

Removing a Song from a Playlist

1. Press [Playlists] to display a list of playlists.
2. Select the desired playlist, and then press [] at the top of the screen.
3. Select the desired song, and then press [] to remove the song from the selected playlist.



Editing the Playlist Order

1. Press [] next to the playlist to modify the playlist order.



Playing a Playlist

1. Press [Playlists] to display a list of playlists, and then press [] at the top of the screen.
2. Select the desired playlist for playback.
3. Press [] at the top of the screen to add the selected playlist after the current/last song of the current playlist.



Renaming a Playlist

1. Press [Playlists] to display a list of playlists, and then press [] at the top of the screen.
2. Select a playlist to be renamed.
3. Press [] at the top of the screen to display a rename window.
4. Enter a name for the playlist, and then press [Rename] to save the playlist under a new name.



Deleting a Playlist

1. Press [Playlists] to display a list of playlists, and then press [] at the top of the screen.
2. Select the playlist to be deleted.
3. Press [] at the top of the screen to delete the selected playlist.



USB DAC Installation

The USB DAC functionality allows the PPM31 to be recognized as a sound card on a computer. Music from the computer is played through the device's earphones port for an enhanced listening experience.

USB DAC Specifications


- Supported OS
 - Windows XP (32-bit) / Windows 7 (32/64-bit) / Windows 8 (32/64-bit)
- USB DAC Support Specifications
 - Supported Formats: WAV, FLAC, WMA, MP3, OGG, APE (Normal, High, Fast), AAC, ALAC, AIFF, DFF, DSF
 - Sample Rate: 44.1 kHz – 96 kHz
 - Bit Rate: 16-bit/24-bit
- Control the volume with the PPM31's volume wheel.

i Some will not play back for files that exceed the supported formats.
Volume control is unavailable when the LCD screen is turned off during USB DAC connection.
The Previous, Play, and Next buttons are unavailable during USB DAC connection.
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.
Optical output (S/PDIF) is unavailable during USB DAC connection.
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.

CD Ripping

Connect the AK Ripper (sold separately) to rip CDs.

Turning the AK Ripper On/Off

1. Set [ - CD Ripping] to On.
2. After connecting the product, pull down the notification bar and press the CD ripping icon to use the AK Ripper.
3. While the AK Ripper is turned on, pull down the notification bar and press the CD ripping icon to stop the AK Ripper operation.

Automatic CD Ripping

1. Connect the AK Ripper and insert a CD.
2. The metadata (ID3 tags) for the inserted CD will be retrieved via Gracenote.
3. CD ripping will begin automatically after the metadata has been retrieved.
4. When finished, press [OK] on the results prompt to complete automatic CD ripping.

Manual CD Ripping

1. When the AK Ripper is connected and a CD is inserted, the [CD Ripping] menu will be activated on the home screen.
2. Press the [CD Ripping] menu and select the desired file format (FLAC or WAV).
3. The Gracenote database will be searched for matching CD metadata after the file format is selected.
4. When the database search is complete, press [Start] to begin CD ripping.
5. Rip only selected songs.

CD Ripping Results

- ● : Indicates that CD ripping is complete, or that although an error occurred, CD ripping was successfully completed via error correction.
- X : Indicates that the song currently being ripped can be canceled via user input.
- △ : Indicates that CD ripping failed due to a scratch on the CD or other similar reasons. Also indicates that CD ripping was canceled due to user interruption.

! To search the Gracenote database, the PPM31 must be connected to the Internet via Wi-Fi. The 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 may not 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 will be disabled during CD ripping, and tracks that have been ripped will not be available for playback until the entire CD has been ripped. You can set the desired file format and ripping speed from the [CD Ripping] menu. Several attempts at correction will be made for data with errors when the feature is enabled under [CD Ripping - Error Correction]. Please note that the CD ripping speed will be affected when this feature is enabled.

Using Bluetooth

Connect a Bluetooth device to listen to music wirelessly.

Turning Bluetooth On/Off

A Bluetooth device must be paired with the PPM31 prior to use. Refer to the Bluetooth device's instruction manual for details.

1. Select [Bluetooth] from the home screen, or select [On/Off] from [Bluetooth].



Bluetooth Pairing

1. Select the appropriate Bluetooth device from the list of available devices.

! A Bluetooth device must be paired with the PPM31 prior to use. Refer to the Bluetooth device's instruction manual for details.

Terminating a Bluetooth Connection

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 be redirected to the settings screen.
2. Select [Remove Pairing] to complete the process.



Bluetooth Support Specifications

- Profile: A2DP
- Device performance may be affected during Hi-Fi playback. (48 kHz or lower is recommended.)
- DSD playback is unavailable via Bluetooth.
- Do not turn off the device while connected to Bluetooth.
- Power cycle the Bluetooth device in case of malfunction.
- 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 are not supported.
- 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.)

Settings


Set up the device according to the user's needs. The settings menu may vary depending on the firmware version.

Setup

1. Select [] from the home screen notification bar.
2. Select the desired item for setup.


Wi-Fi

- Change wireless network settings and turn Wi-Fi on or off.

 Refer to page 44 of the manual for more information on setting a wireless network.

Bluetooth

- Connect a Bluetooth device to listen to music wirelessly.

 Refer to [Using Bluetooth] on page 37 of the manual for more information on setting up a Bluetooth connection.

AK CONNECT

- Set whether to use AK Connect.

Equalizer

- Set the equalizer according to the user's preferences.
 - Pro EQ: EQ Preset recommended by professionals.
 - User EQ: Adjust the frequencies according to the user's preferences.

! Supported Formats for EQ: PCM (8 - 192 kHz (8/16/24-bit)) DSD (Equalizer disabled during 32-bit playback)
Using the equalizer may negatively affect device performance. Refer to pages 45 - 47 of the manual for more information on using the equalizer.

Gapless Playback

- Play the next song without any interruptions/silence.
 - Gapless playback is only supported between two files with identical bit rates, sample rates, and channels.

Line Out

- Turn Line Out on or off.
 - Enabling Line Out and pressing [Line Out] on the volume control window will lock the volume level at maximum.

! Do not use earphones with the Line Out feature enabled. Doing so may cause permanent hearing loss.

Left-Right Balance

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

Amp

- Set the amplification level when connected to the AK Amp.

CD Ripping

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

Screen Brightness

- Adjust screen brightness settings.

Theme

- Change the theme.

Date & Time

- Set the current date and time.

Device Name

- Set the name of the device.
 - The maximum name length is 30 characters.

Language

- Select the display language.
 - Supported languages: English, Korean, Japanese, Chinese (Simplified/Traditional), French, Russian, German

Keyboard

- Select the keyboard language.
 - Supported languages: English, Korean, Japanese, Chinese (Simplified/Traditional), Russian

Power


- Automatic Shutdown: The device will turn off after a defined period if there is no user input.
- Screen Timeout: The screen will turn off after a defined period when there is no user input.
- Sleep Timer: Music playback will stop, and the device will turn off after a defined period.

USB Connection

- Media Device (USB Drive): Connect to a computer to transfer media files.
- DAC input: Listen to music located on a PC through the device.

Download

- Select a folder for downloaded files.


 The default folder is set when using AK Connect to download files. 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 system when a new version is found.
- Application Update: Update the default applications (including the Store) when new versions are found.

System Information

- System Information: View model number, firmware version, and data storage information. The microSD card can be mounted/dismounted, and data can be deleted.

 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 from a computer, be sure to select the FAT32 system.

System Restore

- Database Initialization: Reset the internal database. The database initialization time may vary depending on the number of files stored on the device.
- Default Settings: Revert all user settings back to their original settings.
- Factory Reset: Delete all user data and restore the device to its original factory settings.

Connecting to a Wireless Network

Connecting to a Network

1. Long-press [Wi-Fi] from the Notification Bar or select [Wi-Fi] to display a list of access points (AP).



2. Select the desired AP to connect to the wireless network.
 - Additional information (encryption key, index, etc.) may be required depending on the network settings.



3. Long-press the network name and select [Network Settings] to edit specific network settings.



! Networks requiring browser or other additional certifications are not supported. Channels 1 through 11 are supported.

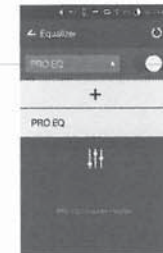
Equalizer Setup

Equalizer Setup

1. Long-press [EQ] from the Notification Bar, or turn on the feature from [Equalizer].



2. Press [Pro EQ] at the upper-left corner of the screen and select [+].



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



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



- Press [PEQ] at the lower-right corner of the screen to display the PEQ settings screen. The frequency, gain, and Q values can be adjusted according to the user's preferences.



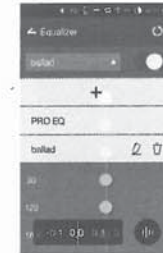
Resetting the Equalizer

- Select the desired EQ setting and press [U] at the bottom of the screen to revert the EQ to its default settings.



Deleting an Equalizer

- Press [Pro EQ] at the upper-left corner of the screen.
- Press [U] next to the desired item to delete the selected equalizer.



Renaming an Equalizer

- Press [Pro EQ] at the upper-left corner of the screen.
- Press [Q] next to the desired item and enter a new name for the selected equalizer.
- Press [Rename] to apply the changes.



Safety Precautions

Device

- When a plug is inserted into the earphones, balanced, or USB port, do not apply any force or shock to the plug.
- Do not insert any metal objects (coins, hairpins, etc.) or flammable debris into the device.
- Do not place heavy objects on the device.
- In case the device gets wet (rain, water, chemicals, medicine, cosmetics, sweat, moisture, etc.), do not power on the device and allow it to dry thoroughly. Contact the nearest iriver Customer Support Center. (Malfunctions due to exposure to liquids will be repaired for a fee regardless of the warranty period and such damage may not be repairable.)
- Avoid exposing the device to direct sunlight or extreme temperatures (-5°C - 40°C; 23°F - 104°F) 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 excess moisture, dust, or smoke.
- Do not use for extended period on blankets, electric blankets, or carpet.
- Do not place near a fire or in a microwave.
- Never attempt to 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.).
- Never use chemicals or cleaning products on the device since they can damage the paint and surface coating.
- Avoid dropping or subjecting the device to a strong impact (excessive vibration, etc.).
- Do not press multiple buttons simultaneously.
- Do not disconnect the micro-USB cable during data transfer.
- When connecting the micro-USB cable, use a USB port on the back of the PC. Connecting to a defective or damaged USB port 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 earphones port.


Other

- Do not use earphones/headphones or operate the product 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 accidents.
- Always be aware of your surroundings when using the device while moving.
- Avoid using the device during thunderstorms to reduce the possibility of electric shock.
- If there is a ringing in the ears during or immediately after use, reduce the volume or discontinue using the product and obtain medical advice.
- Do not listen to music at excessive volumes for extended periods.
- Do not use the earphones/headphones at excessive volumes.
- Be careful not to get the earphones/headphones caught in other objects.
- Do not sleep with earphones in your ears or leave them in for extended periods.

Trouble- shooting

Check for solutions to common problems.

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 and try again. (See p. 5)

2. The device will not charge when connected to a computer via USB cable.
 - Use a USB port on the back of the computer, and check that the USB port is functioning properly.
 - Check that the USB cable is connected correctly.
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 that the USB cable is connected correctly.
 - For Windows XP, verify that Service Pack 2 (or higher) and Windows Media Player 10 (or higher) are installed.
 - 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 [ - Power Saving - 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 debris isn't obstructing the port connection.
 - Check if the music file is corrupted.
 - Verify that the audio settings have been properly set. (Balanced out, line out, etc.)
7. A file does not play, or the product is unstable when a certain file is used.
 - The following may occur due to the condition of the file:
 - Playback is unstable or difficult.
 - The product may not work normally.
 - The file may sound different from a computer.
 - There may be a difference in the performance of playback or other functions.
 - There may be differences in the playable specs.
 - A file conversion or use of a different file is recommended.

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The PPM31 was designed and audio-tuned under the advisement of MSD.

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 and all other areas.

 **FCCID: QDMPPM31**
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.

Specifications

General Specifications	
Model	PPM31
Body Color	TBD
Body Material	Aluminum
Display	4-inch WVGA (480x800) Touch Screen
Supported Audio Formats	WAV, FLAC, WMA, MP3, OGG, APE (Normal, High, Fast), AAC, ALAC, AIFF, DFF, DSF
Sampling Rate	PCM: 8 kHz - 192 kHz (6/16/24-bits per sample) DSD: DSD64 (1-bit 2.8 MHz, Stereo) / DSD128 (1-bit 5.6 MHz), Stereo
Output Level	Unbalanced 2.2 VRMS / Balanced 2.3 VRMS (Condition: No Load)
DAC	AKM AK4490 x 2 (Dual DAC)
Decoding Input	Supports up to 24-bit / 192 kHz bit-to-bit decoding Type-B micro-USB Input (Charging & data transfer (PC & Mac)) / Connection Mode: MTP (Media Device)
Outputs	Phones (3.5 mm) / Optical Out (3.5 mm) / Balanced Out (2.5 mm, only 4-pole supported)
Wi-Fi	802.11 b/g/n (2.4 GHz)
Bluetooth	v4.0 (A2DP, AVRCP) APT-x
Dimensions	2.95 (75.15 mm)[W] x 4.42 (112.4 mm)[H] x 0.61 (16.45 mm)[D]
Weight	TBD
Feature Enhancements	Firmware Upgrade Supported (OTA)
Audio Specifications	
Frequency Response	±0.053dB (Condition: 20 Hz - 20 kHz) Unbalanced / ±0.053 dB (Condition: 20 Hz - 20 kHz) Balanced ±0.56 dB (Condition: 10 Hz - 70 kHz) Unbalanced / ±0.55 dB (Condition: 10 Hz - 70 kHz) Balanced
S/N	116 dB @ 1 kHz, Unbalanced / 117 dB @ 1 kHz, Balanced
Crosstalk	130 dB @ 1 kHz, Unbalanced / 135 dB @ 1 kHz, Balanced
THD+N	0.0008% @ 1 kHz, Unbalanced / 0.0007% @ 1 kHz, Balanced
SMPTE IMD	0.0007% 800 Hz 10 kHz (4:1) Unbalanced / 0.0008% 800 Hz 10 kHz (4:1) Balanced
Output Impedance	Balanced Out 2.5 mm (1 ohm) / Phones 3.5 mm (2 ohm)
Clock Jitter	30 ps (Typ.) / Reference Clock Jitter (VCXO Clock) 0.2 ps (Typ.)
Reference Clock Jitter	0.2ps (VCXO Clock)
Storage Capacity	
Built-in Memory	128GB[NAND]
External Memory	microSD (Max. 128 GB) x 1
Battery	
Capacity	3,400 mAh 3.7 V Li-Polymer Battery

Registered Trademarks

Windows 2000, Windows XP, Windows 7, Windows 8, and Windows Media Player are trademarks of Microsoft Corp.

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, Iriver Limited, is adding new complementary features and will continue to apply new technologies in the future. All specifications may be changed without prior notice. There is no warranty against data loss due to the use of this product.

We, IRIVER LIMITED., hereby declares that this Portable Music Player is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Body-worn Operation

This device was tested for typical body-worn operations. A minimum separation distance must be maintained between the user's body and the handset, including the antenna: 1 cm to comply with the RF exposure requirements in Europe. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

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."

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.