USB DAC Installation

The USB DAC function allows the device to be recognized as a sound card on a computer. Music from the computer is played through the device's headphone port for an enhanced listening experience.

USB DAC Specifications

- Supported OS
  - Windows 7(32bit/64bit) / Windows 8(32bit/64bit) / Windows 10(32/64bit)
    MAC OS 10.7(Lion) or later
- USB DAC Support Specifications
  - Supported Formats: PCM [8~384kHz(8/16/24/32bit)]
    DSD [2.8/5.6/11.2MHz]
- Control the volume with the AK device's volume wheel.

Playback is unavailable when settings exceed the supported formats.
The Previous, Play, and Next buttons are unavailable when connected as a USB DAC.
Playback may stutter when computer performance is slow or the USB connection is experiencing heavy usage.
There may be issues with audio-to-video synchronization during video playback depending on the sound quality and operating environment.
Even while the USB DAC is in operation, XLR audio output is enabled by pressing the [XLR] on the screen.
Optical output (S/PDIF) is unavailable when using the device as a USB DAC.
Volume cannot be adjusted via the Windows volume control. The volume wheel on the device or volume control on the appropriate program must be used to adjust the volume.
Install a dedicated driver to use the AK device as a USB DAC.
The driver file is located in PPM43\Internal_Storage\PPM43_ Contents \Driver. Before installing the driver, set device to USB DAC mode and connect to the computer.

How to Use USB Audio

Connect the device to a portable amp or DAC using USB Audio Out.

How to Connect a Portable USB DAC

1. Connect the portable USB DAC to the AK device's USB Type-C port with a dedicated cable.
2. Press [ ] in the Notification Bar.
3. Once [ ] is activated, you can enjoy music stored on the device through the connected portable USB DAC.

The USB Type-C cable that comes packaged with the device is only to be used for computer data transfer or to charge the device.
The type of dedicated cable needed to connect to the portable DAC varies; please refer to USB DAC manufacturer instructions for correct cable type.
A USB DAC cable is not included with the device and must be purchased separately.
Depending on the OTG cable used, the connection may be unstable.

How to Change USB Audio DSD Output Type

You can change the type of DSD data that is outputted through the USB audio out.

1. Select a DSD output type in [Menu - Settings - USB Audio].
   - PCM : DSD audio is converted into PCM before being outputted through the USB audio out.
   - DoP : DSD audio is converted into DoP before being outputted through the USB audio out.

The portable USB DAC must be able to receive digital input through the micro-USB's OTG.
Audio output may vary widely depending on the digital input specs of the portable USB DAC used. This is not a defect in the device output and not a reason for exchange or refund.
When using DoP as a DSD output type, no sound may be outputted except noise depending on the portable USB DAC.

CD Ripping

CDs can be ripped directly to the device using the AK CD-RIPPER (sold separately).

Connecting AK CD-Ripper

1. Connect the AK CD-Ripper to PPM43 using a dedicated USB Type-C to micro USB cable.
2. After inserting the CD, swipe down on the screen to open the notification bar and press [CD Ripper] to select the desired function.
3. Start ripping by pressing [CD Ripping] in the Select Function menu.

The USB Type-C cable provided with the device is to be used to connect to the computer or to charge the product.
Depending on the CD-Ripper model the dedicated USB Type-C OTG cable may not be provided in the product package.
Depending on the OTG cable used, the connection may be unstable.

CD Ripping Results

- ● : Indicates that CD ripping is complete, or that CD ripping was successfully completed after correcting an error via error correction.
- × : Indicates that the song currently being ripped can be canceled by user.
- ! : Indicates that CD ripping failed due to an error that can't be corrected, such as a scratched CD, or that CD ripping was canceled by user.

To search the Gracenote database, the device must be connected to Wi-Fi. Database access time may vary depending on the network environment.
Please note that metadata for certain CDs may not be available on the Gracenote database.
You cannot access the Home Screen while CD ripping is in progress. The AK Connect service will be disabled during CD ripping. The service will automatically restart when CD ripping is completed. Music playback is disabled during ripping.
You can set the desired file format and ripping speed from the [Menu - Settings - CD Ripping] menu.
Several attempts at correction will be made for data with errors when the feature is enabled under [Menu - Settings - CD Ripping - Error Correction]. Please note that the CD ripping speed will be affected when this feature is enabled.

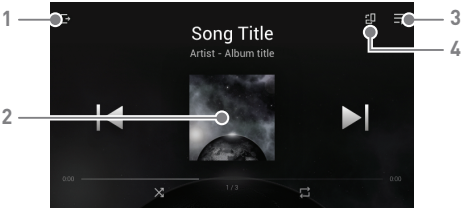
AK CD-Player

Using the AK CD-Player Function

1. Connect the AK CD-Ripper to PPM43 using a dedicated USB Type-C to micro USB cable.
2. After inserting the CD, swipe down on the screen to open the notification bar and press [CD Ripper] to select the desired function.
3. Select Function menu. The CD player app will initiate and CD will automatically begin to play.

The USB Type-C cable provided with the device is to be used to connect to the computer or to charge the product.
Depending on the CD-Ripper model the dedicated USB Type-C OTG cable may not be provided in the product package.
Depending on the OTG cable used, the connection may be unstable.
To search the Gracenote database, the device must be connected to Wi-Fi. Database access time may vary depending on the network environment.
Please note that metadata for certain CDs may not be available on the Gracenote database.
General audio CD and MQA-CD playback is supported, but MP3-CD won't play.

Car Mode



1		**Exit**	Exit car mode.
2		**Play/Pause**	Play or pause music.
3		**Playlist**	Display current playlist.
4		**Screen Rotation**	Switch the screen orientation to horizontal mode/vertical mode.

Settings

The settings menu allows users to customize the device. The settings menu may vary depending on the firmware version.

Setup

1. Select [Main Menu - Settings] or select [⟨⊙⟩] from the Notification Bar menu.
2. Select the feature to view setting options.

Wi-Fi

- Change wireless network settings and turn Wi-Fi on/off

See page 48 for more information on connecting to Wi-Fi.

Bluetooth

- Connect a Bluetooth device to listen to music wirelessly.

See page 49 for more information on using Bluetooth.

AK CONNECT

- Turn AK Connect on/off and set AK Connect options.

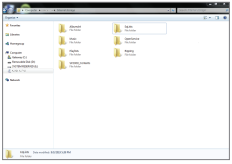
Equalizer

- Set the equalizer according to the user's preferences.
  - USER EQ: Adjust the frequencies according to the user's preferences.

Supported Formats for EQ: PCM [8 ~ 192kHz(8/16/24bit)]
Using the equalizer may negatively affect device performance.
See pages 51 - 53 for more information on using the equalizer.

EQ Sync

- Share or receive Custom User EQ files.
  - To access custom EQ files, connect the device to the computer.
    Internal Storage -> EqLists -> "User EQ.dat"



Shared User EQ files can only be shared between the same model.
If the User EQ file is modified or changed externally it will no longer be recognized.
User EQ.dat will not display in the PPM43, however it can be viewed when connected to the computer.
Up to 20 User EQs can be displayed.

Gapless

- Plays the next song without any interruption.
  - Gapless playback is only supported between two files with identical bit rates, sample rates, and channels.

LR Balance

- Adjust the left-right balance for earphones/headphones.

Playback Settings

- Set how to add a song to Now Playing when a song is selected from a music list.

AMP

- The AMP output can be set to LOW, MID, or HIGH.

The amplifier supports 3.5 mm and 2.5 mm connections.
The battery can drain quickly when set to high gain. Be sure to connect the charging cable when using high gain.

CD Ripper

- Set the automatic CD ripping function as well as the file format and ripping speed.

Line Out

- Set the voltage value generated when Line Out is activated.

Do not use earphones with the Line Out feature enabled. Doing so may cause permanent hearing loss.
Line-out is supported when the amplifier is set to low gain.

USB mode

- Media Device (USB Drive): When connected to a computer, device appears as a removable drive.
- DAC Input: Output sound from a connected computer to the device.

USB Audio

- Select the type of DSD sound being outputted through USB Audio Out to a connected portable DAC.
  Enable/Disable MQA decoding software.

S/PDIF Conversion

- Set the appropriate output format for the S/PDIF-connected external device.

Output format may differ depending on the connected external device. Please refer to the specifications of each device.

Car mode

- Turn the car mode on/off.
- Double Tap Wake function
  - If the screen is off, tap the screen twice to turn it back on.
  - When the device is connected to a charger, the screen will remain on.
  - If the power button is used to turn off the screen, the Double Tap Wake function will remain enabled.

Notification Panel

- Add, delete, or reorganize Quick Settings buttons on the notification bar.
  Drag and drop icons to add quick settings buttons or change the preferred order.

Screen Brightness

- Adjust screen brightness settings.

Date & Time

- Set the current date and time.

Device Name

- Set the name of the device.
  - The maximum name length is 50 characters.

Language

- Select the display language.
  - Supported languages are English, Korean, Japanese, French, Russian, German, and Spanish.

Input Method

- Back Button: the Floating Back Button will be displayed on the screen.
  - Move the Back Button to the desired position by dragging and dropping the icon with your finger.
  - Move the button to the center of the screen to deactivate it. To reactivate the button, turn it on from [Menu-Settings-Input Method]
- Keyboard: Select a language for the keyboard.
  - Supported languages are English, Korean, Japanese, Chinese (Simplified/Traditional), French, Russian, German, and Spanish.

Supported languages may vary depending on your location.

Timer Settings

- Auto Power Off: The device will automatically power off after the selected amount of time of no user and device activity.
- Screen Timeout: The screen will turn off after the selected amount of time of no user activity.
- Sleep Timer: Music playback will stop and the device will turn off after the selected amount of time.

Downloads

- Select a folder for downloaded files to be saved by default.

When using AK Connect to download music, if the [Default folder] is selected in Settings, downloading will automatically begin to the pre-set Downloads folder.
When [Select Folder] is selected, the user is prompted to choose a download folder each time a file is downloaded.

Update

- System Update: Update the device when a new firmware version is available.
- Application Update: Update the default applications when new versions are available.

System Information

- System Information: View model number, firmware version, MAC address and memory usage information. The microSD card can be mounted/dismounted and data can be deleted.
- Legal information: Check open source licenses and regulations.

Formatting the microSD card will delete all data on the memory card. Be sure to backup any important files before formatting. When formatting the microSD card on a computer, use of the FAT32 system is recommended.

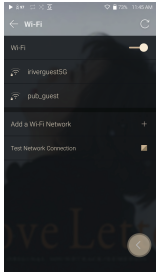
System Reset

- Initialize Media Scan: Resets and rescans the internal database. Database initialization time may vary depending on the number of files stored on the device.
- Settings Reset: Resets all user settings back to the default settings.
- Factory Data Reset: Deletes all user data and resets all user settings back to the default setting.

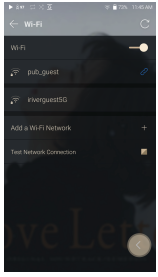
Connecting to Wi-Fi

Connecting to a Wi-Fi Network

1. Press and hold [ ] from the Notification Bar or select [Menu - Settings - Wi-Fi] to display a list of available Wi-Fi networks.



2. Select the desired AP to connect to the wireless network.
   - Additional information such as Wi-Fi password may be required depending on Wi-Fi settings.



Networks requiring browser or other additional certifications are not supported.
Wi-Fi Channels 1 through 13supported, except in the USA, channels 12 and 13 are disabled.

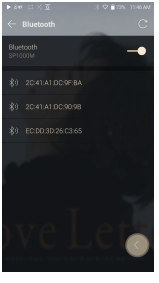
Using Bluetooth

Connect a Bluetooth device to listen to music wirelessly.

Turning Bluetooth On/Off

A Bluetooth device must be paired with the device prior to use.
Refer to the Bluetooth device's instruction manual for details.

1. Select [ ] from the Notification Bar menu or select [On/Off] from [Menu - Settings - Bluetooth].

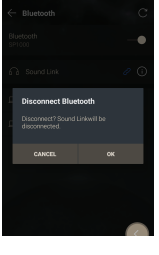


Bluetooth Pairing

1. In the Settings Menu, select the appropriate Bluetooth device from the list of available devices.

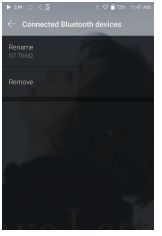
Disconnect a Bluetooth Device

1. Press the connected Bluetooth device and confirm the message prompt to disconnect the device.



Removing a Bluetooth Pairing

1. Press [ⓘ] to the right of the paired device to go to settings.
2. Select [Remove] to complete the process.



Bluetooth Support Specifications

- **Profile: A2DP, AVRCP, LDAC, aptX™ HD**
- **Device performance may be affected during Hi-Res playback.**

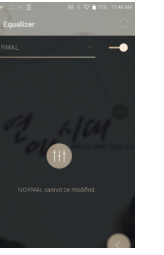
Do not turn off the device while connected to Bluetooth.
Turn the Bluetooth device off then on in case of issue.
Pairing methods may differ for each individual Bluetooth device. Always refer to the respective instruction manual for details.
When connecting the product to a Bluetooth device, the distance between the two must be within 20 cm.
Audio quality will degrade with longer distances and the pairing may disconnect at a distance of 2 m (6.5 ft.) or more. (Distances may vary depending on device and environment.)
Crosstalk may be heard while using Bluetooth.
For multipoint devices, make the necessary connections prior to use.
Car audio Bluetooth connections may not be fully compatible. Some features may not be supported and quality of playback may vary.
Malfunction, noise, and other undesirable effects may occur due to the device's battery level and the environment.

- **If signal interference affects data transmission. (e.g., holding the device while wearing a Bluetooth device, holding the device while holding another electronic device, etc.)**
- **If the device or Bluetooth headset's radio transmitters are touching parts of the body.**
- **If the transmission strength is affected by walls, corners, partitions, etc.**
- **If devices using the same frequencies cause interference. (e.g., medical devices, microwave ovens, Wi-Fi, etc.)**
- **Areas with an excessive amount of interference or weak signals. (e.g., elevators, underground, etc.)**

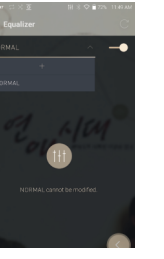
Equalizer Setup

Equalizer Setup

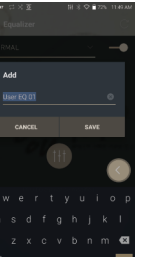
1. Press and hold [ ] on the Notification Bar or turn on [Menu - Settings - Equalizer].



2. Press [NORMAL], then select [+].



3. Enter a name for the custom EQ settings and select [SAVE].

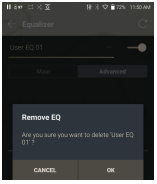


4. Adjust the frequencies up and down according to the user's preferences.
5. The number values at the lower-left corner of the screen can be adjusted for fine-tuning.

6. Press the [Advanced] tab on the top to display PEQ settings screen. Adjust Freq/Gain/Q.

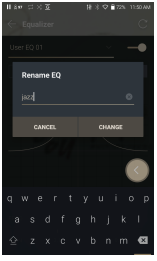
Deleting a Custom Equalizer Setting

1. Press [NORMAL] in the upper left of the equalizer.
2. Press [🗑] next to the EQ name to be deleted.
3. Press [OK] to delete the selected EQ setting.



Renaming a Custom Equalizer Setting

1. Press [NORMAL] in the upper left of the equalizer.
2. Press [✎] next to the EQ setting name you wish to change and enter a new name for the selected EQ.
3. Press [CHANGE] to save.



Safety Pre-Cautions

Device

- When a plug is inserted into the 3.5mm unbalanced, 2.5mm balanced, or USB port, do not apply any force or impact to the plug.
- Do not insert any metal objects (coins, hairpins, etc.) or flammable debris into the device.
- Do not put heavy objects on the device.
- If the device gets wet (rain, water, chemicals, medicine, cosmetics, sweat, moisture, etc.), allow the device to dry thoroughly before powering on. (Damage may not be repairable, however if deemed repairable, any damage due to liquid exposure will be repaired for an additional fee even if the device is under warranty.)
- Avoid exposing the device to direct sunlight or extreme temperatures (0℃ - +40℃) such as the inside of a car during the summer.
- Do not store or use in hot and humid places such as saunas.
- Avoid places with excessive dust or smoke.
- Do not use for extended periods on blankets, electric blankets, or carpet.
- Do not place near a fire or in a microwave.
- Never disassemble, repair, or alter the product.
- Do not store for extended periods in a confined space with the power on.
- Do not place the device near magnetic objects (magnets, televisions, monitors, speakers, etc.).
- Do not let chemicals or detergents come in contact with the product since they may damage the surface and paint.
- Do not drop or expose the product to strong impacts (places where there is strong vibration, etc.).
- Do not press multiple buttons simultaneously.
- Do not disconnect the USB Type-C cable during data transfer.
- When connecting the device to a computer with the USB Type-C cable, use a USB port on the back of the computer for best results.

- Connecting the cable to a defective or damaged USB port on a computer may damage the device.
- Displaying one image for an extended period may cause screen burn-in (afterimage).
- Using poor quality protective films or adhesive stickers on the screen may cause damage.
- Do not insert any foreign objects into the device ports.
- The device may become warm while playing and charging, so handle it carefully.
- Product's corners may be sharp, so handle carefully.

Other

- Do not use earphones/headphones or use the device while operating any type of vehicle. It is not only dangerous, but may be a violation of the law in certain regions.
- Do not use the product during physical activities (driving, walking, hiking, etc.).
- Always use in a safe environment to avoid the risk of an accident.
- When using the device while moving, make sure the area is free of obstacles.
- Avoid using the device during thunderstorms to reduce the possibility of electric shock.
- If there is a ringing in the ears, reduce the volume or stop using the device.
- Do not listen to music at excessive volumes for extended periods.
- Do not use earphones/headphones at excessive volumes.
- Make sure that the headphone/earphone does not get stuck in another object or get caught between other objects.
- Do not sleep with earphones in your ears or leave them in for extended periods.

Trouble-shooting

Solutions to Common Issues

1. The device won't turn on.
   - The battery may need to be recharged. Charge the device for at least one hour and try again.
   - Reset the device. (See Page 5)
2. The device will not charge when connected to a computer via USB cable.
   - Connect to the computer using the provided USB Type-C cable. Charging may not occur depending on the condition and specifications of your computer.
     (In this case, charging via computer is not recommended.)
   - Connect the device to a USB wall adapter using the provided USB Type-C cable to charge directly from a wall outlet.
3. The computer won't recognize the device or an error occurs when connected.
   - Use a USB port on the back of the computer.
   - Check if the USB Type-C cable is connected correctly.
   - For Mac, check to ensure the MTP program is installed properly.
   - Check if the device connects properly on a different computer.
4. The screen turns off repeatedly.
   - The screen turns off automatically after a defined period to reduce battery consumption. Set the time at [Menu-Settings - Timer Settings - Screen Timeout].
5. The screen does not display images properly.
   - Check the screen for debris.
6. There is no sound or there is static/interference.
   - Check that the volume setting is above [0].
   - Check that the earphones are plugged in properly and make sure nothing is obstructing the port connection.
   - Verify that the music file is not corrupt.
   - Verify that the audio settings have been set properly. (Balanced out, line out, etc.)

7. A file does not play or the product becomes unstable when a certain file is played.
   - File may be damaged or corrupt if the following occurs:
     - Playback stops or freezes.
     - Device may act erratically or freeze.
     - File may sound different on another device.
     - There may be a difference in the performance of playback or other functions.
     - There may be differences in the file specs.
   - Converting the file to a different format or use of a different file is recommended.

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Certifications

KC / FCC / CE / TELEC

Class B Device (Communication equipment for residential use): This is a Class B Device and is registered for EMC requirements for residential use. This device can be used in residential areas and all other areas.

FCC ID: QDMPPM43
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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Instruction of E-Label

You can view the FCC ID of the device. To view the FCC ID, tap Settings → System Information → Regulatory

(b) For a Class B digital device or peripheral, the instructions furnished to the user shall include the following or similar statement, placed in a prominent location in the text of the manual: 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.

Body-Worn Operation
This device was tested for typical body-worn operations with the back of the portable music player kept 5mm from the body. To maintain compliance requirements, use only belt-clips, holsters or similar accessories that maintain a 5mm separation distance between the user's body and the back of the portable music player, including the antenna. The use of belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with CE RF exposure requirements and should be avoided.
Body-worn accessory exposure conditions "Specific information must be included in the operating manuals to enable users to select body-worn accessories that meet the minimum test separation distance requirements. Users must be fully informed of the operating requirements and restrictions, to the extent that the typical user can easily understand the information, to acquire the required body-worn accessories to maintain compliance. Instructions on how to place and orient a device in body-worn accessories, in accordance with the test results, should also be included in the user instructions. All supported body-worn accessory operating configurations must be clearly disclosed to users through conspicuous instructions in the user guide and user manual to ensure unsupported operations are avoided. All body-worn accessories containing metallic components must be tested for compliance and clearly identified in the operating manual. The instruction must inform users to avoid using other body-worn accessories containing metallic components to ensure RF exposure compliance."

Registered Trademarks

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Qualcomm®
aptX™ HD

MQA

MQA (Master Quality Authenticated) is an award-winning British technology that delivers the sound of the original master recording. The master MQA file is fully authenticated and is small enough to stream or download. Visit mqa.co.uk for more information.

Astell&Kern PPM43 includes MQA technology, which enables you to play back MQA audio files and streams, delivering the sound of the original master recording.
The PPM43 Now Playing status shows a green or blue light to indicate that the unit is decoding and playing a MQA stream or file, and denotes provenance to ensure that the sound is identical to that of the source material. A blue light indicates it is playing a MQA Studio file, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner.
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Disclaimers

The manufacturer, importer, and distributor shall not be liable for damages including accidental and personal injury due to the improper use or operation of this product. The information in this user manual was written based on current product specifications. The manufacturer, Dreamus Company, regularly adds new features via OTA updates and will continue to apply new technologies in the future. Product specifications may be changed without prior notice. There is no warranty against data loss due to the use of this product.

The device must be used a minimum of 5mm away from the body in normal use conditions.

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS

The excessive sound pressure from earphones and headphones can cause hearing loss.

Specifications

General Specifications	
Product Name	KANN ALPHA
Model	PPM43
Body Color	Wolf Gray
Body Material	Aluminum
Display	4.1inch 720x1280 touch display
Supported Audio Formats	WAV, FLAC, WMA, MP3, OGG, APE, AAC, ALAC, AIFF, DFF, DSF, MQA
MQA Playback	Services (Tidal Masters), Local files, External USB, MQA-CD(ripped)
Sample Rate	PCM : 8kHz ~ 384kHz (8/16/24/32bits per Sample) DSD Native: DSD64(1bit 2.8MHz), Stereo / DSD128(1bit 5.6MHz), Stereo / DSD256(1bit 11.2MHz), Stereo
Output Level	(Low) Unbalanced 2Vrms / Balanced 4Vrms, (Condition No Load), (Mid) Unbalanced 4Vrms / Balanced 8Vrms, (Condition No Load), (High) Unbalanced 6Vrms / Balanced 12Vrms, (Condition No Load)
DAC	ESS ES9068AS x2 (Dual DAC)
Decoding	Support up to 32bit / 384kHz Bit-to-Bit playback
Input	USB Type-C input (for PC & MAC)
Outputs	Unbalanced Out (3.5mm) / Balanced Out (4.4mm, 2.5mm) / Optical Out (3.5mm)
Charging	9V⎓1.67A / 5V⎓2A
Wi-Fi	802.11 b/g/n (2.4GHz)
Bluetooth	V5.0 (A2DP, AVRCP, aptX™ HD)
Dimensions	2.68"(68.22mm)[W] x 4.61"(117.1mm)[H] x 1.00"(25.63mm)[D]
Weight	11.15oz (316.3g)
Feature Enhancements	Firmware upgrade supported(OTA)
Audio Specifications	
Frequency Response	±0.027dB (Condition : 20Hz~20kHz) Unbalanced / ±0.025dB (Condition : 20Hz~20kHz) Balanced ±0.07dB (Condition : 10Hz~70kHz) Unbalanced / ±0.087dB (Condition : 10Hz~70kHz) Balanced
S/N	117dB @ 1kHz, Unbalanced / 117dB @ 1kHz, Balanced
Crosstalk	129dB @ 1kHz, Unbalanced / 136dB @ 1kHz, Balanced
THD+N	0.0004% @ 1kHz, Unbalanced / 0.0005% @ 1kHz, Balanced
IMD SMPTE	0.0005% 800Hz 10kHz(4:1) Unbalanced / 0.0006% 800Hz 10kHz(4:1) Balanced
Output Impedence	Unbalanced Out (1.2ohm) / Balanced Out (1.6ohm)
Reference Clock Jitter	250 Femto Seconds
Memory	
Built-in Memory	64GB (NAND)
External Memory	microSD (Max. 1TB) x1
Battery	
Capacity	5,600mAh 3.8V Li-polymer
Supported OS	
Supported OS	Windows 7,8,10(32/64bit) Mac OS X 10.7 and up

SDoC information

Supplier's Declaration of Conformity

47 CFR § 2.1077 Compliance Information

Unique Identifier	PPM43
Responsible Party - U.S. Contact Information	
Company	Invixion Inc.
Address	19600 Fairchild Road, Suite 125 Irvine, CA 92612
Contact information	support@theinvixion.com
	(949) 336-4540