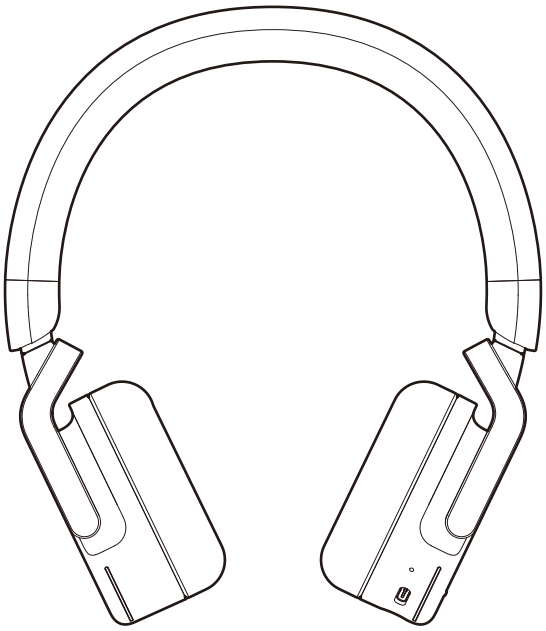
Instruction Manual



Wireless DJ headphones

HDJ-F9

alphatheta.com/support/

For FAQ and other support information for this product, visit the website above.

AlphaTheta

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Introduction

How to read this manual

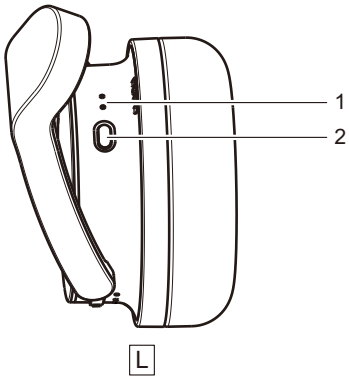
- Thank you for purchasing this AlphaTheta product. Be sure to read this manual, the Quick Start Guide and the Precautions for Use which are also included with this product. These documents include important information that you should understand before using the product.
- The specifications and design of this product are subject to change without notice.

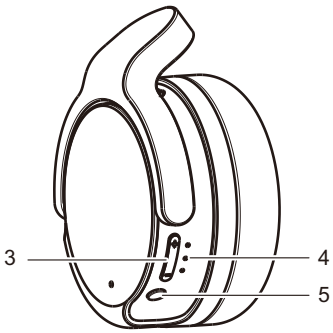
What’s in the box

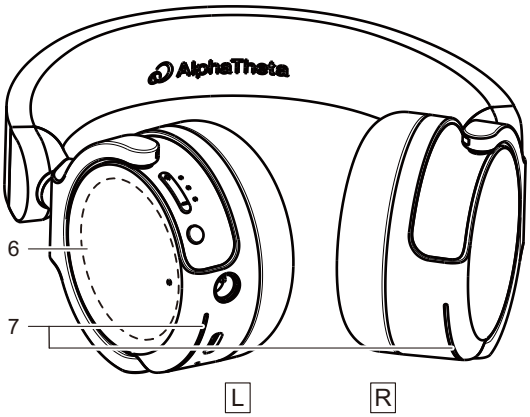
- Headphones × 1
- 1.2 m coiled cable (about 3.0 m when extended) × 1
- ø6.3 mm stereo plug adapter (threaded type) × 1
- USB charging cable (USB Type-C to USB Type-C) 0.5 m × 1
- Carry pouch × 1
- Quick Start Guide × 1
- Precautions for Use × 1
- Warranty for use in Japan (printed in the Precautions for Use)
  Warranty certificates for Europe and North America are included in the box.

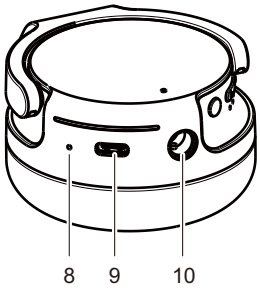
Operating Methods

Part names









1. **Wireless connection mode LED**

   Shows the wireless connection status.

2. **Wireless connection mode button**

   Switches between **Bluetooth**®/MD mode and SonicLink mode.

3. **Volume buttons**

4. **Battery level indicator LED**

   Shows the remaining battery level.

5. **Multifunction button**

   Use for the following operations.

   - Turning the power on/off
   - Pairing with wireless devices
   - Play/pause/skip to the next track/back to the beginning of the current track
   - Phone calls

6. **SonicLink touch pairing area** NFC

   You can connect via SonicLink with just a touch to DJ devices that support touch pairing.

7. **Status LED**

   Lights up and blinks in different colors to show power on/off and the wireless connection status.

8. **Microphone**

9. **Charging terminal**

   Connect the supplied USB charging cable (USB Type-C) to charge.

10. **Input terminal**

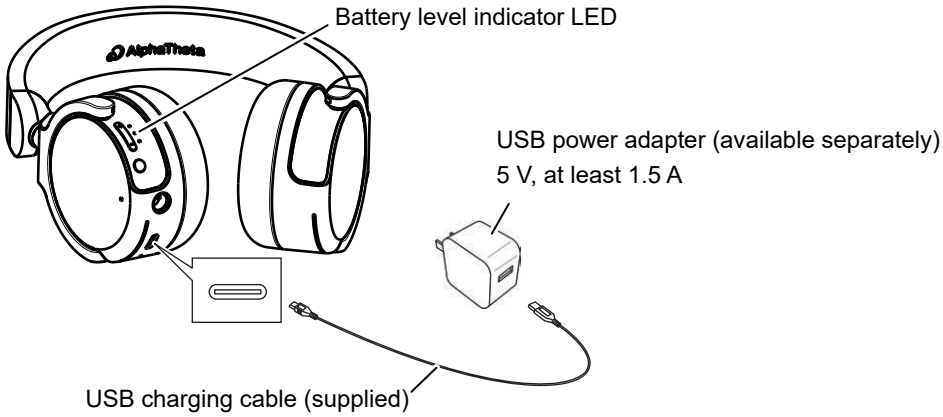
    Connect the supplied coiled cable.

Charging

Be sure to charge the product before using it for the first time.

1 Connect the headphones to a USB power adapter (available separately) with the supplied USB charging cable.

- The battery level indicator LED blinks or lights up in white.
- The battery level indicator LED blinks or lights up in white while charging and turns off when charging is complete.
- Use a 5 V USB power adapter with an output current of at least 1.5 A.
- Fully charging from empty takes about 2.5 hours.



Note

- Bluetooth and SonicLink can’t be used during charging.
- The recommended charging temperature range is 10 °C to 35 °C (+50 °F to +95 °F).
- The headphones can’t be turned on while charging.
- If you start charging while the power is on, the headphones automatically turn off.
- Do not use any cable other than the supplied USB charging cable.

Cautions regarding the USB charging cable

- Do not use the charging cable if the connector has been twisted.
- When connecting the charging cable, check the connection direction and insert the connector straight forward.
- Do not allow fluids (e.g., sweat or water) or foreign matter (dust or small items of debris, metal, etc.) to stick to the connector.

Turning the headphones power on/off

Turning the power on

1 Press the multifunction button for about 2 seconds.

Keep holding the button down to enter Pairing mode.

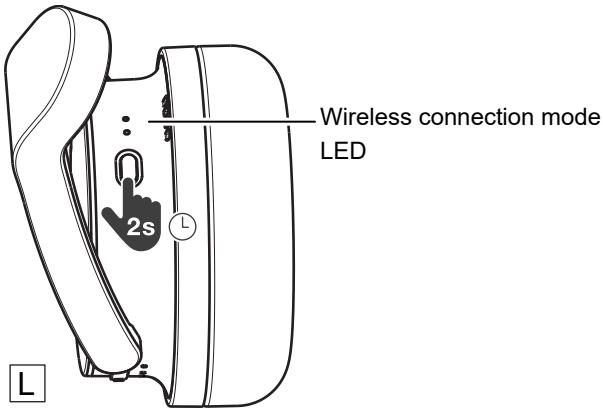
Turning the power off

1 Press the multifunction button for about 3 seconds while the power is on.

Switching between Bluetooth mode and SonicLink mode

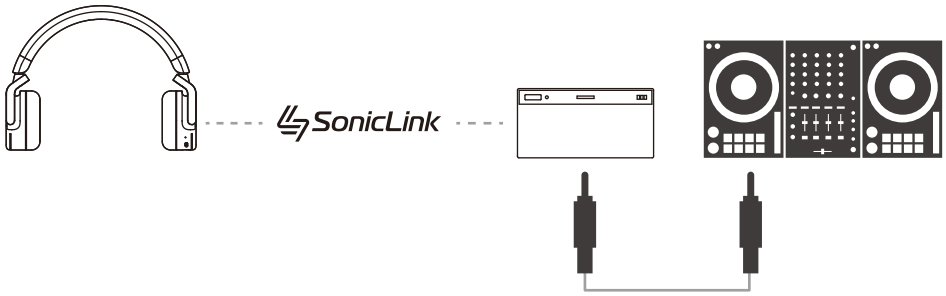
While the power is on, press and hold the wireless connection mode button for at least 2 seconds to switch between Bluetooth mode and SonicLink mode.

- The wireless connection mode LED and status LED light up in blue in Bluetooth mode and white in SonicLink mode.
- The factory default setting is Bluetooth mode.



Connecting via SonicLink

Connecting to the HP-TX01 transmitter (sold separately)



For details on how to use the transmitter, check the manual of the HDJ-F10/HP-TX01 transmitter.

1 Connect the transmitter to the headphones jack of a DJ device using the straight cable supplied with the transmitter.

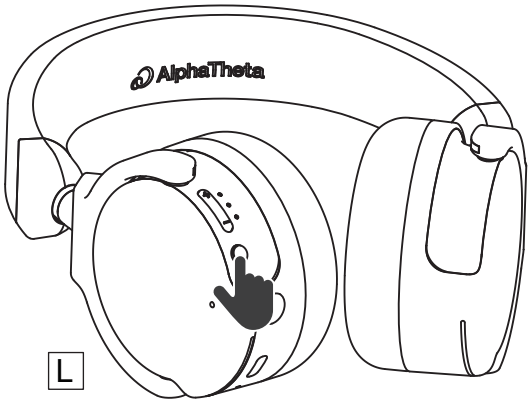
2 Make sure the headphones are within about 1 m of the transmitter.

3 Switch the wireless connection mode to SonicLink mode.

⇨ Switching between Bluetooth mode and SonicLink mode (page 7)

4 With the power turned off, press and hold the multifunction button on the headphones until the wireless connection mode LED blinks in white.

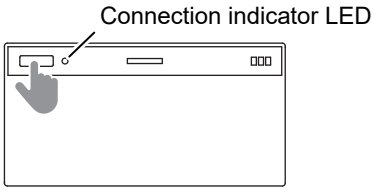
When pairing a device: About 5 seconds



- When the headphones enter Pairing mode, the wireless connection mode LED blinks in white.
- Make sure the power is turned off before following the steps above.

5 With the power turned off, press and hold the pairing button on the transmitter until the connection indicator LED blinks in white.

When pairing a device: About 5 seconds



- When the transmitter enters Pairing mode, the connection indicator LED blinks in white.

Connecting to a DJ device that supports touch pairing

With DJ devices that support the SonicLink touch pairing function, you can connect by simply touching the headphones SonicLink touch pairing area to the DJ device.

Please refer to the manual for the DJ device for information on its touch area and how to use it.

- If the headphones' power is off, touch the pairing area to the DJ device until the headphones turn on.

Connecting to a DJ device equipped with SonicLink

Please refer to the manual for the DJ device for information on how to use it.

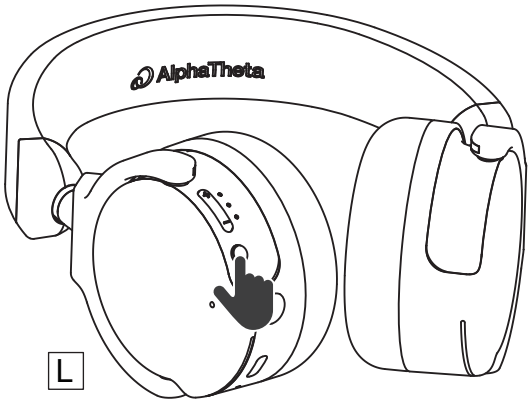
1 Place the headphones within 1 m of the connected DJ device.

2 Switch the wireless connection mode to SonicLink mode.

⇨ Switching between Bluetooth mode and SonicLink mode (page 7)

3 With the power turned off, press and hold the multifunction button on the headphones until the wireless connection mode LED blinks in white.

When pairing a device: About 5 seconds



- When the headphones enter Pairing mode, the wireless connection mode LED blinks in white.
- Make sure the power is turned off before following the steps above.

4 Turn on the SonicLink function on the DJ device.

5 Press and hold the SonicLink pairing button on the DJ device.

The device enters Pairing mode.

6 On the headphones, check the connection to the paired DJ device.

- The wireless connection mode LED blinks in white until connection with the device is complete.
- When the wireless connection mode LED lights up in white, pairing is complete.

Note

- If the headphones power is turned on when the last used mode was SonicLink mode, or if the headphones wireless connection mode button is used to enter SonicLink mode when the headphones power is turned on, the headphones will try to reconnect with the transmitter or DJ device they were last connected to. If the headphones don’t connect to a device within 10 seconds, they automatically enter Pairing mode.
- The headphones power will turn off if they don’t connect to a device within 5 minutes. If this happens, restart the pairing process.
- If sound cuts out or unwanted noise occurs when using 2 or more pairs of headphones, try increasing the distance between the pairs of headphones and between the transmitters.

- The volume buttons on the headphones are disabled when the headphones are connected via SonicLink. Adjust the volume on the playback device.

Connecting via Bluetooth

Preparations

- Bring the Bluetooth device within about 1 m of the headphones.
- If necessary, read the user manual of the device you want to connect for instructions on how to use it.

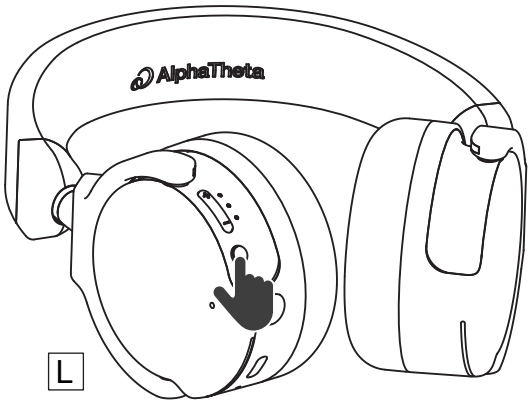
Connecting the headphones with a Bluetooth device

1 Switch the wireless connection mode to Bluetooth mode.

⇨ Switching between Bluetooth mode and SonicLink mode (page 7)

2 With the power turned off, press and hold the multifunction button on the headphones until the wireless connection mode LED blinks in blue.

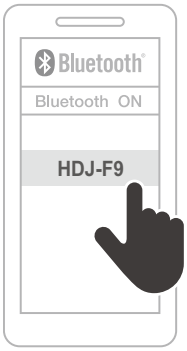
When pairing a device for the first time, hold for about 2 seconds
When pairing the second or subsequent device, hold for about 5 seconds



- When the headphones enter Pairing mode, the wireless connection mode LED blinks in blue.
- Make sure the power is turned off before following the steps above.

3 Turn on the Bluetooth device and activate it.

4 From the Bluetooth menu on the Bluetooth device, select the device name “HDJ-F9”.



- In some cases, the MAC address “□□□□□□” appears before “HDJ-F9” is displayed. (“□” is a value unique to that device.)
- If a passkey entry is requested, enter the passkey of the headphones “0000” (4 zeros).

5 On the headphones, check the connection to the paired Bluetooth device.

- The wireless connection mode LED blinks in blue until connection with the device is complete.
- When the wireless connection mode LED lights up in blue, pairing is complete.

Connecting via Google Fast Pair

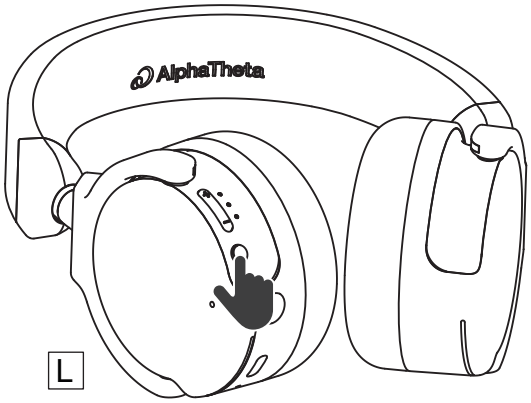
Android devices running OS 6.0 or later can connect to the headphones via Google Fast Pair.

1 Switch the wireless connection mode to Bluetooth mode.

⇨ Switching between Bluetooth mode and SonicLink mode (page 7)

2 With the power turned off, press and hold the multifunction button on the headphones until the wireless connection mode LED blinks in blue.

When pairing a device for the first time, hold for about 2 seconds
When pairing the second or subsequent device, hold for about 5 seconds



- When the headphones enter Pairing mode, the wireless connection mode LED blinks in blue.
- Make sure the power is turned off before following the steps above.

3 Hold your headphones near your Android device and tap the notification that appears to complete pairing.

- Ensure that Bluetooth and location services are enabled on your Android device.

4 On the headphones, check the connection to the paired Bluetooth device.

- The wireless connection mode LED blinks in blue until connection with the device is complete.
- When the wireless connection mode LED lights up in blue, pairing is complete.

Note

- If the headphones power is turned on when the last used mode was Bluetooth mode, or if the headphones wireless connection mode button is used to enter Bluetooth mode when the headphones power is turned on, the headphones will try to reconnect with the Bluetooth device they were last connected to. If the headphones don’t connect to a device within 10 seconds, they automatically enter Pairing mode.
- The headphones power will turn off if they don't connect to a device within 5 minutes. If this happens, restart the pairing process.
- Up to 2 Bluetooth devices can be connected to the headphones at the same time.

- The headphones can pair with up to 8 Bluetooth devices. After 8 devices have been paired, the oldest pairing will be overwritten every time you pair a new one. You'll need to pair those devices again if you want to use them.
- If the headphones are near a Bluetooth device they were previously connected to, they may automatically connect to it when you turn them on. To connect to a different Bluetooth device, turn off the Bluetooth function of the connected device or turn off the headphones and pair them again.

Listening to music

Listening to music via SonicLink

You can use this low-latency wireless function to listen to music.

1 Connect the headphones with a transmitter or a DJ device equipped with SonicLink.

⇨ Connecting to the HP-TX01 transmitter (sold separately) (page 8)
⇨ Connecting to a DJ device equipped with SonicLink (page 10)

2 Play music on your DJ device that's either connected to a transmitter or connected directly to the headphones via SonicLink, as described in step 1.

- When the headphones are fully charged, playback time is about 7 hours. (The volume, input music, etc., may vary depending on the conditions of use.)

Note

- Sound may leak out of the headphones at certain volume levels.
- Sound may be distorted when you increase the volume to the level that the input indicator LED on the transmitter lights up in red. If this happens, lower the volume of the playback device until the music sounds clear.

Listening to music via Bluetooth

If the Bluetooth device is compatible with both A2DP and AVRCP Bluetooth profiles, you can use the remote control on the headphones to perform actions such as starting music playback and skipping tracks.

- A2DP (Advanced Audio Distribution Profile): Transfers sound to the headphones.
- AVRCP (Audio/Video Remote Control Profile): Allows remote control operation from the headphones.

1 Connect the Bluetooth device to the headphones.

⇨ Connecting the headphones with a Bluetooth device (page 12)

2 Choose and play the music or video you want to listen to from the Bluetooth device.

- The sound from the music or video plays back through the headphones.
- When the headphones are fully charged, playback time is about 13 hours. (The volume, input music, etc., may vary depending on the conditions of use.)

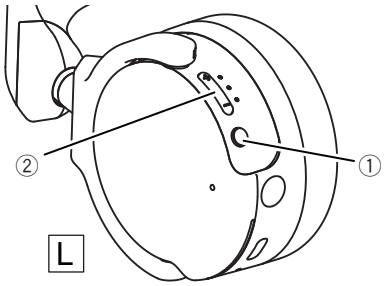
Note

- Sound may leak out of the headphones at certain volume levels.
- Increasing the volume of the headphones to nearly maximum may cause music, etc. to sound distorted. If this happens, lower the volume until the music sounds clear.

❖ Remote control operation

Press the buttons on the headphones to operate the Bluetooth device remotely.

- Depending on the Bluetooth device, some functions may not work when the headphone buttons are pressed, or they may work differently from the descriptions below.



Button	Operation	Action
(1) Multifunction button	Press once	Play/pause
	Press twice	Skip to next track
	Press 3 times	Back to the beginning of the current track
(2) Volume button	+ short press	Increase the volume by one step
	+ long press	Increase the volume continuously
	- short press	Decrease the volume by one step
	- long press	Decrease the volume continuously

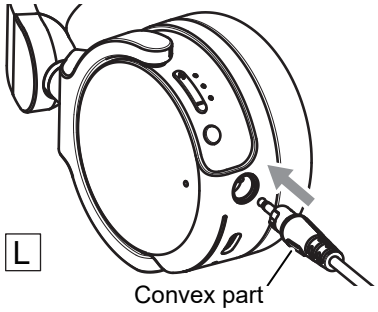
Note

The volume can be adjusted in 15 steps. After the maximum or minimum level is reached, an electronic tone sounds if the volume button is pressed.

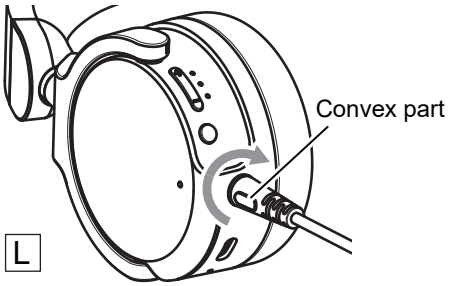
Listening to music via the supplied coiled cable

❖ To attach the coiled cable

1 **Hold the convex part of the cable plug at the angle shown in the diagram below and insert the cable plug.**

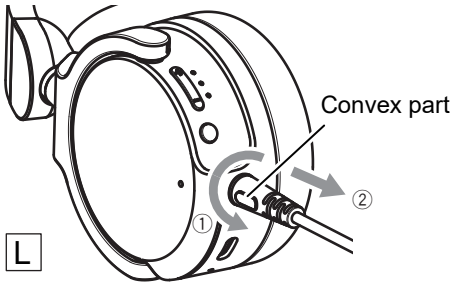


2 **Rotate the convex part of the cable plug about 45 degrees clockwise to the position shown in the diagram to lock the cable plug.**



❖ To detach the coiled cable

1 Rotate the convex part of the cable plug about 45 degrees counterclockwise, then pull out the cable plug.



Note

- Bluetooth and SonicLink won’t turn on when the headphones are connected with the coiled cable.
- The plug on the headphone end of the cable has a structure to enable smooth insertion and removal, and secure locking in place to reduce the risk of accidental disconnection during DJ performances. This product is compatible with the cables supplied with the HDJ-CX, HDJ-S7, and HDJ-F10 headphones as they have the same plug structure.
- If the coiled cable is attached while a Bluetooth connection is active, the Bluetooth function on the headphones turns off.
- If the coiled cable is attached while a SonicLink connection is active, the SonicLink function on the headphones turns off.

Phone calls

If your phone (cell phone, smartphone, etc.) is compatible with HSP or HFP Bluetooth profiles, you can use the headphones for phone calls.

- HSP (Headset Profile): You can receive mono sound in the headphones and talk back via the microphone.
- HFP (Hands-Free Profile): Includes communications transmission and receiving functionality in addition to HSP functions.
- Connect a Bluetooth-compatible phone to the headphones.
  ⇨ Connecting via Bluetooth (page 12)

Receiving an incoming call

1 Press the multifunction button on the headphones once to receive a call.

(HFP only) To refuse a call, press and hold the multifunction button for at least 2 seconds.

Making a call

1 Make a call on a Bluetooth-compatible phone.

- Read the user manual of the Bluetooth-compatible phone.
- To cancel the call, press the multifunction button once. The headphones emit an electronic tone.

During a call

You can also adjust the volume while on a call.

⇨ Remote control operation (page 17)

- To end the call, press the multifunction button on the headphones once.

Note

- The headphones only support receiving normal phone calls. It is not compatible with smartphone or PC/Mac calling applications.
- Operation of hands-free settings, etc., on the Bluetooth-compatible phone may be necessary.
- Depending on the Bluetooth-compatible phone, the ringtones and ring-back tones may be heard from the headphones.
- When using the headphones in locations where there are high levels of sound from the surrounding area, or in windy locations such as outdoors, conversations may be difficult to hear. In such cases, move to a different location or switch from using the headphones to using the phone itself.
- The call function is not supported while the supplied cable is connected.

Using the voice assistant function

You can use the voice assistant function of the connected device (Siri or Google Assistant) through the microphone on the headphones.

- The voice assistant function can only be used when connected via Bluetooth.
- The connected device must be compatible with voice assistant operation.

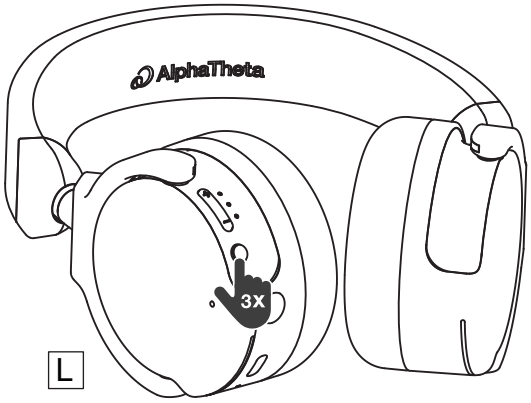
Using the voice assistant function (Siri or Google Assistant)

1 In the dedicated app HEADPHONES CONNECT, set the operation when pressing the multifunction button 3 times to [Activate/Stop Voice Assistant].

⇨ Using HEADPHONES CONNECT (page 27)

2 Press the multifunction button 3 times.

The voice assistant function activates.



Note

- There is no voice guidance or LED on the headphones to indicate whether the voice assistant function is activated or deactivated. Check the screen of your connected device supporting the voice assistant function.

Other functions

Reset

If you find that you can’t use the headphones, reset them.

1 Press the multifunction button and + volume button simultaneously for at least 5 seconds while the power is on.

All previous operations will be reset. (Information on paired devices will also be deleted.)
After resetting, the power is turned off.

Wireless connection mode LED

Blinks specific sequences and colors to indicate the wireless connection status of the headphones.

Action	LED pattern	
Power on	Lights up for about 1.5 seconds	
When not connected (waiting for connection)	Blinks slowly	…
Pairing mode (searching for device)	Blinks quickly	…
Connecting	Lights up	…
Paired device is being reset	Blinks quickly (about 2 seconds)	

- Lights up in blue in Bluetooth mode and white in SonicLink mode.
- Always unlit when the cable is connected to the input terminal.

Status LED

Blinks in specific sequences and colors to show the wireless connection status of the headphones.

Action	LED pattern	
Power on	Lights up for about 1.5 seconds	
When not connected (waiting for connection)	Scrolling light (one-way)	→ → → → …
Pairing mode (searching for device)	Scrolling light (two-way)	→ → → → …
Connecting	Lights up	…
Connecting (ECO mode)	Lights up intermittently	…
Paired device is being reset	Blinks quickly for about 2 seconds	

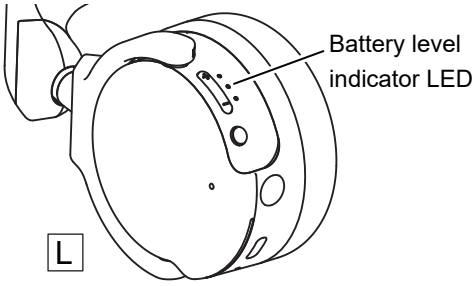
- When not connecting, lights up in blue in Bluetooth mode and white in SonicLink mode.
- Using the dedicated app HEADPHONES CONNECT, you can adjust the color and brightness of the connection indicator, turn it on/off, and set ECO mode.
  ⇨ Using HEADPHONES CONNECT (page 27)

Battery level indicator LED display

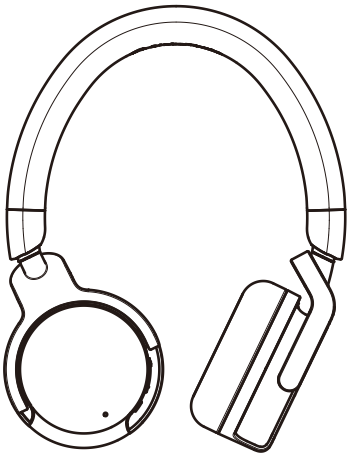
The blinking state of the LED indicates power on/off and the remaining battery level.

Battery level	LED pattern	
100% to 70%	3 light	□ □ □
70% to 30%	2 light	□ □ ■
30% to 10%	1 lights	□ ■ ■
10% to 0%	1 blinks	☐ ■ ■
Charging 0% to 30%	1 blinks	☐ ■ ■
Charging 30% to 70%	1 lights, 1 blinks	□ ☐ ■
Charging 70% to 99%	2 light, 1 blinks	□ □ ☐
Charging completes 100%	3 light (3 seconds) → Turns off	□ □ □ → ■ ■ ■

- When charging completes, the LED turns off.



Swivel mechanism



This product is equipped with a swivel mechanism that enables various styles of monitoring. Before using the product, check its operation direction. Turning the headphones forcefully in the wrong direction may result in damage to the product.

Using HEADPHONES CONNECT

You can use HEADPHONES CONNECT, a dedicated utility app for AlphaTheta wireless headphones, to control the headphones.

Installing HEADPHONES CONNECT

❖ Installation procedure (iOS or iPadOS)

1 Open the App Store using the following QR code or via the URL.

https://apps.apple.com/app/id6744147576

2 Tap [Get] to install HEADPHONES CONNECT.

When installation finishes, the button changes to [Open]. Tap to start HEADPHONES CONNECT.

❖ Installation procedure (Android)

1 Open Google Play using the following QR code or via the URL.

https://play.google.com/store/apps/details?id=com.alphatheta.AppForHeadphones

2 Tap [Install] to install HEADPHONES CONNECT.

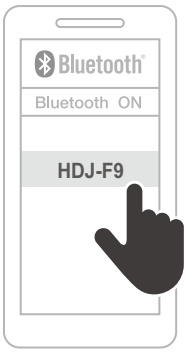
When installation finishes, the button changes to [Open]. Tap to start HEADPHONES CONNECT.

Starting HEADPHONES CONNECT

1 Tap the HEADPHONES CONNECT icon.

HEADPHONES CONNECT

- HEADPHONES CONNECT can only be used when the headphones connection mode is set to Bluetooth mode. It can't be used with the connection mode set to SonicLink mode.
- Read the content of the software end user license agreement carefully, then tap [Agree and Proceed].
- Register for an AlphaTheta account and log in. If you already have an account, go to the login screen and enter your email address and password.
- After tapping [Allow Bluetooth access] on the "Bluetooth access is required" screen, tap [Allow] on the pop-up that appears.
- From the Bluetooth menu of your mobile device, select the device name "HDJ-F9" and perform pairing.

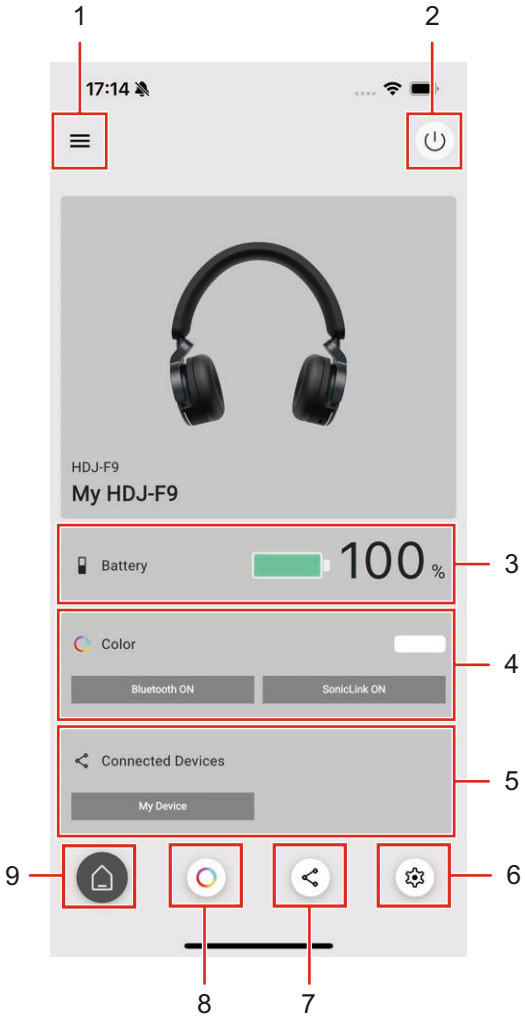


2 Connect.

After the headphones are detected, tap the [Connection complete] button.

Using HEADPHONES CONNECT

❖ Home screen



1. **Side menu display**

   Displays account information, connected headphones, and other HEADPHONES CONNECT-related information.

2. **Power off**

   Turns the headphones power off.

3. **Battery level indicator**

4. **Status LED status indicator**

   Displays the color currently set for the headphones status LED, and the lighting mode selection status.

5. **Device indicator**

   Displays the currently connected Bluetooth device.

6. **Headphones setting screen**

   You can edit headphone names, search for headphones, activate or deactivate the auto power off function, headphone button settings, and check the firmware version. Other support features include product information and tips for using the headphones.

7. **Connected device screen**

   The headphones can save pairing information for up to 8 Bluetooth devices, and you can check the pairing history on this screen. After 8 devices have been paired, the oldest pairing will be overwritten every time you pair a new one. Up to 2 devices can be connected at the same time using multipoint connection, and this connection is established with 2 devices that have their slide switch set to on. In Edit mode, you can cancel pairings with Bluetooth devices.

8. **Status LED setting screen**

   You can adjust the color and brightness of the status LED to suit your preferences. You can choose from preset colors, or set a customized color. You can set the status LED to on/off for each of the Bluetooth and SonicLink connection modes, as well as the energy-saving ECO mode which lights up periodically.

   - HEADPHONESS CONNET can only be used when the headphones are connected via Bluetooth. However, LED on/off and ECO mode can be set in advance for when the headphones are connected via SonicLink.
   - In specific states, such as when the power is turned on, the device is pairing, or when connection has failed, the color will be fixed to blue/white/red, etc.

9. **Home screen**

Troubleshooting

- As operation of Bluetooth devices differs according to the device, please read the user manual of your Bluetooth device for more information.
- If you can't resolve the problem after reading the device's user manual, reset the headphones.
  ⇨ Reset (page 23)
- If they do not function normally even after following the steps below, read the Precautions for Use and consult an authorized service company or your dealer.

General

❖ The power doesn't turn on.

- Charge the headphones.
- Note that the power will not turn on when the cable is connected to the input terminal of the headphones.

❖ The product won't charge.

- Check that the headphones and USB power adapter are properly connected with the supplied USB charging cable.
- Check that the USB power adapter is securely inserted into an AC outlet.

❖ No sound is output when the cable is connected.

- Check that the supplied cable is properly connected to the headphones and playback device.

When you want to use SonicLink

❖ Can’t pair via Bluetooth.

- Bring the headphones and the transmitter or the device you want to pair close together before pairing.

❖ Can’t connect with SonicLink.

- Check that the connection mode is set to SonicLink mode (wireless connection mode LED lights up in white).
- Check that the headphones and the transmitter are both turned on.
- Check that your DJ device with SonicLink is properly connected before continuing.

❖ No sound is output.

- Check that the headphones and the transmitter are both turned on.
- Check that the supplied cable is connected securely to the transmitter and the playback device.
- Adjust the volume of the playback device until the transmitter input indicator LED lights up in green.

❖ The volume can’t be adjusted.

- The volume buttons on the headphones are disabled when the headphones are connected via SonicLink. Adjust the volume on the playback device.

❖ The sound is distorted.

- Check if there are any devices nearby, such as microwave ovens or wireless radios, emitting electromagnetic waves in the 2.4 GHz frequency band, or if there are any obstacles in the area.
- Adjust the volume of the playback device so that the transmitter input indicator LED does not light up in red.

❖ The transmission distance is short, but the sound skips.

- Check if there are any devices nearby, such as microwave ovens or wireless radios, emitting electromagnetic waves in the 2.4 GHz frequency band, or if there are any obstacles in the area.
- If sound cuts out or unwanted noise occurs when using 2 or more pairs of headphones, try increasing the distance between the pairs of headphones and between the transmitters.

When you want to use Bluetooth

❖ Can’t pair via Bluetooth.

- Bring the headphones and the device close together before pairing.

❖ Can’t establish a Bluetooth connection.

- Check that the connection mode is set to Bluetooth mode (wireless connection mode LED lights up in blue).
- Check that the headphones and the paired device are both turned on.
- Check that the Bluetooth function on the paired device is turned on.

❖ No sound is output (when playing music).

- Check that the headphones and the paired device are both turned on.
- Use an A2DP-compatible Bluetooth device.
- Check if the paired device is playing music.
- Check that the playback volume is not too low on the headphones and paired device.

❖ The sound is distorted (when playing music).

- Check if there are any devices nearby, such as microwave ovens or wireless radios, emitting electromagnetic waves in the 2.4 GHz frequency band, or if there are any obstacles in the area.

❖ Hands-free operation isn’t working.

- Use an HFP or HSP-compatible Bluetooth device.
- If the paired device is connected via Bluetooth using A2DP, a switchover may be required, depending on the device specifications.

❖ The transmission distance is short, but the sound skips.

- Check if there are any devices nearby, such as microwave ovens or wireless radios, emitting electromagnetic waves in the 2.4 GHz frequency band, or if there are any obstacles in the area.

Specifications

General	
Power	DC 5 V (when charging), DC 3.7 V (built-in rechargeable lithium polymer battery)
Playback time (in SonicLink mode) *1	When the Status LED is off: Approximately 9 hours When the Status LED is lit up: Approximately 7 hours
Playback time (in Bluetooth mode) *1	When the Status LED is off: Approximately 25 hours When the Status LED is lit up: Approximately 13 hours
Charging time*2 (+25 °C (+77 °F))	Approximately 2.5 hours
Recommended charging temperature range	+10 °C – +35 °C (+50 °F – +95 °F)
Usable temperature range	0 °C – +40°C (+32 °F – +104 °F)
Usable humidity range	35 % RH – 80 % RH (with no condensation)
Weight	285 g (10.06 oz)

*1 The volume, input music, etc., may vary depending on the conditions of use.

*2 Time required to fully charge from an empty state. Charging time may vary depending on the conditions of use.

Bluetooth	
Version	Bluetooth Specification Ver. 5.3
Maximum transmission distance	Approximately 10 m*3 in unobstructed circumstances
Frequency band used	2.4 GHz
Compatible Bluetooth profiles	A2DP, AVRCP, HSP, HFP
Compatible codecs	SBC, AAC

*3 The transmission distance may change depending on the connected device and the surrounding environment.

SonicLink	
Maximum transmission distance	Approximately 15 m *4 in unobstructed circumstances
Frequency band used	2.4 GHz

*4 The transmission distance may change depending on the connected device and the surrounding environment.

Headphones section	
Type	Closed, dynamic
Impedance	32 Ω
Sensitivity	106 dB
Frequency response	5 Hz – 30 000 Hz
Driver	ø40 mm (ø1.57″)
Plug	ø3.5 mm stereo mini plug

NFC section	
Supported standards	ISO/IEC 15693 (Tag)

Microphone section	
Type	Electric condenser
Directionality	Omni-directional
Active frequency band	100 Hz – 4 000 Hz

Other	
Head cushion	Silicone
Ear pads	Polyurethane (leather-style finish)

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