

PPM42

Astell&Kern

INSTRUCTION BOOK

User Guide

IRIVER

CONTENTS

Getting Started _01

Package Contents	02
Product Overview	03
Power Management	05
Charging	06
Connections	07
Firmware Updates	13

Using the Device _02

Basic Operations	14
Home Screen	18
Notification Bar	20
Music Services	23
Using Open APP Service	24
AK CONNECT	25
Listening to Music	31
Playlist Management	34
USB DAC Installation	37
How to Use USB Audio	38
CD Ripping	39
Settings	41
Connecting to Wi-Fi	47
Using Bluetooth	48
Equalizer Setup	50

Miscellaneous _03

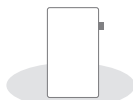
Safety Pre-Cautions	53
Troubleshooting	55
Copyright	56
Certifications	57
Registered Trademarks	58
Disclaimers	59
Specifications	60

Package Contents

Contents may be changed without prior notice to improve the performance or quality of the product.



PPM42



Protective Film



microSD Card
Slot Cover



USB Type-C Cable



Quick Start Guide
& Warranty Card

Protective Film: Protects the product's screen.

microSD Card Slot Cover: The cover is used to protect the microSD card slot when not in use. It is installed in the product by default.

USB Type-C Cable: For charging and data transfer.

Quick Start Guide: Basic overview of device functionality.

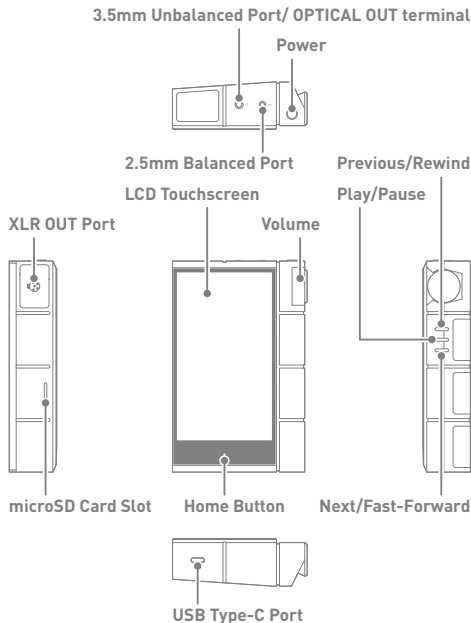
Warranty Card: Provides warranty details for your device. Maintain a copy of this card since it may be required for future technical support requests.

User Guide: The User Guide can be downloaded from the Astell&Kern website.

[<http://www.astellnkern.com> Support > Download].

Product Overview

The appearance of the product, as well as the printed and engraved information, may vary depending on the model.



3.5mm Unbalanced Port/ OPTICAL OUT terminal:

🎧 - 3.5mm Unbalanced / S/PDIF Port symbol.

For audio output, connect earphones or headphones that utilize a 3.5mm jack. Music can be played back on an S/PDIF-capable external device via an optical cable.

2.5mm Balanced Port: BAL. - **2.5mm Balanced Port symbol.**

For audio output, connect earphones or headphones that utilize a 2.5mm jack.

XLR OUT Port : Music can be played back on an XLR-IN capable external device via an XLR cable.

microSD Card Slot: - **microSD Card Slot symbol.**

Insert a microSD card to access its files.

Power: - **Power symbol.**

Short press - Turns the screen on or off.

Press and hold - Turns the device on or off.

LCD Touchscreen: Display screen with touch control features.

Volume: Turn the wheel to adjust the playback output volume level.

Play/Pause: Play or pause the current song.

Previous/Rewind:

Short press - Play the previous song or restart the current song.

Press and hold - Rewind the current song.

Next/Fast-Forward: Short press - Play the next song.

Press and hold - Fast-forward the current song.

Home Button: Press to return to the Home Screen.

USB Type-C Port: 9V 1.67A - **DC Power symbol.**

For charging and data transfer.

Power Management

Powering the Device On/Off

1. Press and hold the [Power] button to turn on the device.
2. While the device is on, press and hold the [Power] button to shut down the device. A confirmation message will appear.
3. Press [OK] to turn off the device.



This device has an automatic shutdown feature to save battery power. The device will turn off if there is no user input during the period defined in [Menu - Settings - Timer Settings - Auto Power Off] (See Page 45)

Turning the Screen On/Off

1. While the screen is on, press the [Power] button to turn off the screen.
2. Press [Power] button again to turn it on.



This device has an automatic timeout feature to save battery power. The screen will turn off if there is no user input during the period defined in [Menu - Settings - Timer Settings - Screen Timeout]. (See Page 45)

Reset Function

1. In case of unexpected device failure or freeze, press and hold [Power] for 7 seconds to force a shutdown. The device can then be restarted after the shutdown is complete.



Resetting the device will not affect stored data or time settings. Do not use the reset function while the product is in use. Doing so may corrupt the data on the device.

Charging

Charging via USB Wall Adapter

1. Commercially available 9V 1.67A output adapters may be used for charging.



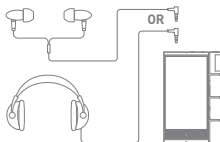
Fast charging time: Approx. 4 hours (Fully discharged, Power-off, 9V 1.67A adapter) / Normal charging: About 8 hours (Fully discharged, Power-off, 5V 2A adapter)

A fast charger of 9V 1.67A may be used. Using a 12V adapter will not charge the device and may cause malfunctions.

Connections

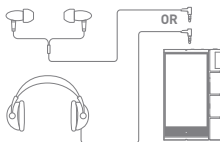
3.5mm Unbalanced Port

1. Connect earphones or headphones to the 3.5mm unbalanced port.



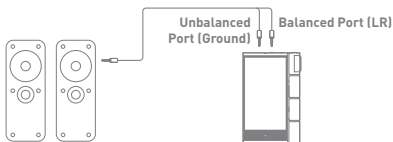
2.5mm Balanced Port

1. Connect earphones or headphones to the 2.5mm balanced port.



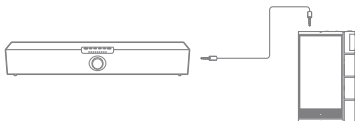
Connecting to Balanced Audio Device

1. Connect to an external audio device by using the 3.5mm unbalanced port and 2.5mm balanced port.



Connecting S/PDIF OUT

1. Listen to music through an external device by connecting the S/PDIF-IN-compatible external device using the optical cable and operating the product. Turn on the output format conversion function in [Menu-Settings-S/PDIF Conversion], to convert to the format that is set when S/PDIF connection is made and output.



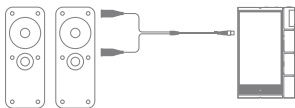
At S/PDIF OUT, the DSD format is converted to PCM and played back. PCM can select output bit rate (16/24bit) and sample rate (48/96/192kHz).

The volume will be fixed at the maximum level.

The output format of connected external devices may differ so refer to the specifications of each device.

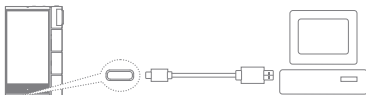
Connecting to XLR OUT

1. Music can be played back on an XLR-capable external device via an XLR cable.
Enable XLR output from [Menu > Settings > XLR] and connect to an external device using an XLR cable.



Connecting to Computer

1. Turn on the device and your computer.
2. Use the USB Type-C cable to connect the device to a computer in accordance with settings in [Menu - Settings - USB Mode].
 - [Default] Media Device (USB Drive): Transfer files from a computer to the device.
 - DAC Input: Listen to music on a connected computer through the device. (See Page 38)



Mac users need to download and install Android File Transfer from the Astell&Kern website. [<http://www.astellnkern.com> > Support > Download]

For an optimal connection, quit any unnecessary programs before connecting the device to the computer.

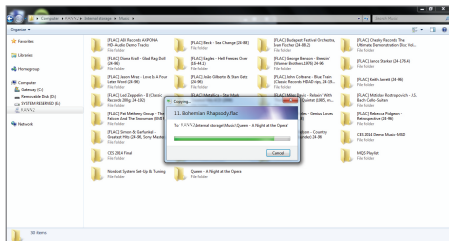
Do not use cables other than the USB Type-C cable provided with the device. Doing so may cause malfunctions.

Use USB 2.0 only on Mac.

Type-C-to-Type-C cable is recommended when connecting with a MAC that supports Type-C port.

Copy Files (Folders) to the Device

1. To copy files/folders from your computer, select the desired files/folders and drag & drop them into the device folder.



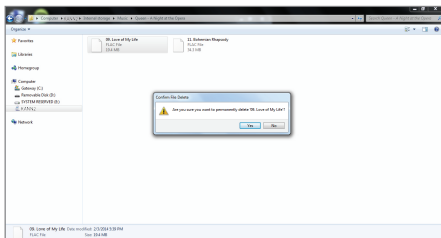
Ensure the USB Type-C cable is properly connected.

Turning off the device, computer or disconnecting the USB Type-C cable while copying or moving files/folders may corrupt files or device memory.

File transfer speeds may be affected by the computer and/or the OS environment.

Delete Files (or Folders) from the Device

1. Select the file/folder to delete, right-click the mouse, and then select [Delete].
2. Select [Yes] in the [Confirm File/Folder Deletion] window to delete the selected files/folders.



Disconnecting from the Computer

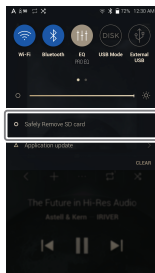
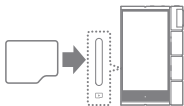
1. Disconnect the USB Type-C cable after the transfer between the device and computer is complete.



Disconnecting the device from the computer during a file transfer may corrupt data on the device.

Insert/Remove a microSD Card

1. Refer to the diagram and gently insert a microSD card into the microSD card slot.
2. To safely remove a microSD card, on the Home Screen, select [Safely remove SD card] from the Notification Bar or select [Unmount SD card] from [Menu - Settings - System Information].
3. Gently press the microSD card in to unlock and release it from the slot.



Recommended microSD Cards

SanDisk, Transcend



Maximum Capacity: 400GB

Notes on Inserting a microSD Card

- Do not force the microSD card into the slot. Doing so may cause malfunction of the product and damage to the card.
- Do not repeatedly insert/remove the microSD card.
- If not inserted properly, the microSD card may cause product malfunctions and may become lodged in the product.

Notes on Removing a microSD Card

- Be sure to safely remove the microSD card from the device. Not following the proper procedure may corrupt data and cause serious damage to the both the card and device.
- Do not remove the microSD card during use. Doing so may cause malfunction, delete data and damage the microSD card.

Notes on Using a microSD Card

- If the microSD card is not recognized or functions improperly, format the card, preferably in the FAT32 system.
- Using cards other than the recommended microSD card types may cause malfunctions.
- A microSD card is not included in the product package. Please purchase separately.

Firmware Updates

Wi-Fi Update / OTA (Over-the-Air)

1. Connect to a wireless network.
2. If a new firmware update is available, the screen will display a Firmware Update Guide window.
3. Select [Update].
4. Follow the on-screen instructions to proceed with the firmware update.



For Wi-Fi connections, see Page 47.

The firmware update may not start if the battery level is too low. (A minimum battery level of 20% is required.)

Do not disconnect from the wireless network while downloading the update file. Doing so may cause data corruption and/or damage to the system.

If an error occurs or the notice in the Notification Bar disappears during an update, download the firmware update again through [Menu - Settings - Update - System].

Moving to another screen during a file download will cancel the download.

Basic Operations

LCD Touchscreen

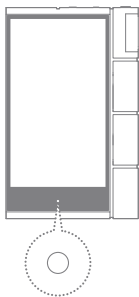
1. This device features an LCD touchscreen that allows you to perform operations by touch.
Use the touchscreen to access various features on the device.



To prevent damage to the screen, do not use a sharp object or excessive force.

Return to the Home Screen

1. Press [] at any time to return to the Home Screen.

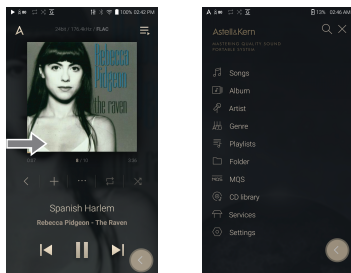


Home Screen

From the Home Screen, swipe your finger to the left, right, up or down from any edge of the touchscreen to access display menus. Each side of the Home Screen will activate a different display menu.

Main Menu

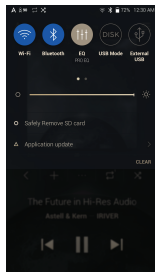
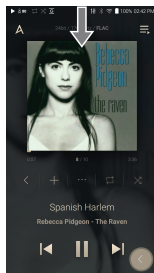
1. From the left edge of the touchscreen, swipe your finger right to display the Main Menu.



Music files extracted using the AK CD-Ripper accessory that are stored in the Ripping folder of the internal memory will be displayed in the CD library menu.

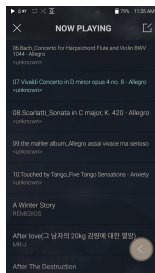
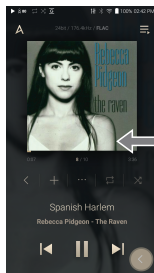
Notification Bar

1. From the top edge of the touchscreen, swipe your finger down to display the Notification Bar.



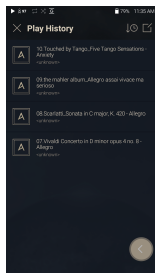
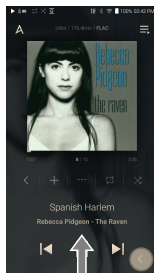
View Current Playlist

1. From the right edge of the touchscreen, swipe your finger left to display the Now Playing menu.



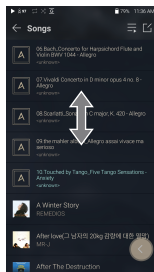
View Play History

1. From the bottom edge of the touchscreen, swipe your finger up to display the Play History menu.

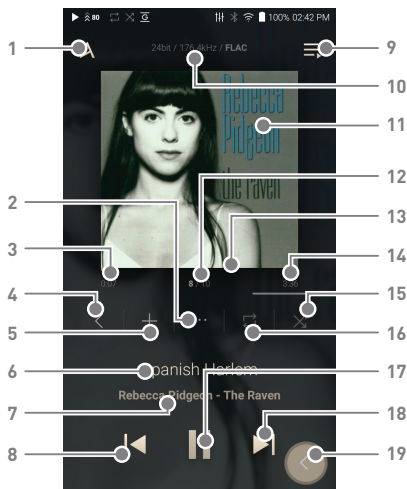


Moving Up/Down on a List

1. Scroll through a list by dragging your finger up or down.



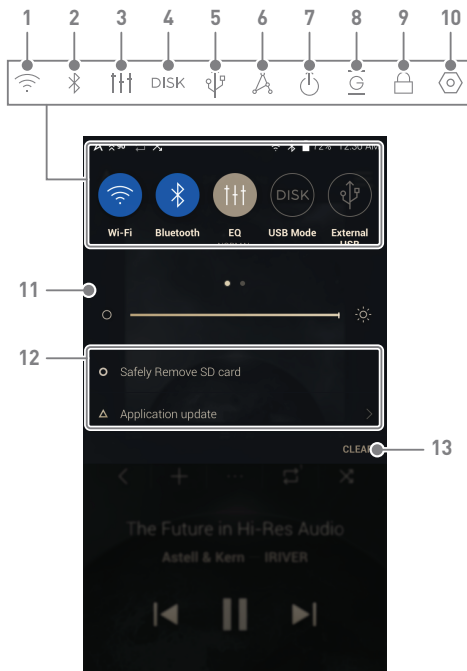
Home Screen



1	 Menu	Displays the Main Menu.
2	 Details	Displays current song information.
3	 Song Progress	Indicates song duration.
4	 Recent Menu List	Go to the last displayed menu list.
5	 Add to Playlist	Add the current song to a playlist.
6	 Title	Song title information. File name is displayed when the title is unavailable.
7	 Artist/Album	Displays the artist and album info.

8	 Previous/ Rewind	Short press: Play the previous song or restart the current song. Press and hold: Rewind the current song.
9	 Playlist	Display current playlist.
10	Format Information	Displays the bit rate and sampling frequency data.
11	Album Cover	Displays album cover of current song. Tap image to view the song lyrics.
12	Now Playing Song Count	Displays the current song number playing/ total number of songs in Now Playing.
13	Playback Progress Bar	Shows the current track playback progress. Drag the Playback Progress Bar to move to the desired track time.
14	Song Duration	Indicates the song's total duration. Press to switch from elapsed time to remaining time.
15	 Shuffle Mode	Press [] to set track sequence for playback.  : Shuffle mode on.  : Shuffle mode off.
16	 Repeat Mode	Press [] to set the Repeat mode.  : Repeat entire playlist.  : Repeat current track.  : Repeat mode off.
17	 Play/Pause	Play or pause the current song.
18	 Next/FF	Short press: Play the next song. Press and hold: Fast-forward the current song.
19	 Back button	Press the floating back button to return to a previous menu/screen.

Notifi- cation Bar



1		Wi-Fi	Press [] to turn Wi-Fi on/off.
2		Bluetooth	Press [] to turn Bluetooth on/off.
3		EQ	Press [] to turn the EQ on/off. The most recent EQ settings are applied by default.
4	DISK	Computer Connection Mode	Select the mode to use when connected to a computer. DAC : Listen to music on a connected computer through the device. [Default] DISK : Enables transfer of media files.
5		USB Audio	After connecting the device to a portable USB DAC, press [] to connect or disconnect the device.
		CD Ripping	Turn CD ripping function on/off.
6		AK CONNECT	Press [] to turn AK Connect on/off.
7		Line-out	Press [] to turn line-out on/off.
8		Gapless Playback	Press [] to turn Gapless Playback on/off.
9		Wheel Lock	Press [] to turn Wheel lock on/off. When turned on, the volume wheel will be disabled when the screen is locked.

10	 Settings	Press [] to display the full settings menu.
11	Brightness	Use the adjustment bar to control the display brightness.
12	Notifications Display	Device notifications are displayed in this area.
13	Clear Notifications	Clear notifications.



Long-press an icon [ /  /  /  / ] to navigate to the corresponding full settings menu screen.