bluetooth Stereo Headset

# earomix ABT-S100

## Information to the user

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.

### [ CAUTION ]

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

## Product Introduction

The earomix ABT-S100 adopting the Bluetooth version 2.0, guarantees the outstanding call quality and opportunity to use multiple Bluetooth enabled devices simultaneously with multi pairing functions. ABT-S100 is supportive both for Headset and Hands-free Profile, which enables to control MP3 players, mobile phones, and other Bluetooth enabled devices.

## Contents

1. Getting Started	02
2. Pairing and Connecting	07
• Powering	08
• Pairing	09
• Connecting	11
• Multi Pairing (Pairing second Bluetooth enabled device)	11
3. Functions	12
4. Appendix	16
• Troubleshooting	16
• Safety Notes	18
• Glossary	19
• Specification	21
• FCC Compliance	22

## 1. Getting Started

### • Package contents



Headset

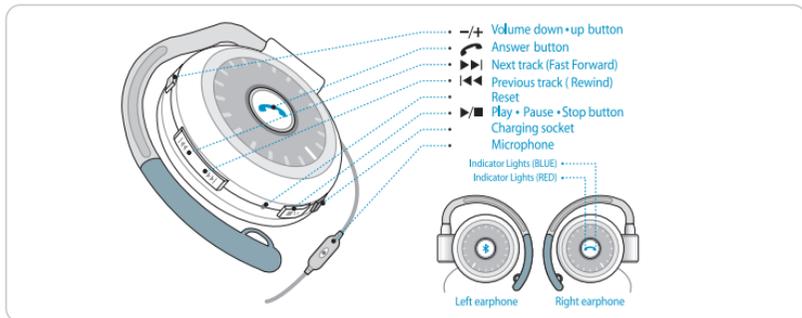


USB Charging Cable



User Guide

### • Features



### • Button controls

Button	Before state	Press time	After state
 Answer button	Standby	Short	Voice Dialing Cancel Voice Dialing New Dialing (On mobile phone) Cancel calling
		Long	Last number Redialing
	Call indication	Short	Accept a Call
		Long	Reject a Call
	Talking	Short	End a Call
		Long	Call Transfer (Headset / Mobile phone)
 Play • Pause • Stop button	Connectable	Short	Connect Request
		Long	Pairable
	Deep Sleep Mode	Long	Connectable
		Short	Play
	Standby	Long	Disconnect Request
		Short	Pause/Play
Play/Pause	Long	Stop	
	 Previous Track / Next Track	Short	Previous/Next Track
Long		Rewind/Fast Forward	
 Volume Down button	Play/Pause/Stop	Short	Volume Down
		Talking	Short
	Talking	Short	Mic Mute On/Off
		Long	Mic Mute On/Off
 Volume Up button	Play/Pause/Stop	Short	Volume Up
		Talking	Short
 Power On/Off	-	Long	Power On/Off
		 Battery Status Check	Standby

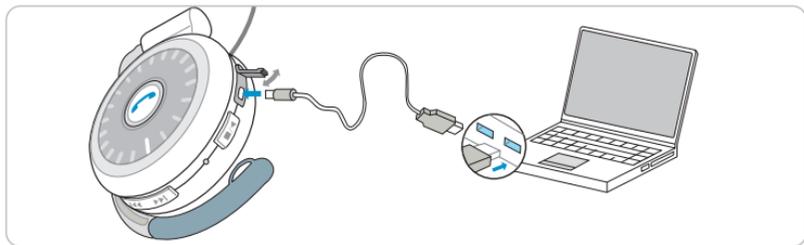
\* Short Key : 0.5 Second (Tapping Button) • Long Key : Over 3 Seconds

## • Charging

This headset has its own battery in it. The internal battery must be fully charged before using for the first time.

With the USB cable, one end goes in the USB port on the computer and the other end goes in the socket on the headset as shown in the picture below.

Full charge of the headset takes approximately 2 hours. Beep sound is generated every 30 seconds when the battery is low and the power goes off automatically after approximately 3 minutes.



## • Charging and Operating time

Charging time	Operating time		
	Talk	Standby	Music
2 hours	7 hours	120 hours	6 hours

## • Indicator Lights

Charging in progress	Red indicator on	
Charging completed	Red indicator off	
Battery Status Check	Remaining battery capacity 5~20%	Red flashes three times
	Remaining battery capacity 20~80%	Blue flashes three times
	Remaining battery capacity 80~100%	Red and Blue flash simultaneously three times
Connectable state	Red flashes every 2 seconds	
Pairable state	Red and Blue flash alternatively	
Bluetooth Device connected to Headset	Blue flash every 5 seconds	

### [Notes]

- earomix ABT-S100 headset must be fully charged before using it for the first time.
- Use only the USB charging cable provided with the product.
- Using unauthorized USB charging cable may lead to the headset failure.
- Operating the headset is not recommended while being charged, If you wish to answer the incoming call, while the headset is being charged, separate the charging cable completely before use.
- Press and hold down both |◀◀ and ▶▶| at the same time for 3 seconds to check battery remaining. It may not function correctly, if the buttons are not pressed as instructed.

## • Wearing

Wear the headset as shown in the picture below.



### [Notes]

The microphone is incorporated into the cable which connects the stereo headset.

## • Storing

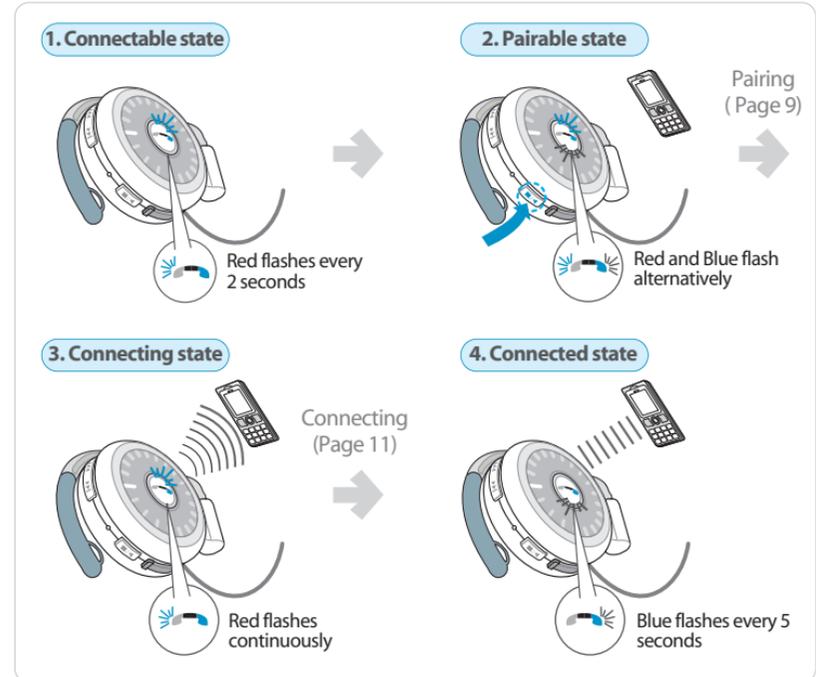
Turn the power off before safety storing it.

### [Caution]

- Do not keep it in a place with the temperature below 0°C(32°F) or above 40°C(104°F), under the direct sunshine or in a car which is hot heated by a sunshine.
- Keep headset or other parts in a dry place.

## 2. Pairing and connecting

See the following illustration for pairing and connecting devices.



## • Powering

When the headset is switched on, the headset is put in the connectable state that other device can be either paired or connected. In order to use with a mobile phone or other device, please pair or connect the headset to the mobile phone or the device.



### 1) Power On

Press and hold down both  and  at the same time for 3 seconds.

Red indicator light flashes three times and a high pitch beep is heard two times.

### 2) Power Off

Press and hold down both  and  at the same time for 3 seconds.

Blue indicator light flashes two times with single high pitch beep.

#### [Notes]

The headset must be fully charged before using it for the first time.

## • Pairing

Pair earomix ABT-S100 headset with mobile phone or other Bluetooth enabled device before using it. Pairing is a process establishing a new relationship between two Bluetooth enabled devices.



### 1 Put the headset in pairable state.

Switch the headset on.

When the headset is switched on, it flashes Red every 2 seconds.

Press and hold down /  until Red and Blue indicator lights flash in turn. (Approx. 3 seconds)

#### [Notes]

- If the headset is not paired within 3 minutes after going into the pairable state, it returns to the connectable state. In this case, the indicator light flashes Red every 2 seconds. Press and hold down /  for 3 seconds to make it in the pairable state again.
- Please put the headset and the device you wish to pair with closely.



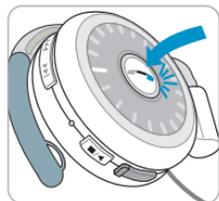
- 2 Search earomix ABT-S100 headset according to the user guide of the Bluetooth device.

In most cases, select 'set', 'connection' from the menu to search the Bluetooth device or select the option for add.



- 3 Select earomix ABT-S100 headset from the list of found devices.

If there is any question of whether the headset is to be paired or not, press 'yes' or 'confirm'. If the passkey (or PIN) is required on the screen, enter '0000' (four 0's) as the password of headset.



- 4 The indicator light flashes Blue when paired successfully.

[Notes]

Passkey or PIN is a code that you enter on your mobile phone to pair it with your headset. This makes your phone and the headset recognize each other and automatically work together.

## • Connecting

If the device has been paired before, just tapping ►/■ gives the re-establishment of connection between the headset and the paired device.

[Notes]

- The headset is on the connectable state once it is turned on. (Red flash every 2 seconds) If it is not connected to other device within 3 minutes in the connectable state, the headset goes into Deep Sleep mode.  
In order to establish the connection, press and hold down ►/■ for 3 seconds or turn the power on again and start it again.
- Disconnection  
The connection currently established with the device can be disconnected by pressing and holding down ►/■ for 3 seconds (standby state).  
\* Please stop music first, if music is being played.
- For detailed information on the connecting, see the user guide of mobile phone or other device. Time for making connection with the headset may vary from device to device.

## • Multi Pairing (Pairing second Bluetooth enabled device)

Bluetooth has been originally designed to have one Bluetooth enabled device paired at a time. If other device is to be connected to your headset, it firstly disconnects the currently paired device from headset and makes other device connected to the headset. However, ABT-S100 can be paired with two devices simultaneously. So, if either of them is to be connected to the headset, just make a connection with the device you wish to use.

[Notes]

- The device which is paired with headset first between mobile phone and other device will be used in mobile phone communication.  
For detailed information on the multi pairing, see the user guide of mobile phone or other device.

### 3. Functions

- **Standby mode**

- 1) Accept a call

- **Accepting a call in the standby mode**

For an incoming call, press  on the headset in a short time.

- **Accepting a call during music streaming**

For an incoming call, during the music playing, the music stops and the bell rings. At this time, press  shortly to connect the call.

If 2 ~ 4 seconds pass after the call finishes, the music resume playing without any additional operation.

- 2) End a call

Press  to disconnect a call.

- 3) Reject a call \*

Press and hold down  for 3 seconds to reject a call while the bell rings.

\* It is possible only when the mobile phone supports the call rejection function and the headset is paired with mobile phone as hands-free service or stereo headset service. It can be transmitted as a voice mail or the signal indicating that the line is busy.

- 4) Make a call

- **New Dialing (On mobile phone)**

Enter the phone number you wish to call on the mobile phone and press  on the headset.

[Notes]

The headset cannot be activated, if send button on the mobile phone is applied after entering the phone number. Press and hold down  on the headset for 3 seconds to activate to the headset.

- **Last number Redialing**

Press and hold down  for 3 seconds. At this time, the last numbers are listed on the mobile phone, may vary depending on the type of mobile phone. And press  button once.

[Notes]

Some mobile phones do not list the last phone numbers but makes a direct call to the number.

- **Voice Dialing \***

Press and hold down  shortly and say the name. To cancel voice dialing feature, please tap  shortly. This may not work correctly, please see the user guide of mobile phone.

\* This function is available only when the mobile phone supports the voice recognition and the headset is paired with as handsfree service or stereo headset service. For details, see the user guide of mobile phone.

- **Talk mode**

Functions during talking (talk mode) may not be working as intended for some mobile phones.

- 1) Adjust volume

Press **+** or **-** shortly to control the volume during calling during talking.

- 2) Mic Mute On/Off

Press and hold down **-** for 3 seconds for the caller not to hear my voice.  
Press and hold down **-** for 3 seconds to reset it.

## 2) Call transfer

If the call is transferred from mobile phone to headset, Press and hold down  for 3 seconds. (This also applied when the call is to be transferred from headset to mobile phone.)

### [Notes]

Some mobile phones do not support call transfer function. Please see the mobile phones' user guide for details.

## • Music streaming mode

Play/Pause	Press  shortly
Stop	Press  long
Previous Track / Next Track	Press  shortly
Rewind / Fast Forward	down  approx. 3 seconds and release to resume
Adjusting Volume	Press  shortly

### [Notes]

- That applies only when the connected device supports the Bluetooth Audio Remote Control Profile (AVRCP). See the glossary on Page 19 for more information.
- Some mobile phone may play only MP3 files. In this case, make sure that the stored music is in MP3 format.
- Holding the  more than 4 seconds may lead to disconnection between the headset with some mobile phones.

## • Headset Controls

Function	Before state	Button Definition		Sound Effect	Indicator Light
		Button	Press Time		
<b>Pairing mode</b>					
Power On	-	 +	Long	High-pitch Beep (twice)	Flashing Red every 2 seconds
Power Off	Don't care	 +	Long	High-pitch Beep	Flashing Blue two times
Pairing Mode-Enter (Pairable)	Connectable		Long	Low-pitch Beep (twice)	Flashing Red and Blue alternatively
Reconnect	Connectable		Short	Low-pitch Beep (twice slowly)	Flashing Blue every 5 seconds
Disconnect (Disconnectable Request)	Standby		Long	No tone	Flashing Red every 2 seconds
Quit Deep Sleep Mode	Deep Sleep Mode		Long	No tone	Flashing Red every 2 seconds
Battery Status Check	Standby		Long	No tone	Depends on Battery status (5 page)
<b>Music streaming mode</b>					
Play/Pause	Pause/Play		Short	No tone	
Stop	Play/Pause		Long	No tone	
Previous/Next Track	Play/Pause/Stop		Short	No tone	
Rewind/Fast Forward	Play/Pause/Stop		Long	No tone	
Adjust Volume	Play/Pause/Stop/Talking		Short	No tone	
<b>Standby mode</b>					
Accept a Call	Call indication		Short	No tone	Flashing Blue every 2 seconds
Reject a Call	Call indication		Long	High-pitch Beep	
Voice Dialing	Standby		Short	No tone	
Last number Redialing	Standby		Long	No tone	
<b>Talk mode</b>					
End a call	Talking		Short	High-pitch Beep	
Mic Mute On/Off	Talking		Long	No tone	
Call Transfer (Headset/Mobile phone)	Talking		Long	No tone	

• Short Key : 0.5 Second (Tapping Button) • Long Key : Over 3 Seconds

## 4. Appendix

### • Troubleshooting

#### 1) In case the sound is disconnected.

- As the Bluetooth is a wireless technology, it is sensitive to object located between headset and connected device. Even when there is not big object such as wall, the distance between headset and the device shall not exceed 10m(33 feet).
- Keep the cordless telephone or wireless network device away from the headset and mobile phone as they make noises or electronic wave.
- The electronic wave is in unstable status. Move the headset and mobile phone nearer.

#### 2) No sound at all.

- Check the volume of headset.
- Check if the headset is paired with playing device.
- Check if the blue indicator light on Call flashes every 5 seconds. If it keeps not working, then, make sure that it is connected to mobile phone or other device.
- Despite repowering the headset, if it keeps occurring, press the reset hole on the side of right earphone to initialize the product.

#### 3) In case the pairing does not work.

- The pairing might have been deleted from the mobile phone. Pair it again as instructed on page 9.

#### 4) In case other device such as PC or MP3 player does not conduct stereo streaming.

- Check if the device supports Bluetooth Version 1.2 or 2.0 and it has the Advanced Audio Distribution Profile(A2DP). It can work only when these conditions are met. See the user guide of the device for pairing.

#### 5) In case the stereo is played but the music control button does not work.

- Make sure that the connected device supports the Audio/Video Remote Control Profile(AVRCP).

#### 6) In case rejecting call, last number redialing, voice dial does not work.

- It works only when the mobile phone supports the above functions and the headset is paired with mobile phone as handsfree service or stereo headset service.

#### 7) In case the talk time of battery is different from described in the user guide.

- As the battery for this product is consumable, its use time gets shorter as the battery is used.
- The battery time also gets shorter when the headset is placed in hot or low temperature.
- The warranty for the battery is 6 months. If you want to replace the battery, visit the customer center.
- The life of battery depends on the environment of use.

## • Safety Notes

### 1) Cautions

1. Keep it away from heating sources as it may explode.
2. Do not drop it or give a strong shock to it. It could be damaged or its life can be shortened.
3. Do not disassemble or repair the product without permission. Contact the store or customer service center for repair.
4. In case the product is put into water or wet, turn the power off and contact the store or customer service center for repair.
5. Do not use the chemical products for cleaning the product.
6. USB charging cable is to be provided by the manufacturer or one of the approved ones.
7. Keep it in a dry place with room temperature for long term storage.
8. If any medical equipments are used, make sure that the product is well protected from electric wave. If necessary, get the help from medical doctor.
9. The product is compliant with Bluetooth version 2.0 Class 2 specifications. For the information on compatibility, contact the manufacturer of the applicable device or our customer service center.
10. Some countries may prohibit driver from wearing the headset on two ears at the same time during driving. Comply with the laws and regulations related to the use of mobile phone during driving.
11. Do not keep the headset in high volume for a long period of time, It can damage your ear.

### 2) Disclaimer

1. The manufacturer, store and distributor do not take any responsibilities from losses or damages which occur due to accident or user's error.
2. The user's manual is completed based on the current specification of the product.
3. The specification and use of the product is subject to change for performance improvement without prior notice.

## • Glossary

### 1. Bluetooth wireless technology

Bluetooth is a radio technology that connects devices, such as mobile phones and headsets, without wires or cords over a short distance (approx. 33 feet).

For details, visit our website ([www.earomix.com](http://www.earomix.com))

### 2. Bluetooth Profiles

Bluetooth profiles are general behaviors through which Bluetooth enabled devices communicate with other devices. Bluetooth phones support different sets of profiles - most support the headset profile but some support the hands-free profile and others support both profiles. In order to support a certain profile, a phone manufacturer has to implement certain mandatory features within the phone's software.

### 3. Advanced Audio Distribution Profile (A2DP)

A2DP(Advanced Audio Distribution Profile) is a Bluetooth Profile that enables stereo sound. Both the headset and the device it connects to must support A2DP in order to hear A2DP sound in the headset.

### 4. Audio/Video Remote Control Profile (AVRCP)

AVRCP (Audio Video Remote Control Profile) is a Bluetooth profile that enables remote control of the device that the headset is connected to. Both the headset and the device it connects to must support AVRCP in order for AVRCP to work.

HSP (Headset Profile) HFP (Hands-free Profile)	Bluetooth Profile that place and receive calls for a hands-free device.
A2DP (Advanced Audio Distribution Profile) AVRC (Audio/Video Remote Control Profile)	Bluetooth Profile that enables stereo sound

## 5. Pairing

The process of establishing a new relationship between two Bluetooth enabled devices. During this process a link key is exchanged (either before connection establishment was requested or during connecting phase).

## 6. Pairable state

It is the state that the headset is ready to be paired to mobile phones or other Bluetooth enabled devices. (The headset must be paired to the devices you wish to use with before use.)

## 7. Connectable state

It is the state that the headset is in waiting to be connected with pre-paired Bluetooth enabled devices.

## 8. Standby state

When the headset/speakerphone is passively waiting for a call. When you "end" a call, the headset/speakerphone will go into standby state.

## 9. Deep Sleep mode

If the headset (in connectable state) is not connected within 3 minutes, it goes into deep sleep mode in order to minimize the battery consumption.

## • Specification

Bluetooth Compliance	Bluetooth version 2.0
Supported Profiles	Headset and Hands-free, A2DP, AVRCP
Frequency Band	2,402~2,480 MHz
Output Power	Max 0 dBm
Operating Range	Up to 10 m (33 feet)
Talk Time	Up to 7 hours
Music Time	Up to 6 hours
Standby Time	Up to 120 hours
Battery Type	Rechargeable Lithium Polymer (3.7V/250mAh)
Charging Methods	USB charging cable
Charging Time	Approximately 2 hours
Dimensions	∅ 36 (Diameter) * 15 (H) mm
Weight	40g
Operating Temperature	-10 ~ +50°C

\* May vary depending on use environment and operation.

**• FCC Compliance:**

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.

Thank you very much for purchasing Bluetooth mono headset earomix ABT-S100.  
Please visit our website ([www.earomix.com](http://www.earomix.com)) for more details and services.



Gwanghwamun Building 12F.  
211 Sejongno, Jongro-gu, Seoul, Korea (110-730)  
Phone : (82-2) 2127-8340

© 2006 earomix, Asiana IDT Inc. All rights reserved. earomix® is a registered trademark, of Asiana IDT Inc. All other trademarks included herein are the property of their respective owners.