

USER MANUAL ON CAVE AUDIO RECEIVER

CAVE Wireless Audio Receiver

- Please be sure to read the "USER MANUAL" before using and then use accurately.
- The information contained in this USER MANUAL is subject to change without prior notice in order to improve the performance of the product.

Qualcomm aptX[®]-HD



-  Listening with earphones for extended periods of time can cause serious damage to hearing.**
 - Volume of the unit is fixed to the maximum size and is configured to be adjusted on the input device.
 - Be sure to check the volume position of the input device before using.
-  Please refrain from the use in case of thunder or lightning.**
 - There is a risk of fire or electric shock caused by lightning.
-  Do not use the earphones when driving (bicycles, motorcycles, cars, etc.) or walking.**
 - May be a cause of an accident and may be illegal depending on a country and an area.
-  Use only accessories and components specified by the seller or manufacturer.**
 - In case of non-specified accessories and components, there is a risk of injury, overheating, fire and so on.
 - For an injury or accident caused by damage and malfunction of the product due to any changes or modifications by users, the seller or the manufacturer cannot take responsibility.
-  Since this unit is an electronic device to which power is supplied, do not handle with wet hands when handling.** - This may result in a serious injury due to electric shock when handling with wet hands.
-  USB power must be for DC5V.**
 - A power supply must be genuine and otherwise, it may cause severe noise.
-  Since this unit should transmit the audio signal wirelessly, it causes interference with the reception to be the impediments to normal transmission.**
 - Please refer to this manual and use where there is no obstruction between the product and transmission equipment.
-  Be sure to select the switch located (see product structure) on the side of the unit prior to use and apply the power.**
 - If you operate the switch during using, a large noise (pop noise) is generated and may damage the hearing when using the earphone, and if connected to the audio device, it may cause problems with the audio unit and speaker system.

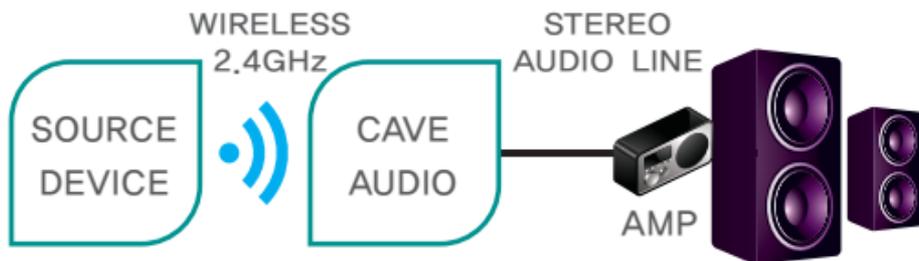
If strange smells or noises are generated during use of the product, stop use and contact your dealer immediately.



It is a product that allows you to listen to the music of smart devices in the best sound quality through a home audio and vehicle without wireless functions.



Wireless connection with smart devices is possible through a simple connection process, so if music stored in smart devices can be played or streamed through AUX (external input) terminals and sound devices that support external connection, by minimizing sound source loss due to high sound quality codec application You can enjoy sound close to the original sound.





Body



Antenna



Pins
(impedance adjustment switch)



USB Cable



RCA cable

- Pictures and illustrations in this manual are intended to help users better understand, so may differ from the actual product, and are subject to change without notice.
- Other items than basic components are optional.
- Please keep pins out of the reach of children because there is a risk that they may be swallowed.

◆ Product Features

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High quality codec

Provides the best sound by supporting high quality codec without loss of sound source

ACTIVE connection

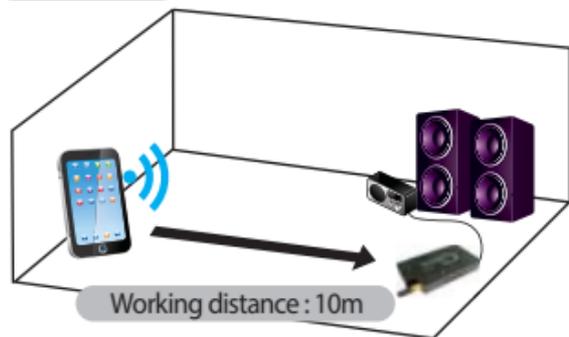
More easily connectable than conventional products. Quick access seamlessly without delay

IMPEDANCE Setting

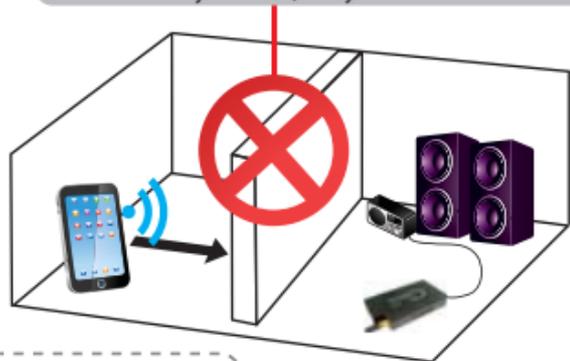
Best sound setting available depending on the specifications of the connected equipment

Design

Metal Type of clean and sleek design



※ If there are any obstacles, it may limit to transmission and reception



- ※ The connection cannot be free depending on the kind of smart devices.
- ※ Install the device's antenna where the user can see it easily

◆ Service Environment

- Temperature : -10 °C to 60 °C - Relative Humidity : 55 to 95% (up to 100%).

Classified	Specifications	Q' ty	Detailed Information
Model name			· AWCA-NA
Size, Weight	W x H x D[mm],g		· 110mm X 59mm X 16mm(including terminals), 119g
Chipset			· Qualcomm QCC3034
Wireless communications			· Frequency : 2.402 – 2.480 GHz · Transmit power : +9 dBm · Communication Distance : 10M(CLASS II)
Bluetooth			· Supported Codec : SBC,MP3,AAC,ATPX-LL FASTSTREAM,APTX,APTX-Sprint,APTX-HD
LED	RED LED	1	· Bluetooth connection – Stand-by for connection : blinking at 1 second interval – Connected : lit up
	GREEN LED	1	· Lights up when power is supplied normally
POWER	Micro USB 5P	1	· Input Power : DC 5V
Audio Output	Stereo Jack	1	· Standard 3.5 pin stereo
	Standard RCA Jack	2	· Left audio signal output (WHITE) · Right audio signal output (RED)
Switch	Piano DIP Type	2	· Left output impedance settings · Right output Impedance settings

◆ Product Structure

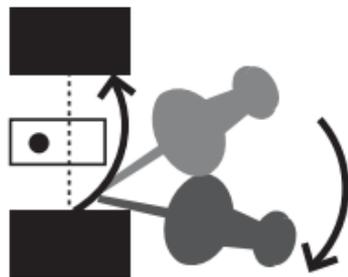
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Size, weight	W x H x D[mm],g	· 110mm X 59mm X 16mm(including terminals),119g
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◆ How to set the output impedance adjustment switch

	OUTPUT LOAD IMPEDANCE (R_L)	Impedance adjustment switch	LOWEST FREQUENCY (F_c)	Remarks
1	$16\Omega \sim 32\Omega$		14,09Hz	If 32Ω
2	$100\Omega \sim 10K\Omega$		14,47Hz	If $1K\Omega$
3	$100K\Omega \sim$		1,59Hz	If $100K\Omega$



If the switch ON, OFF,
If you manipulate using the lever principle,
it can be manipulated more easily.



If you do not know the input impedance of the connected device, first turn all the switches on the device to the OFF state and then try to listen. If there are lots of treble and lack of bass, turn switch 1 only ON and then listen again.

But if it is the same though, increase to #2, #3 and #4 switches in the same way.

★ You should adjust the impedance value of the equipment connected and can hear the best sound quality. ★

If the sounds stuffy or too much bass,

> Since the number of switches in combination (the number of the ON position) is too large, it is recommended to lower the number of combinations.

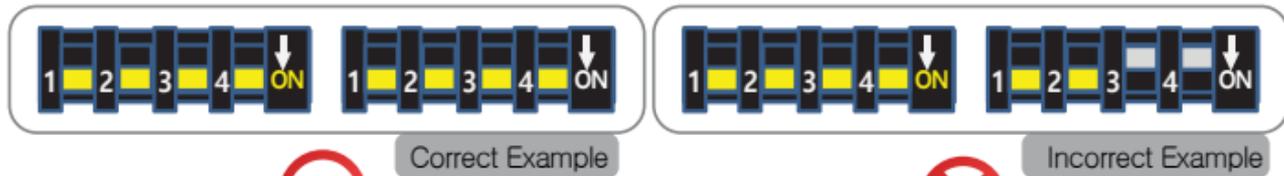
If there are lots of treble and lack of bass,

> Since the number of switches in combination (the number of the ON position) is too small, it is recommended to increase the number of combinations.

The switches on the side are composed of two groups from #1 to #4.

The switches are divided into left and right channels, and the two groups must be adjusted in the same location.

If you adjusted each other differently, the volume and quality of both the left and right can be printed differently.



Correct Example



Incorrect Example

As seen in page 7, the larger the sum of the combined switches, the lower the impedance.

Example) Switch sum calculation



Can be used to connect devices same with 16Ω , 32Ω



Can be used to connect devices such as home audio with more than $10K\Omega$

Low impedance devices such as earphones ($16\Omega \sim 32\Omega$) = (# 3 to be On) or (#4 to be On)

High input impedance such as home audio (higher than $10K\Omega$) = (only 3 time On) to be in place.

It is possible to use only one of switch no. 1, 2, 3 and 4 at the ON location or use all at on the ON location at the same time, but switches can vary depending on the sound devices, so please select the most harmonious case.

The value as illustrated above, is not an absolute value. It may differ depending on the device you wish to connect, please use it after adjusting while listening.

⚠ Do not operate the switch while wearing earphones or being on a connected device.

- A loud noise (POP noise) may be caused to damage the hearing or may cause a problem with the connected device and speaker system.

⚠ This unit is output at the same time in parallel at a 3.5mm stereo jack and a standard RCA Jack, but if you connect all devices to the two outputs, it can be problematic on quality and performance.

- If possible, choose one of the two outputs, and use it after connecting the sound device.

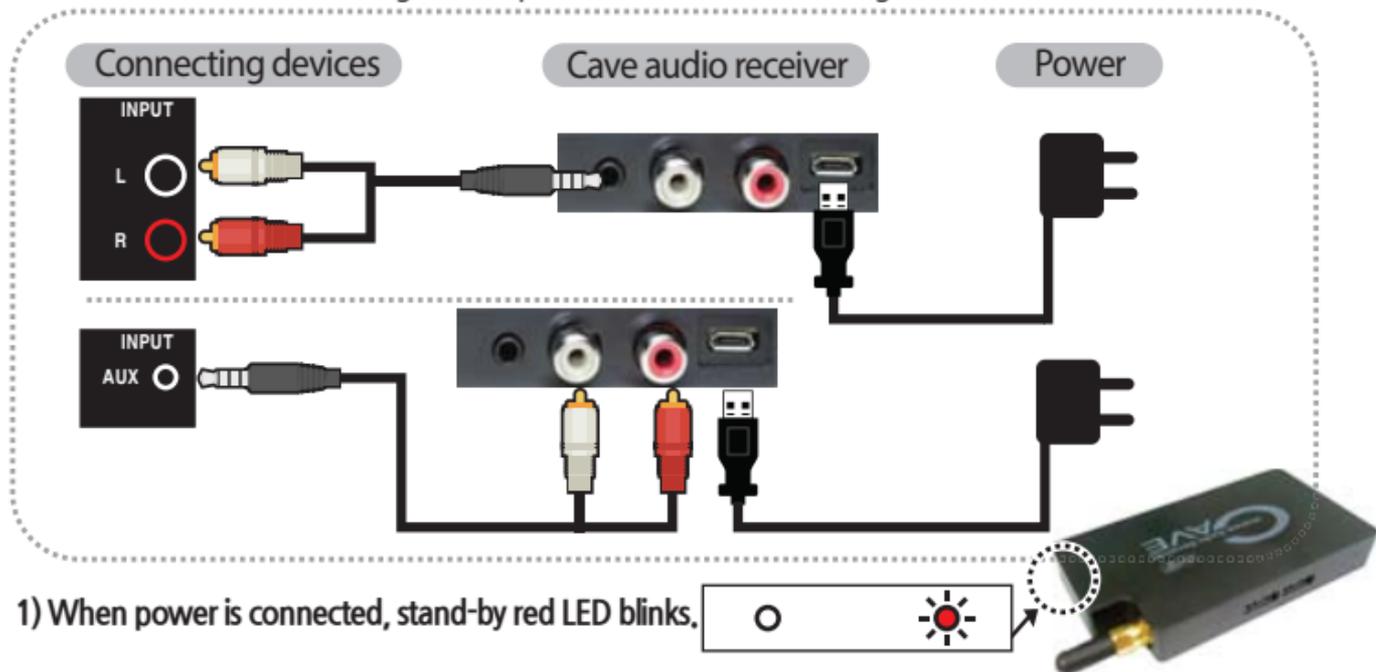
You can expect a good characteristic to match the input impedance of the device that is connected to Cave Audio Receiver (output impedance).

1. Adjust the switch, depending on the type of connected devices.

(See how to set the impedance)

2. Get connected to the connecting devices.

>> Get connected according to the input terminal of the connecting devices.



3. Wireless (Bluetooth) settings by smartphones

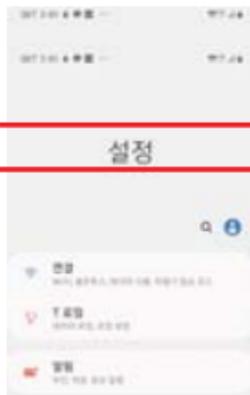


Smartphones

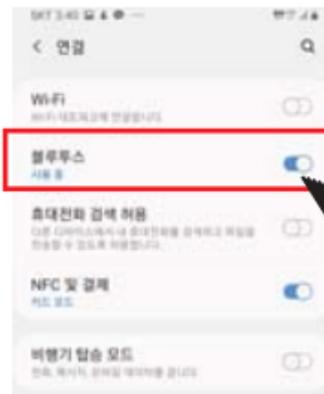


Cave audio receiver

1) Connect the CAVE AUDIO RECEIVER.



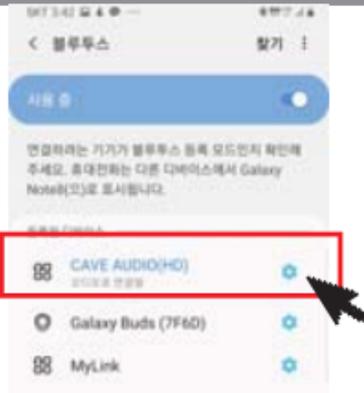
① Enter your preferences.



② When you turn on the Bluetooth, the equipment that can recognize appears.



③ Select CAVE-AUDIO.



④ CAVE-AUDIO will be connected.

2) When the connection is completed, the red LED will light up.



3) When you play a variety of playable app including Music, Video Playback, You tube, etc, a sound source will be output,

4) If the connected device disappears without terminating the connection, it will be switched to the standby mode. At this time, the standby red LED will blink,



Q1. Measures in case of a wireless connection failure

- 1) In case of abnormal termination of a wireless connection, the connection information of the unit may be an error.
- 2) Preferences -> Remove a registered device in the Bluetooth On
- 3) If you search and choose CAVE-AUDIO, it can be reconnected.

**Q2. Measures in case of no sound**

- 1) Make sure that the power is supplied correctly.
- 2) Check the cable connection to the device is correctly connected.
- 3) Make sure that wireless is connected to Bluetooth.
- 4) Make sure that the volume of the connected device is turned off.



This product requires aging time due to the nature of a device

◆ Product Warranty

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About the Product - Based on the consumer compensation regulations, a warranty for the product will be provided, as shown below.

Product name		Purchase date	. . .	Serial No.	
Model name		Where to purchase		Sale price	

**Warranty period :
1 (one) year from
date of purchase**

Consumer damage types		failures and defects in performance, functions that occurs naturally during normal use within retention period of the parts	Compensation details	
			Within the warranty period	After the warranty period
If the product is in need of major repairs within 10 days after purchased		Product replacement or refund of the purchase price	Product replacement	—
If critical parts are in need of repairs within 1 month after purchased				
If the replaced product is in need of major repairs within a month after replaced		Refund of the purchase price	Refund of the purchase price	
When replacement of parts is not possible				
Repairs available	If defects in the product are caused	Product replacement or refund of purchase price	Refund 10% plus depreciation amounts	Paid repair
	After repairing, the same defects of a product are generated 4th times			
	Failures of the various parts are repaired, but a failure is regenerated (5th times)			
Repair is not possible	When repair is not possible	Product replacement or refund of purchase price	Refund 10% plus depreciation amounts	—
	If repair is not possible due to unavailability of repair parts			
	If a repair person lost the product for repair requested by the Consumer			
	Damage caused during transportation and installation process when purchasing products	Product replacement	—	

The following failures will be treated at cost.

- * Failure due to user negligence
- * Connection to the power supply other than rated power
- * Failure due to user negligence
- * Deliberate disassembly and repair by the user
- * Breakdown by natural disasters (fire, flood, earthquake, lightning, etc.)
- * When supplies are replaced

* Refunds: Refund the purchase price (receipts to be submitted)

Please contact us for maintenance and repair at following phone number.
If you send us brief information about a fault condition in case of a failure, it will be more convenient.

Customer center :

Wireless Audio Receiver

<http://bitnbeat.com>

<http://blog.naver.com/caveaudio>

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Made in Korea