

**PHIATON®**

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**PS 20 BT**

Owner's guide / Guide de l'utilisateur / Guía para el usuario /  
Bedienungsanleitung / 사용자 안내서 / オートナズガイド / 用户指南

English

**PS 20 BT**

WIRELESS STEREO HEADSET

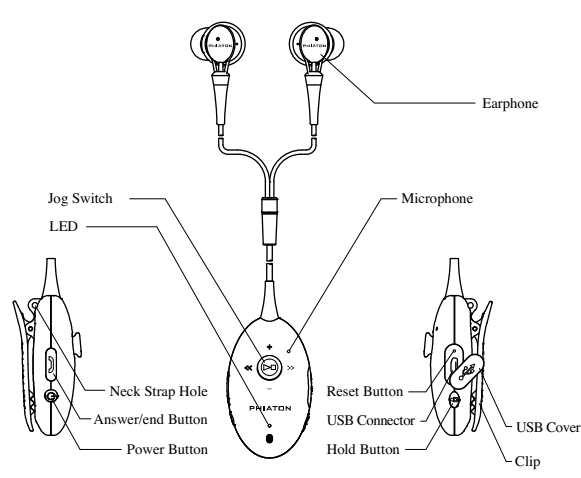
Thank you for purchasing  
PHIATON PS 20 BT.

- Please read all the warnings and notices in the manual.  
- Please read all the directions before use and follow them carefully.  
(Please keep the manual safely for the future use)

**1 Components and Features**

**Components**

- Wireless Stereo Headset
- USB Charge Cable
- Ear Tip (L, M, S, XS)
- Neck Strap
- Carrying Case
- User Manual
- Warranty
- Registration Card



[Figure 1] Features

**2 Charging**

**Make sure that you charge the device before start to use as it is not charged.**

- 1) Open the USB cover on the device and connect the USB Charge Cable.
- 2) Connect the USB Charge Cable to a computer (laptop) or USB adaptor (sold separately: 5V/500mA) and start charging the device.
- The device has a built-in battery and it will begin the charging process when the charge cable is connected.

[Table 1] LED light indication per the charging status

Status	LED
Charging	Flashing Red LED
Fully Charged	Flashing Blue LED

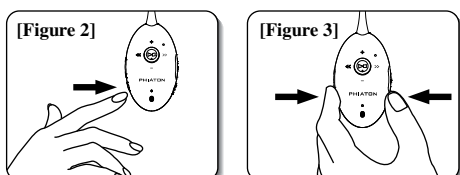
- Calling Time: 6 hrs (max)
- Stand-by Time: about 250 hrs (max)
- Music Playing Time: 6 hrs (max)
- Re-charge Time after full discharge: about 2 hrs

※ It may differ per the using condition.

**3 Power ON/OFF and Headset Pairing Mode Setting**

- 1) Press and hold the power button for 2 seconds to turn the power on. [Figure 2 Note]
- 2) Press and hold the power button for 3 seconds to turn the power off. [Figure 2 Note]
- 3) Press and hold the power button and hold button at the same time for 3 seconds for pairing mode when the device is turned on or off. [Figure 3 Note]

※ Please see '4 Pairing with Bluetooth Devices' for pairing details.



[Table 2] Status per the Power ON/OFF status

Action	LED	Signal Tone
Power ON	Flashing Blue LED once	You will hear 4 'Beep, beep, beep, beep' sounds once from the earphone.
Power OFF	Flashing Red LED 5 times	You will hear 4 'Beep, beep, beep, beep' sounds once from the earphone.

**4 Pairing with Bluetooth Devices**

- 1) Place a Bluetooth device that you wish to pair with PS 20 BT within 1 meter.
- Wear your earphone to see LED and hear signal tone to recognize the status changes.
- 2) Turn on the device and press and hold the power button and hold button for 3 seconds for pairing mode. [Figure 3 Note]
- 3) Read the manual of the Bluetooth device that you wish to connect to search/select PS 20 BT. (If the device requires a PIN CODE or password, enter '0000')
- 4) Play a music or try to make a call from PS 20 BT to check the connection.

[Table 3] Status per the 'Pairing' procedure

Action	LED	Signal Tone
Power ON and before entering Pairing Mode	Flashing Blue LED twice for 6 second interval	
Pairing Mode	Flashing Blue and Red LED	You will hear one 'Beep, beep' sound from the earphone.
Pairing Successful	Flashing Violet LED twice	You will hear one 'Beep, beep' sound from the earphone.

**4 Pairing with Bluetooth Devices**

**5) Setting Multi-Point**

- (Multi-Point: It can pair with two devices at once and saving the pairing history up to 8 devices)
- Press the jog switch to '+' direction for 1 second in pairing mode to activate the Multi-Point function. (Pressing the power button and hold button at the same time in Multi-Point activated status will enter the Pairing Mode with another Bluetooth device)
  - Press the jog switch to '-' direction for 1 second in pairing mode to deactivate the Multi-Point function.

[Table 4] Multi-Point Status

Status	Signal Tone
Multi-Point Activated	You will hear one 'Beep, beep' sound from the earphone.
Multi-Point Deactivated	You will hear one 'Beep, beep' sound from the earphone.

**6) Reconnecting to a disconnected device**

- When previously connected Bluetooth device is disconnected, turn PS 20 BT and the Bluetooth device off and on to connect automatically.
- (If not connected automatically, press the answer/end button on PS 20 BT to connect with the Bluetooth device)

**4 Pairing with Bluetooth Devices**

**7) Things to check when pairing**

- Check if the Bluetooth is activated on the device.
- PS 20 BT will deactivate the pairing mode and turn off automatically when pairing is not successful within 5 minutes.
- It is recommended to connect with Headset Stereo Profile when selecting the connect profile. (Some functions may be limited when connected with Hands Free Profile (HFP))

**5 Wearing Headset**

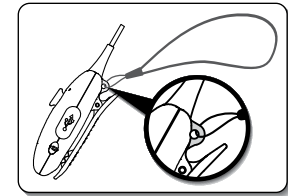
- 1) Check the L/R marks on the earphone and wear it correctly.
- (It is recommended to wear the right size ear tip for performance improvement)



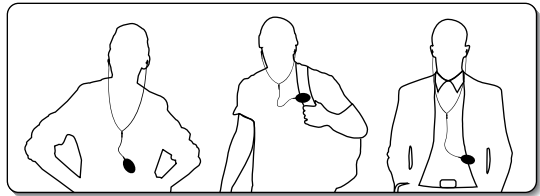
[Figure 4] Wearing Headset

**5 Wearing Headset**

- 2) Use the clip or neck strap for your conveniences.



[Figure 5] Neck strap connections



[Figure 6] Worn look

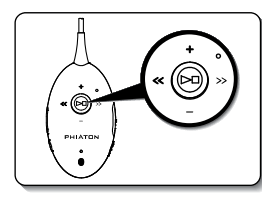
**6 Using the Product – Listening to Music**

- ※ Before starting - Make sure if PS 20 BT is turned on.
- Make sure if PS 20 BT is paired with the Bluetooth device

**6 Using the Product – Listening to Music**

**1) Press the jog switch on PS 20 BT.**

- You will be able to hear the music on the Bluetooth device via PS 20 BT.
- Press jog switch short while playing music will pause the music.
- Press jog switch for 1 second while playing music will stop the music. (The stop function may be limited per the accessing device)



[Figure 7] Jog switch

**2) How to use jog switch while playing music.**

- Press jog switch to '+' / '-' direction to control volume.
- Press and hold jog switch to '+' / '-' direction to control volume faster.
- Press jog switch to '<<' / '>>' direction to play previous/next song.
- Press and hold jog switch to '<<' / '>>' direction for rewind/fast forward.

[Table 5] LED status while playing music

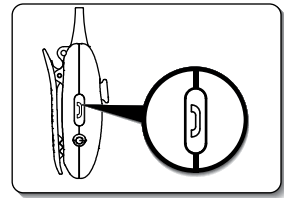
Action	LED
Playing Music	Blue LED flashes once every 6 seconds LED slowly goes bright and dim.

**3) You can listen to music via PS 20 BT by operating the Bluetooth device.**

**7 Using the Product – Answering / Calling While Playing Music**

**1) Answering while playing music**

- Press the Answer/End button when you hear incoming call on PS 20 BT. (Music will be stopped and call will be connected and music will resume when call is ended)
- Press the Answer/End button when you are finished with the call.



[Figure 8] Answer/End button

**2) Making a call while playing music**

- Press and hold the Answer/End button form 1 second while music is playing and it will stop music and redial the last number.

**8 Using the Product – Telephone Functions**

**1) Answering a call**

- When you hear an incoming call from PS 20 BT, press the Answer/End button.
- You will be able to talk from PS 20 BT.
- (Volume adjustment: To control the volume, press the jog switch to '+' / '-' direction)

**8 Using the Product – Telephone Functions**

**2) End a call**

- When you want to hang up, press the Answer/End button shortly.

**3) Rejecting an incoming call**

- When you hear an incoming call from PS 20 BT, press and hold jog switch to '-' direction for 1 second.

**4) Mute and Unmute**

- press and hold jog switch to '-' direction for 1 second during the call.

**5) Making a call**

- Press and hold the Answer/End button on PS 20 BT. (It will redial the last number)
- Making a call to a phone number
- Dial a phone number from the Bluetooth cellular phone connected with PS 20 BT.

**6) Call waiting**

- When there's another incoming call while calling.
- Press and hold the Answer/End button for 1 second to hold the first call and connect to the second incoming call.
- Press the Answer/End button short to hang up the first call and connect to the second incoming call.

**8 Using the Product – Telephone Functions**

**7) Voice dialing (Only from the voice dial function available cellular phones)**

- Press the Answer/End button while stand-by and say the name when you hear a beep sound.

**8) Transfer a call**

- To transfer a call to PS 20 BT or to the cellular phone while calling, press and hold the jog switch to '+' direction for 1 second.

[Table 6] LED status for Telephone Function

Action	LED
Receiving / Making a call	Violet LED flashes once every 1.5 second
Calling	Blue LED slowly goes bright and dim in 6 seconds
When 2 calls are connected	Violet LED slowly goes bright and dim in 6 seconds

**9 Using the Product – Hold Function and Others**

**1) Hold Function (When hold function is activated, all buttons will not work)**

- Turn PS 20 BT on and press and hold the Hold button to activate/deactivate the Hold function
- When the Hold function is activated and there's an incoming call, press Answer/End button to talk without deactivating the Hold function.

**2) Auto-Hold**

- The Auto-Hold will be activated when PS 20 BT is not operated for 5 minutes after pairing.

[Table 7] LED status on Hold Function

Action	LED	Signal Tone
Hold Function On	Violet LED flashes twice and all LED turns to violet	You will hear one 'Beep, beep' sound from the earphone.
Hold Function Off	Violet LED flashes twice.	You will hear one 'Beep, beep' sound from the earphone.

**9 Using the Product – Hold Function and Others**

**2) Turning LED function on and off**

- Press and hold the Answer/End button and jog switch for 1 second to turn LED function on and off.

**3) Battery capacity check**

- Press the Power button shortly two time to indicate battery capacity on LED.

[Table 8] LED status for Battery Capacity Check

Battery Capacity	LED
80% or higher	Blue LED flashes for 1 second
80% ~ 30%	Violet LED flashes for 1 second
30% or lower	Red LED flashes for 1 second
Low Battery warning	All LED flashes in Red

**10 Specifications**

**1) PS 20 BT Controller Specifications**

- Communication Network : Bluetooth standard Ver.3.0
- Communication Output Power : Power Class2
- Operating Range : Within 10 m
- Normal charging time : 2 hrs
- Calling time : 6 hrs
- Music play time : 6 hrs
- Stand-by time : 250 hrs
- Operating Frequency : 2.4 GHz (2.402 GHz ~ 2.480 GHz)
- Bluetooth Profile Support : A2DP, AVRCP, HFP, HSP
- Audio Codec Support : SBC
- Battery : lithium polymer DC 3.7 V / 150 mAh
- Microphone Frequency Response : 10 ~ 4,000 Hz
- Microphone Sensitivity : -40 dB
- Support : Echo cancellation & noise reduction function
- Operating Temperature Range : 5 ~ 45 degrees C
- Dimensions : 51 x 30 x 17 (mm)
- Weight : 16 g (0.56 oz)

**2) PS 20 BT Earphones Specifications**

- Type : Dynamic
- Driver Diameter : 14.3 mm
- Sensitivity : 110 dB/mW
- Frequency Response : 15 ~ 22,000 Hz
- Impedance : 32 ohms
- Cable : 0.6 m, 3-type
- Weight : 7.5 g (0.26 oz)

**3) Accessories Furnished**

- Neck strap, USB charging cable,
- 4 sizes of ear tips(XS/S/M/L), Carrying case,
- Warranty card, Registration card, Owner's guide

※ To improve the performance of the product specifications are subject to change without notice.

**11 Safety and General Information**

- 1) Use standard USB charge cable and charge adaptor.
- 2) Use the right size ear tips.
- 3) Lower the volume before listening music or audio to prevent eardrum damage from loud sound.
- 4) Adjust the volume in public places to not to disturb other people.
- 5) Do not place the product at high temperature place and do not heat it.
- 6) Keep the product away from water and do not let it get soaked.
- 7) Do not open disassemble the cover or apply shocks.
- 8) Do not allow children or animals chew on the product.
- 9) Do not pull the electric cord or touch the electric plug with wet hands.
- 10) The user must not disassemble or modify or repair the product.
- 11) Do not use the product near the microwave oven or wireless LAN.
- 12) Do not use the product aside from its original use.
- 13) Please turn the product off and store when not using the product.
- 14) Please use the enclosed pouch to store the product.
- 15) Please use a clean cloth to clean the earphone. (Do not use solvent)
- 16) Remove the ear tips from the earphone and wash them with warm water and dry completely and check for any obstacles before put them back on.
- 17) You can purchase additional ear tips from the Phiaton dealers.
- 18) Please prevent using the product while driving a vehicle as the alarm or warnings sounds cannot be heard.
- 19) Dispose old or damaged battery according to local regulations.
- 20) You can also send batteries to Phiaton Corp., for recycle. Please visit the 'Contact' page on www.phiaton.com for details.
- 21) Listening to loud music for long time may harm your ears.
- 22) When the product got wet, please do not turn it on, but use a dry towel to dry it and call service center for help. (Please visit the 'Contact' page on www.phiaton.com for service centers)

**12 Troubleshooting**

Cause	Action
Cannot turn the power on	• Please charge PS 20 BT. If power cannot be turned on after charging, please contact the service center.
Cannot charge the PS 20 BT	• Please check the connection of USB charge cable and PS 20 BT. • Please check if computer is turned on or connected properly. • When using a separate USB AC adaptor, please make sure it is connected properly.
Cannot establish pairing	• Please check if the connecting device is turned on. • Please check if the Bluetooth function of the connecting device is activated. • Please check the distances between PS 20 BT and the connecting device. (Pair can be made within 1 meter). • Please make sure if the Bluetooth profile is set properly.
Cannot hear music	• Please check if PS 20 BT and the device are turned on. • Please check if the device is playing music. • Please check the volume on PS 20 BT and Bluetooth device.
Noise or poor turn it	• Please check if there are any electric device using 2.4GHz frequency nearby. • Please make sure PS 20 BT and the connecting device is close enough. (Usable range is within 10 meters)

**12 Troubleshooting**

Cause	Action
Poor music sound quality	• If the PS 20 BT connecting device is accessing HSP, please change it to A2DP.
LED does not work	• Please activate if LED is deactivated. (You can activate LED by pressing the Answer/End button and jog switch for 1 second)
Cannot hear other person's voice when calling	• Please make sure the PS 20 BT connecting device is turned on. • Connect Bluetooth with HFP or HSP. • Please check the volume on the PS 20 BT connecting device. • Please check the volume on the connected cellular phone.
PS 20 BT stops or unable to operate	• Use a small pin to press the Reset button on the right side of USB connector. • Power will be turned off when Reset button is pressed. • The pairing history will not be deleted after Reset.

**13 FCC compliance Information**

FCC ID : V2R-PS20BT  
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 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 TO USER: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.