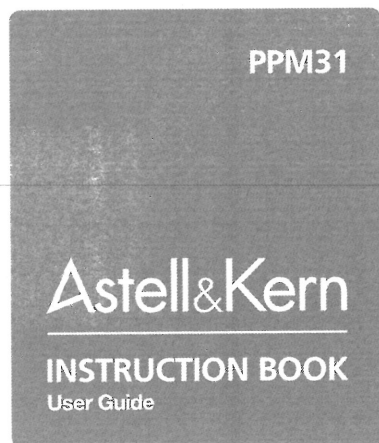




IRIVER

CONTENTS

Getting Started _01

Package Contents	02
PPM31 at a Glance	03
Power Management	04
Connections	06
Firmware Upgrade	11

Using the Device _02

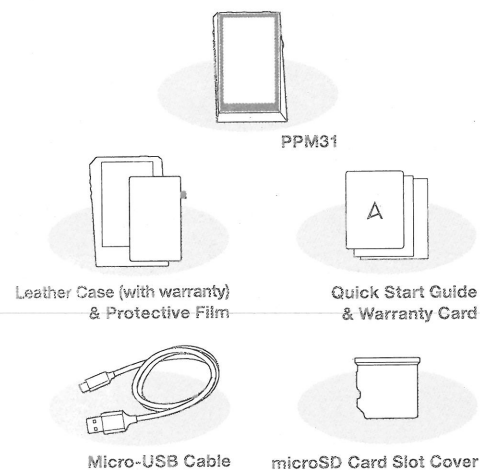
Basic Operations	12
Home Screen	14
Notification Bar	15
Store	18
AK Connect	19
Listening to Music	25
Playlist Management	31
USB DAC Installation	34
CD Ripping	35
Using Bluetooth	37
Settings	39
Connecting to a Wireless Network	44
Equalizer Setup	45

Miscellaneous _03

Safety Precautions	48
Troubleshooting	49
Copyright	51
Certifications	51
Specifications	52
Registered Trademarks	53
Disclaimers	53
Technical Support	54

Package Contents

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



Leather Case & Protective Film: Protect the device and its screen. The warranty for the leather case guarantees the quality of the leather.

Micro-USB Cable: Connect the device to a computer or charge the device.

Quick Start Guide: Basic overview of device functionality.

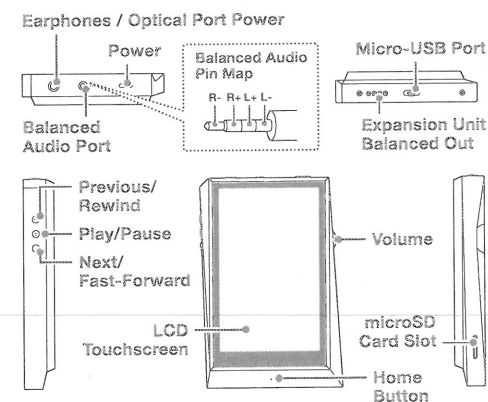
Warranty Card: The warranty card is required for customer and technical support. Do not misplace the card.

User Guide: The User Guide can be downloaded from the Astell&Kern website. [<http://www.astellinkern.com/> > Support > Download].

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

PPM31 at a Glance

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



Earphones / Optical Port: Output sound to connected earphones. Music can be played back on a S/PDIF-capable external device by using an optical cable.

Power: Turn the screen on and off.

Long press - Turn the device on and off.

Balanced Out: Output sound to earphones or headphones that support balanced audio connections. Connect to an external audio device by using both the earphone port (ground) and balanced audio port (LR) in conjunction.

Micro-USB Port: Connect to a computer or recharge the device.

Expansion Unit Balanced Out: Output sound to an expansion device that supports balanced audio connections.

Previous/Rewind: Play the previous song or restart the song.
Long press - Rewind.

User Guide

Play/Pause: Play or Pause a song.

Long press - Show the playback screen.

Next/Fast-Forward: Skip to the next song.

Long press: Fast-forward.

LCD Touchscreen: Display with touch control.

Volume: Control the volume by turning the wheel.

microSD Card Slot: Insert a microSD card and access its files.

Home Button: Show the home screen.

Power Management

Turn On/Off

1. Long-press the [] button to turn on the device.
2. While the device is on, long-press the [] button to display a shutdown confirmation message.
3. Press [Confirm] to turn off the device.

 This device has an automatic shutdown feature to reduce battery consumption. The device will turn off after a defined period if there is no user input. [ - Power Saving - Automatic Shutdown] (See p. 42)

Turn the Screen On/Off

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

 This device has an automatic timeout feature to reduce battery consumption. The screen will turn off after a defined period of time if there is no user input. [ - Power Saving - Screen Timeout] (See p. 42)

User Guide

Reset Function

1. In cases of unexpected device failure or freeze, press the [] button for 12 seconds to force a shutdown. The device can be restarted after a shutdown. The device can be restarted after a shutdown.

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

Charging

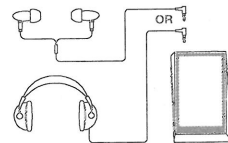
1. Turn on the computer.
2. The device will charge automatically when connected to a computer via the micro-USB cable.

 When charging via PC connection, the charging time may vary depending on whether the device is turned on or off. The maximum charge time with a 5V 2A charging adapter is 4 hours (Fully discharged battery, power off). The device will not charge normally when using a fast-charge adapter that supports 5V and 9V together. Doing so may cause damage to the device. If the device is on and/or being used while charging, the charge time may be longer or the battery may not fully charge. Charging with the device turned off is recommended. The device may not charge if the PC or USB connection goes into standby or sleep mode. The device may charge slowly or not charge at all in extreme temperatures. Charging in a room-temperature setting is recommended. The built-in battery will gradually lose capacity over time according to the number of charges/discharges. Be sure to use a high-powered USB 2.0 port. A low-powered USB port (e.g. keyboard or USB hub without a dedicated power supply) will increase the charging time. Do not use any micro-USB cable other than the one supplied with the device. Doing so may cause a malfunction.

Connections

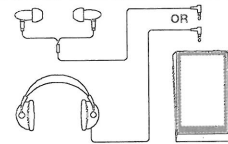
Earphones/Headphones

1. Connect earphones or headphones to the earphones port.



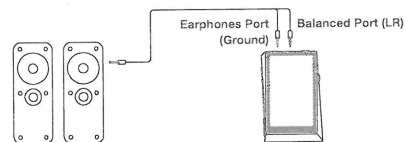
Balanced Earphones/Headphones

1. Connect supported earphones or headphones to the balanced port.



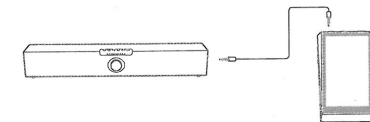
Balanced Audio Device

1. Connect to an external audio device by using the Earphones port and Balanced port in conjunction.



Optical Out

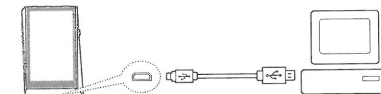
1. Music can be played back on a S/PDIF-capable external audio device by using an optical cable.



! DSD format is converted to PCM when using Optical Out. The volume will be fixed at the maximum level.

Connecting to a Computer

1. Turn on the device and your PC.
2. Connect the device to your PC as a standard USB device by using a micro-USB cable. [- Connect USB]
 - Media Device (USB Drive): Transfer files from a PC to the device.
 - DAC input: Listen to music located on a PC through the device. (See p. 34)



! Mac users need to download and install the MTP program from the Astell&Kern website. [<http://www.astellkern.com/Support/Download>] For an optimal connection, quit any unnecessary programs before connecting the device to the computer. Only use the micro-USB cable supplied with the device. Doing so may cause a malfunction.

User Guide

Windows XP users require Service Pack 2 and Windows Media Player 10 to be installed for the computer to recognize the USB device.
Download necessary Service Packs and Windows Media Player from the Microsoft website. <http://www.microsoft.com>

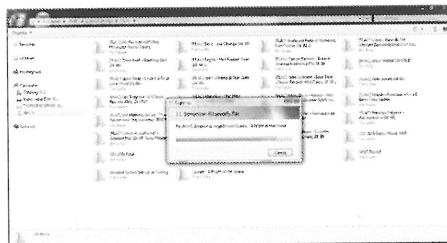
Disconnecting from the Computer

1. Verify that all operations are completed before attempting to disconnect the device from the computer.

! Disconnecting the device from the computer during an operation (e.g. file transfer) may corrupt data on the device.

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 USB device.

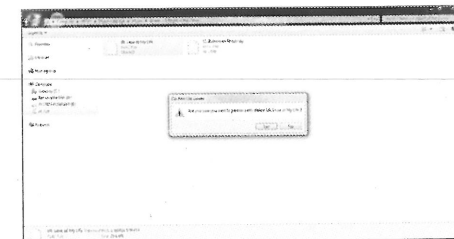


User Guide

! Make sure that the micro-USB cable is securely connected. Note that removing the micro-USB cable or turning off the device or computer during a file transfer may corrupt data on the device. File transfer speeds may be affected depending on the computer and/or OS environment.

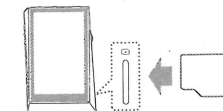
Delete Files/Folders on the Device

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



Insert/Remove a microSD Card

1. Refer to the diagram and gently insert a microSD card into the microSD card slot.



User Guide

2. To safely remove a microSD card, select [Safely remove SD card] from the Notification Bar or select [Unmount SD card] from [ⓘ - System Information].
3. Gently press the microSD card to release it from the slot.



Recommended microSD Cards

Brand : SanDisk, Transcend

- !** Maximum supported microSD card capacity: 128GB
- Notes on inserting 128GB microSD card.**
- Do not force the microSD card into the slot. Doing so may cause damage to the device and/or microSD card.
 - Do not repeatedly insert/remove the microSD card.
 - If the microSD card is improperly inserted, it may become immovable or cause damage to the device.
- Notes on removing a microSD card**
- Be sure to safely unmount and remove the microSD card from the device. Not following the proper procedure may corrupt data and cause serious damage to the system.
 - Do not remove the microSD card while it is in use. Doing so may cause data corruption/deletion, malfunction, and damage to the microSD card.
- Miscellaneous**
- If the device is unable to recognize the microSD card and/or malfunctions, format the memory card before use. We recommend using the FAT32 format.
 - Using microSD cards other than the recommended brands may cause device malfunction.
 - A microSD card is not included with this device. Please purchase separately.

User Guide

Firmware Upgrade

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

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

! Refer to page 44 of the manual for more information on connecting to a wireless network.
The firmware upgrade may not initialize if the battery level is too low. (A minimum battery level of 50% is required.)
Moving to another screen during a file download will cancel the download.
Do not disconnect from the wireless network while downloading a firmware upgrade. 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 upgrade, download the firmware update again through [ⓘ - Update - System Update].

Basic Operations

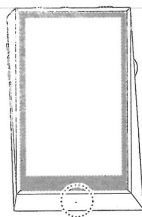
LCD Touchscreen

1. This device features an LCD touchscreen that allows you to perform operations by touch. Interact with the device by touching the screen to access various features.

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

Return to the Home Screen

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



Home Screen

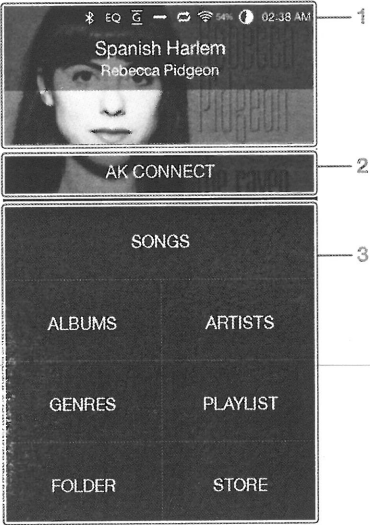
! The [Home] button on the AK380 is pressure-sensitive and can be operated with light pressure.

Navigating Up/Down in a List

1. Scroll through the list by dragging the list screen [up] and [down].



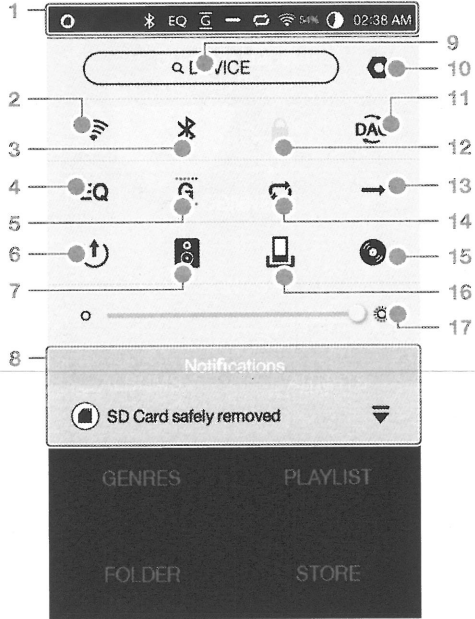
Home
Screen



- | | | |
|---|-----------------------|---|
| 1 | Current Song | Currently playing song information. |
| 2 | AK CONNECT | Launches AK Connect. |
| 3 | Search Options | View the list of songs by different search options. |

 The search options can be long-pressed and dragged to change their locations.

Notification
Bar



User Guide

1	Notification Bar	Expand or collapse the notification bar by dragging the bar down or up, respectively.
2	Wi-Fi	Press [] to turn Wi-Fi on or off.
3	Bluetooth	Press [] to turn Bluetooth on or off.
4	EQ	Press [] to turn the EQ on or off. The most recent EQ settings are applied by default.
5	Gapless Playback	Press [] to turn Gapless Playback on or off.
6	Line Out	Turn Line Out on or off.
7	Wi-Fi Speakers	Turn Wi-Fi speakers on or off. (Must be on the same network.) (The icon will become enabled when AK Connect is turned on.)
8	Notifications Display	Notification contents are displayed in this area.
9	File Search	Enter keywords to display a list of items containing the search terms.
10	Settings	Displays a list of settings.

User Guide

11	PC Connection Mode	Select the appropriate mode when connected to a computer. :USB drive mode for transferring media files. :Listen to music located on a PC through the device.
12	Screen Lock	Press [] to turn the screen lock on or off. The volume wheel is disabled when the screen is locked.
13	Play Mode	Press [] to cycle through different play modes. :Sequential playback. :Shuffle playback.
14	Repeat Mode	Press [] to cycle through different Repeat modes. :Repeat the entire playlist. :Repeat the current song. :Disable repeat.
15	Ripper Power	Turn the CD Ripper on or off. (Enabled when connected to the AK CD Ripper.)
16	Cradle	Output sound through the cradle's Balanced Out port. (Enabled when connected to the AK Cradle.)
17	Screen Brightness	Use the adjustment bar to control the display brightness.

! Long-press [/ /] to move to the corresponding screen.

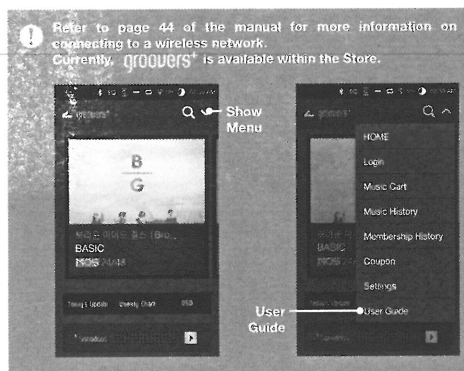
User Guide

Purchasing Music from a Store

Conveniently purchase music from the Store when connected to a wireless network.

Purchasing Music

1. Connect to a wireless network.
2. Select [Store] from the home screen.
3. Select the desired store.
4. Check the user guide or help menu within each store for detailed information.
 - Select [Menu > User Guide] within the Groovers Store for instructions.



User Guide

AK CONNECT

The PPM31 can access and play back music files stored on a computer on the same network as well as output sound through Astell&Kern speakers.

MQS Streaming Server Installation

1. Visit the Astell&Kern website and download the server installer that corresponds to your operating system. [http://www.astellinkern.com > Support > Download].
2. Run the downloaded installer and follow the on-screen instructions.
3. Check the User Guide within the program for detailed information on using the MQS Streaming Server.

System Requirements
PC Minimum System Requirements

- OS : Windows XP, Windows 7/8 (32 & 64-bit)

Mac Minimum System Requirements

- OS X 10.7 (Lion) or later

Connecting to the AK Connect Server

1. Turn on the server and connect to the same network as the PPM31.
 - Run the MQS Streaming Server on your computer.
2. Turn on [AK Connect] from the device settings.
3. Press [AK Connect] from the home screen.

