

SE300

Astell&Kern

INSTRUCTION BOOK

User Guide

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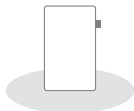
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Package Contents

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



SE300



Protective Film



microSD Card
Slot Cover



USB Type-C Cable



Quick Start Guide
& Warranty Card

Protective Film: Protect the device and its 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: Please use a separate conversion adapter when connecting to a PC that cannot connect Type C. (Conversion adapters are not included in the component.)

Quick Start Guide: Basic overview of device functionality.

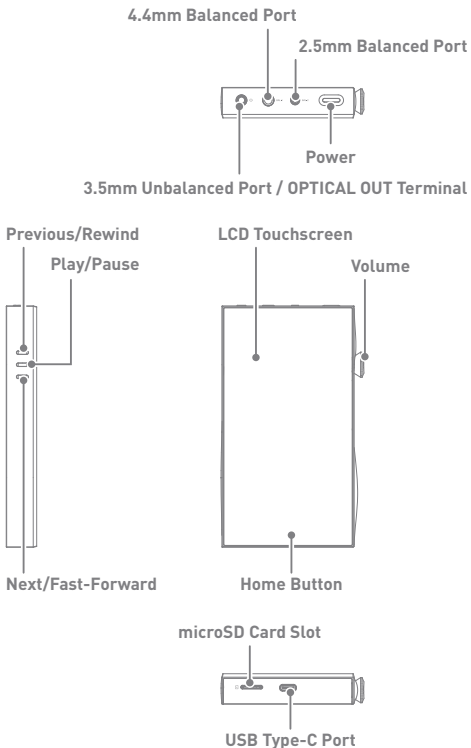
Warranty Card: Provides warranty details for your device. Maintain a copy of this card as it may be required for future technical support requests.

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.



4.4mm Balanced Port: BAL.1 - **4.4mm Balanced Port symbol.**

For audio output, connect earphones or headphones that utilize a 4.4mm jack.

2.5mm Balanced Port: BAL.2 - **2.5mm Balanced Port symbol.**

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

Power:  - **Power symbol.**

Short press - Turns the screen on or off.

Press and hold - Turns the device on or off.

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

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 a S/PDIF-capable external device via an optical cable.

Previous/Rewind:

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

Press and hold - Rewind the current song.

Play/Pause: Play or pause the current song.

LCD Touchscreen: Display screen with touch control features.

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.

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

Insert a microSD card to access its files.

USB Type-C Port: 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 56)

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 56)

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. 3.5 hours (Fully discharged, Power-off, 9V 1.67A adapter) / Normal charging: Approx. 5.5 hours (Fully discharged, Power-off, 5V 2A adapter)

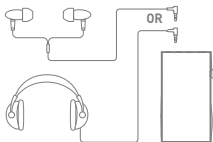
Please ensure that you use only adapters that have been safety-certified and are rated for 15 watts or lower.

The manufacturer shall not be responsible for problems caused by the use of adapters that do not adhere to the recommended specifications.

Connections

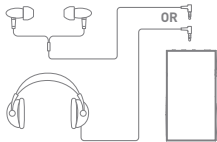
3.5mm Unbalanced Port

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



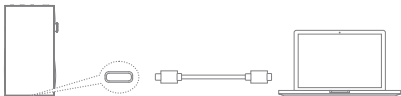
2.5/4.4mm Balanced Port

1. Connect earphones or headphones that support a 2.5mm or 4.4mm headphone jack to the 2.5mm or 4.4mm balanced port.



Connecting to a 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 42)



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.

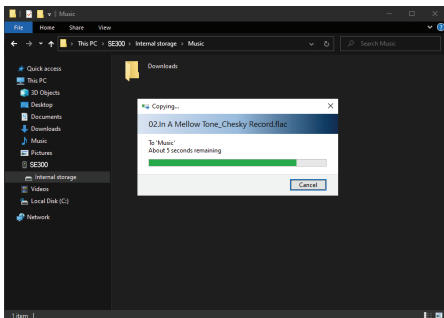
Use USB 2.0 only on Mac.

When a USB connection is established while playing a DSD or DXD file, a mode selection pop-up box will appear with the following options:

- External device connection: Connect the player to the computer to transfer files, USB DAC for audio playback or CD Ripper connection.
- Charge device: Charge 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 device folder.



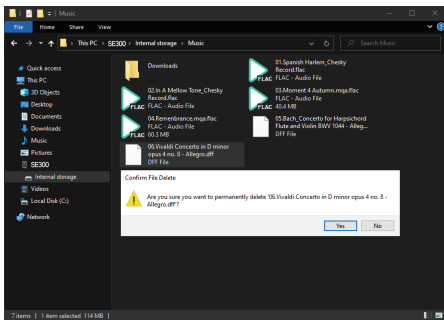
Ensure the USB Type-C cable is properly connected.

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

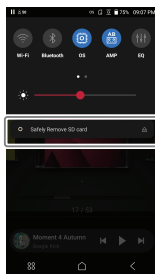
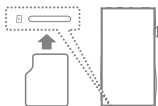
1. Disconnect the USB Type-C cable after the transfer between the device and computer is complete.



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

SAMSUNG, SANDISK



Maximum Capacity: 1TB

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 58.

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

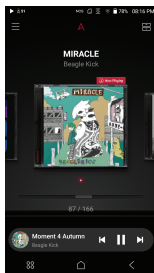
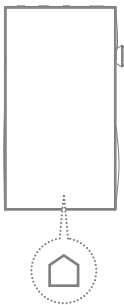
1. This device features an LCD touchscreen that allows you to perform operations by touch.
Use the touchscreen to access various features on the device.



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.

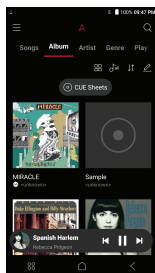
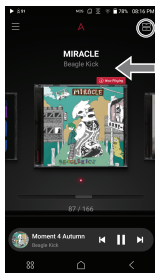


Home Screen

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.

Menu Category Screen

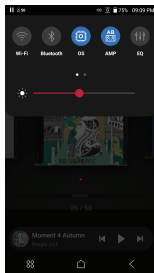
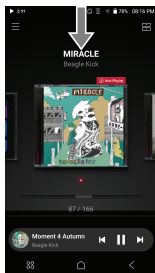
1. Swipe the screen in the [right → left] direction, or press [] in the upper right to move to the Menu Category Screen.



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.

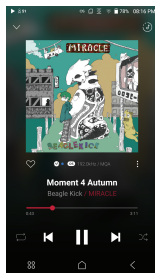
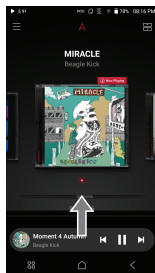
Notification Bar

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

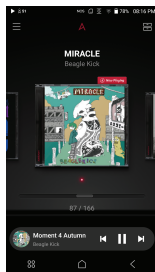
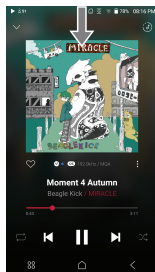


Mini Player Screen

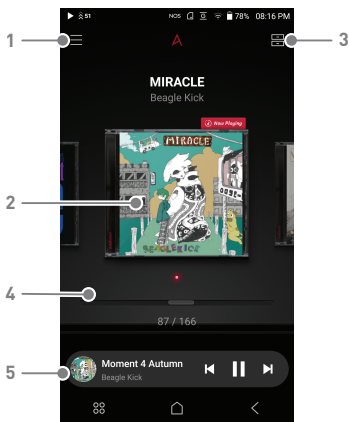
1. Swipe up or tap on the Mini Player Screen to expand to the Music Player Screen.



2. Swipe down or press [∨] in the upper left to collapse the Music Player Screen.

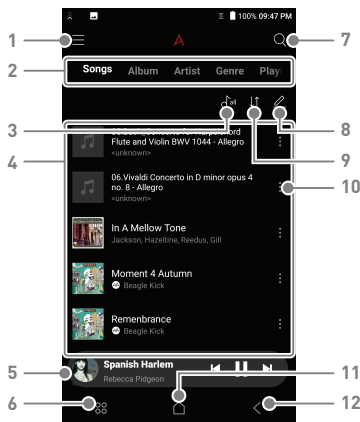





Home Screen














1		Menu	Go to the Main Menu.
2		Album Cover	Press on an album image to go to that album.
3		Menu Category	Press [] in the upper right to go to the menu category screen.
4		Album Seek Bar	Use the bottom bar to go to other albums.
5		Music Player Screen	Go to the playback screen by operating the Mini Player Screen.

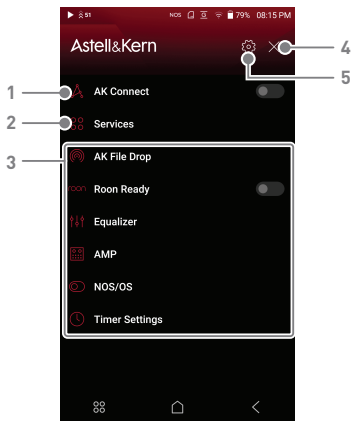
Menu Category Screen







1	 Menu	Go to the Main Menu.
2	Category	Swipe left and right to switch between categories.
2-1	 Home/Category Setting	Changes the order of the Home screen settings or menu categories.
3	 Play All	Play all songs in the selected category.
4	Music List	Display the playlist in the current category.
5	Music Player Screen	A mini player screen for the current song.

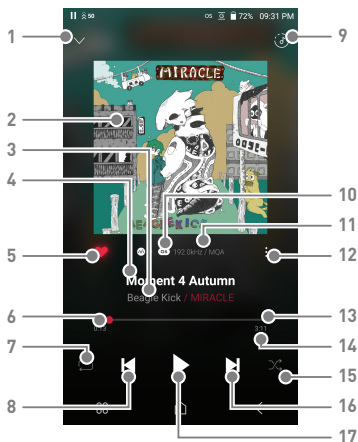
6		Services	View the service app list and install /run apps.
7		Search	Enter keywords to display a list of songs with the search terms in their names.
8		Edit Mode	Display the editing options for the playlist.
9		Sort	Set the sort options for the playlist.
10		More	Go to the More menu for the selected song. Different items are displayed depending on the selected category.  : Add the selected song to play next  : Add the selected song to play last  : Add the selected song to the playlist  : Delete the selected song
11		Home Screen	Go to the Home screen.
12		Previous Screen	Return to the previous screen.

Main Menu Screen






















- | | | |
|---|---|--|
| 1 |  AK CONNECT | Enable/disable AK Connect and set the library and speaker options. |
| 2 |  Services | View the service app list and install /run apps. |
| 3 | Key Settings | Set the EQ, Power, and more. |
| 4 |  Close Menu | Close the menu list and display the previous screen. |
| 5 |  Settings | Show various settings menus. |

Music Player Screen

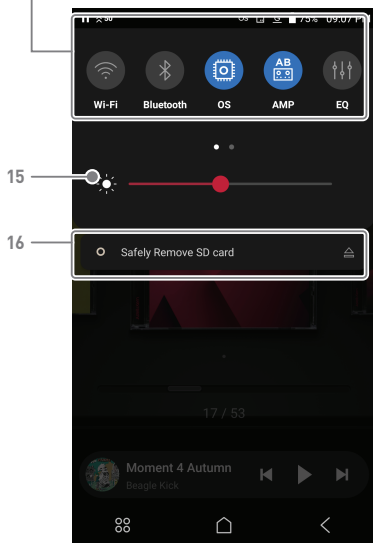
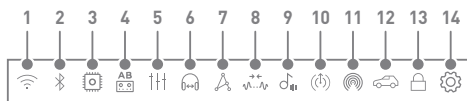





















1	∨ Previous	Return to the previous screen.
2	Album Cover	Displays album cover of current song. Tap image to view the song lyrics.
3	Artist	Displays the artist info.
4	Title	Song title information. File name is displayed when the title is unavailable.
5	♥ Favorites	Add or remove song from Favorites.
6	Current Play Time	Display the current play time.






7	 Repeat Mode	Press [] to set the Repeat mode.  : Repeat entire playlist.  : Repeat current track.  : Repeat mode off.
8	 Previous/ Rewind	Short press: Play the previous song or restart the current song. Press and hold: Rewind the current song.
9	 Now Playing	Display the current playlist.
10	Display NOS/OS mode	Displays the mode according to the R-2R DAC option selection.
11	Format Information	Displays the bit rate and sampling frequency data.
12	 More	Go to the More menu for the current song.  Add to Playlist: Add the current song to the playlist  Go to Album: Go to the album that contains the current song  Go to Artist: Go to the artist menu for the current song  Go to Folder: Go to the folder that contains the current song  File Info: Display current song information
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. |
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- | | | |
|-----------|---|--|
| 15 |  Shuffle Mode | Press [] to set track sequence for playback.
 : Shuffle mode on.
 : Shuffle mode off. |
|-----------|---|--|
-
- | | | |
|-----------|--|--|
| 16 |  Next/FF | Short press: Play the next song.
Press and hold: Fast-forward the current song. |
|-----------|--|--|
-
- | | | |
|-----------|---|---------------------------------|
| 17 |  Play/Pause | Play or pause the current song. |
|-----------|---|---------------------------------|
-

Notification Bar



1		Wi-Fi	Press [] to turn Wi-Fi on/off.
2		Bluetooth	Press [] to turn Bluetooth on/off.
3		Change NOS /OS mode	You can change the mode provided by the R-2R DAC option.
4		Change AMP Class	You can change the AMP class to A or AB.
5		EQ	Press [] to turn the EQ on/off. The most recent EQ settings are applied by default.
6		Crossfeed	Turn Crossfeed on or off and select the Crossfeed options.
7		AK CONNECT	Press [] to turn AK Connect on/off.
8		Gapless Playback	Press [] to turn Gapless Playback on/off.
9		ReplayGain	Press [] to turn ReplayGain on/off. When enabled, a uniform volume level will be applied.
10		Line-out	Press [()] to turn line-out on/off.
11		AK File Drop	Wirelessly upload or download files to and from devices on the same network [PC, tablet, smartphone, etc.] using the SE300 via an FTP program.
12		Car Mode	Press [] to turn Car Mode on/off.

- | | | | |
|----|---|------------------------------|---|
| 13 |  | Wheel Lock | Press [] to turn Wheel lock on/off. When turned on, the volume wheel will be disabled when the screen is locked. |
| 14 |  | Settings | Press [] to display the full settings menu. |
| 15 |  | Brightness | Use the adjustment bar to control the display brightness. |
| 16 | | Notifications Display | Device notifications are displayed in this area. |



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

Using Open APP Service

The Open APP Service enables the user to install specific APK music streaming apps to the device.

You can download the desired APK from the Service menu.



The source of the app you are trying to install is unknown. Be aware that if the app is installed, the device may be damaged and personal data compromised. Depending on the APP, some functions may not work.

Restrictions may apply to the use of the open app that can be installed and used for each product due to S/W version, etc. This is not a product issue, and cannot be a reason for refund or exchange.

If you install an app from an unknown source, despite this warning, the company is not responsible for any damages to the device and data resulting from the app's installation, and downloading and installing such apps may limit the scope of after-sales services provided under the manufacturer warranty.


For more information and full instructions on how to install music streaming services, please visit the Astell&Kern website [<http://www.astellkern.com> > Support > FAQ > Using Open APP Service].

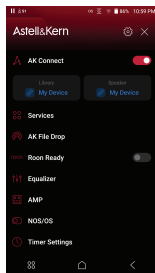
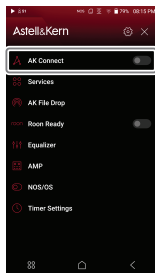
AK CONNECT

Access and play back music files stored on a computer, NAS drive or AK Device on the same network, as well as output sound through compatible speakers with AK Connect.

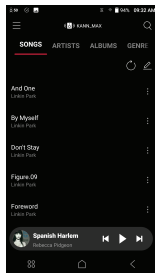
AK Connect is available on your AK device and also available as an app for your smartphone or tablet via Apple's App store or Google Play Store.

Using AK Connect to Link Music Libraries/Speakers

1. Turn on the music library device and/or speaker and AK player.
2. Connect all devices to the same Wi-Fi network.
3. Turn on the AK CONNECT feature by pressing and holding [] in the Notification Bar or selecting [Menu-Settings-AK CONNECT].
4. Select the library or speaker to use.
5. A list of libraries / speakers that are on the same network with the AK player will be displayed.
6. Select a library / speaker to connect.



7. After selecting a library / speaker, select a category from the menu to display the corresponding music list.

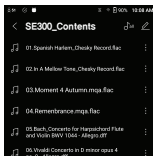


For Wi-Fi connections, see Page 58.



Tap the [<] button at the top left of the screen while connecting to the speaker to cancel the connection.

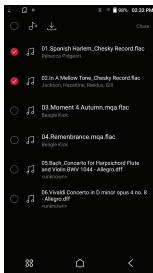
Streaming Music from Your Library

1. Select a category from the library menu to see your list of music.
2. Select a song to begin streaming.



Downloading Music from Your Library

1. Select a category from the library menu to see your list of music.
2. Press [] button at the upper-right corner of the music list.
3. Select the desired music and press [] to initiate the download.
 - The song will be saved in the location set in Settings > Download.
 - A message on the Notification Bar will indicate when the download is complete.



Tap [] to the right of the playlist to select the position in the queue for the selected song or download the song directly.

Depending on network conditions, song loading may be slow and streaming may stutter.

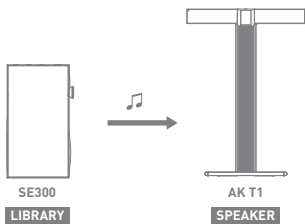
Using a library for other processes can slow down the response time of the library.

If you stream and download at the same time, it may slow the device's response time depending on the speed of the Wi-Fi network or server.

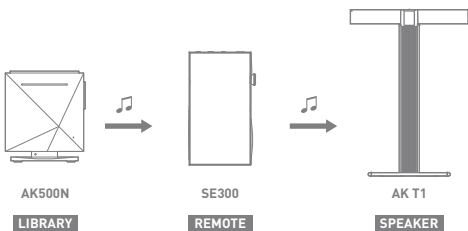
To stop a download in progress, tap the notification in the Notification Bar to go to the download screen. Then, select the items to pause or delete.

AK Connect Usage Examples

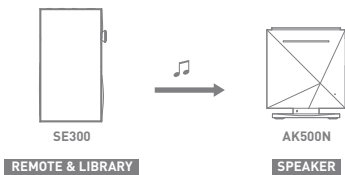
Case 1



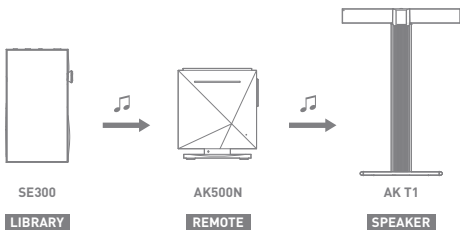
Case 2



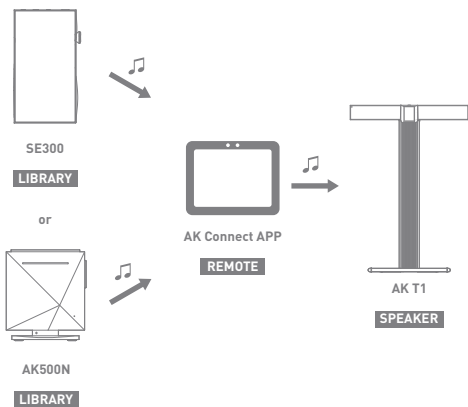
Case 3



Case 4

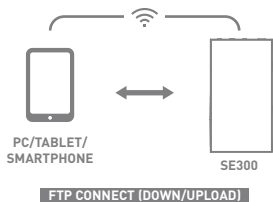


Case 5



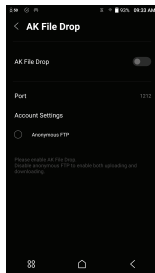
AK File Drop

Wirelessly upload or download files to and from devices on the same network (PC, tablet, smartphone, etc.) using the SE300 via an FTP program.

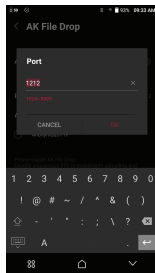


Using AK File Drop

1. Connect the SE300 and the desired device to the same network, and enable the AK File Drop feature on the SE300.



2. Enter the address, ID, and password displayed on the SE300 into the FTP program of the device to be connected.
3. Use the connected device to download or upload the desired file(s).



You can connect without logging in via anonymous FTP, but only downloads will be enabled.

AK File Drop can be added to the notification panel.

Listening to Music

Selecting Music

1. Select a category from the Menu Category Screen to display the corresponding music list.
2. Select a song from the list to begin playback.



Select [Folder] to search music by folder.







Continuous Playing Time: Approx. 12 hours (Music: FLAC, 16bit, 44.1kHz, Unbalanced, Volume 50, EQ Off, LCD off, OS On, Class AB AMP)

Supported Formats: PCM 8~384(8/16/24/32bit)


DSD[2.8/5.6/11.2MHz]

Listening to Music













- Turn the [Volume] wheel to adjust the volume.
- Press [||] during playback to pause and [▶] to resume playback.
- Press [◀/▶] during playback for the previous/next track.
- Press and hold [◀/▶] to rewind/fast-forward the track.
- Drag the indicator on the Playback Progress Bar to a desired location of a track during playback.
- Tap [🎵] in the upper right corner to display the current playlist.
- Tap the album art to view the lyrics.
- Tap [♥] to add the current song to Favorites.
- Press [↺] to set the Repeat mode.
 - ↺ : Repeat entire playlist.
 - ↺¹ : Repeat current track.
 - ☐ : Repeat mode off.
- Press [🔀] to set track sequence for playback.
 - 🔀 : Shuffle mode on.
 - ☐ : Shuffle mode off.

- Tap [] to enter the More menu for the current song.
 -  Add to Playlist: Add the current song to the playlist
 -  Go to Album: Go to the album that contains the current song
 -  Go to Artist: Go to the artist menu for the current song
 -  Go to Folder: Go to the folder that contains the current song
 -  File Info: Display current song information

Playlist Screen

- Tap [] to enter the More menu for the selected song. Different items are displayed depending on the selected category.

Adding to the current playlist

 -  : Add the selected song to play next
 -  : Add the selected song to play last
 -  : Add the selected song to the playlist
 -  : Delete the selected song
 - Tap [] to add all songs in the selected category to the playlist and play them immediately.
 - Tap [] to edit the sort order for the playlist.
 - Tap [] in the upper right corner to open the Edit mode. Different items are displayed depending on the selected category.
 -  : Select / deselect entire list
 -  : Add the selected list at the top / bottom / after the current song of Now Playing
 -  : Add selected list to a playlist
 -  : Delete selected list
 - [A] : Changing the playlist name (in the Play menu)
 -  : Changing the album image (in the CD library)
- Close: Exit Edit mode

- If you tap [🔍] in the [Songs/Albums/Artists] category and enter keywords in the input window, a list of items with the search terms in their names will be displayed.
 - In the search results screen, tap [✎] in the upper right corner to play a song or add it to the playlist.
- Select the [Folder] category to check the internal / external memory capacity and number of files / folders.
 - Tap [⋮] in the folder list to play/add to the bookmarks/copy/move/remove the selected folder.
 - Tap [⋮] in the file list to play/copy/move/edit tags for/remove the selected file.
 - You can also move/copy/remove files or folders by tapping [✎] at the top of the Folder category.
- In the [MQS] category, the MQS tab shows MQA files and PCM files of 24 bits or more, and the DSD tab shows DSD files.
 - MQS: MQA [44.1-768kHz{24bit}]
 - MQS: PCM [8-384kHz{24/32bit}]
 - DSD: DSD [2.8/5.6/11.2MHz]
- Tap [👤] in the [Artist] category to sort the list of artists/album artists.
- After selecting [ALBUM] or [CD LIBRARY] category, press [📊 / 📅 / 📁] at the top to sort by different viewing options.
- LED light indicates information of the music currently playing.
 - 16-bit: Red / 24-bit: Green / 32-bit: Blue / DSD: Purple
- Click [⚙️] to the right of the category to display the playback settings.

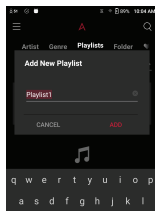
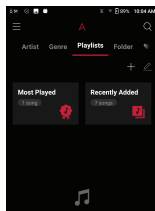


Turn LED Indicator ON/OFF in [Menu-Settings-LED Indicator].

Playlist Management

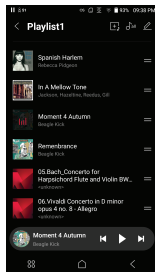
Creating a Playlist

1. From the Menu Category Screen, select the [Playlists] category to display the playlists.
2. Select [+] in the upper right corner of the screen.
3. Enter a name for the playlist and then press [Add] to create a new playlist.





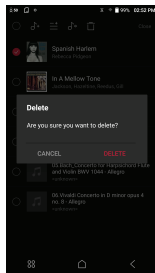
Adding a Song to a Playlist

1. Press [Playlists] to display the list of playlists.
2. Select a playlist and press [+] to display [Song/Recently Added List], and you can select the desired item.
3. Select a song and press [Complete] to add the song to the selected playlist.






Removing a Song from a Playlist

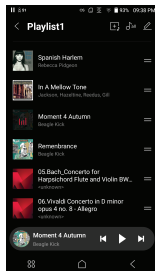
1. Press [Playlists] to display the list of playlists.
2. Select the playlist to edit.
3. Press [] at the top, then select the song you want to delete from the playlist.
4. Press [] on top of the screen.
5. Press [DELETE] to remove the song from the selected playlist.



This action will only remove the song from the selected playlist, not the memory.

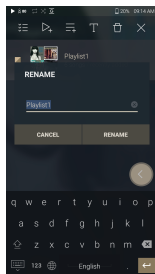
Playing a Playlist

1. Select the desired playlist for playback.
2. Press [] at the top right of the screen to play the entire playlist.
3. To playback part of the playlist or add it to a current Now Playing playlist, press [] at the top of the playlist, select the music you want to play and press [] to add the selected list to the top / bottom / after the current song of Now Playing.



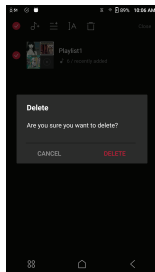
Renaming a Playlist

1. Press [Playlists] to view the playlists, then press [✎].
2. Select a playlist to be renamed.
3. Press [A] at the top of the screen to display the RENAME window.
4. Enter a name for the playlist and then press [RENAME] to confirm the change.




Deleting a Playlist

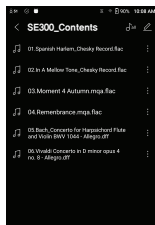
1. Press [Playlists] to view the playlists, then press [✎].
2. Select the playlist to be deleted.
3. Press [🗑] at the top of the screen.
4. Press [DELETE] to delete the selected playlist.




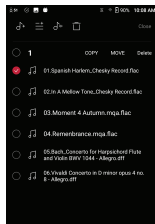
Replay Gain


Calibrate Loudness

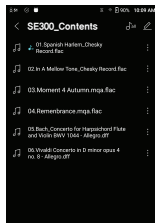
1. Select [] at the top of the music list.




2. Select the desired music from the music list, then press [] at the top to start the calibration process.



3. [] will be displayed for the songs that have been calibrated in the Music List.



4. ReplayGain can be turned on/off by clicking [] on the notification bar screen or in [Menu-Settings- ReplayGain].



You can calibrate the loudness in the Albums, Playlists, or Folders menu.

ReplayGain is only supported on 24bit/192kHz or lower formats.

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 10/11 (32/64bit)
 - MAC OS 10.7(Lion) or later
- USB DAC Support Specifications
 - Supported Formats: PCM [8~384kHz(8/16/24/32bit)]
 - DSD [2.8/5.6MHz]
- 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. 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 SE300\Internal_Storage\SE300_Content\Driver.

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. Check the connected messages in the Notifications Display.
3. After connection, the function is automatically enabled, allowing you to listen to music through the portable USB DAC's audio output jack.



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.

When a USB connection is established while playing a DSD or DXD file, a mode selection pop-up box will appear with the following options:

- External device connection: Connect the player to the computer to transfer files, USB DAC for audio playback or CD Ripper connection.
- Charge device: Charge the device.

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.
 - MQA : Optional activation of S/W MQA decoding.
Options may differ depending on the connected external device. Please refer to the specifications of each device.



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 the AK CD-RIPPER

1. Connecting the Type-C USB Port of SE300 and the AK CD ripper with a dedicated cable allows you to select the function you want to use on the Notifications Display.
2. When a function is automatically selected in the settings, the function will be executed.



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. When a USB connection is established while playing a DSD or DXD file, a mode selection pop-up box will appear with the following options:

- External device connection: Connect the player to the computer to transfer files, USB DAC for audio playback or CD Ripper connection.
- Charge device: Charge the device.

Automatically select the CD ripper function.

1. Select the function to automatically execute in [Menu-Settings-CD Ripper-Default run].
2. Select the [CD Player] / [CD Ripping] function.
3. When [Ask every time] is selected, the function selection popup will be displayed each time a CD is inserted.

CD Ripping

1. Select the ripping function in [Menu-Settings-CD Ripper-Default run-CD Ripping].
2. Connect the AK CD-Ripper to the device and select CD Ripping if not set as the default run function.
3. Insert a CD and metadata (ID3 tags) for the inserted CD will be retrieved via Gracenote if Wi-Fi is turned on.
4. CD ripping will begin automatically after the metadata has been downloaded.
5. When finished, press [OK] when prompted to complete the automatic CD ripping process.

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 select the ripping speed from the Menu > Settings > CD Ripper menu, and depending on the ripping speed selected, noise may occur when ripping is performed.

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 the device and select CD Player if not set as the default run function.
2. After inserting the CD, select the function you want to use in the Notifications Display.
3. When a function is automatically selected in the settings, the function will be executed.



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.

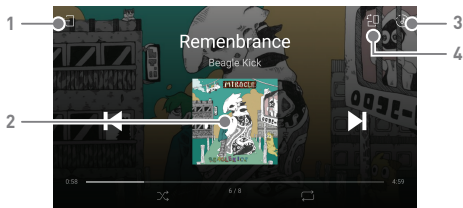
Depending on the OTG cable used, the connection may be unstable.





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



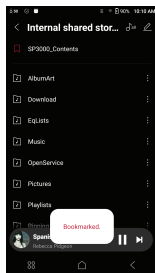
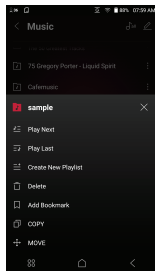
1	 Exit	Exit car mode.
2	 Play/Pause	Play or pause music.
3	 Playlist	Display current playlist.
4	 Screen Rotation	Switch the screen orientation to horizontal mode/vertical mode.

Bookmark Function

Allows user to select up to five folders for display on the top of the screen.

Setting a bookmark

1. Tap [:] to the right of the desired folder in the playlist to add a bookmark.



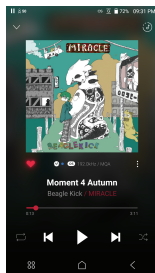
! Up to 5 bookmarks can be set.

Favorites Function

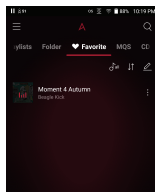
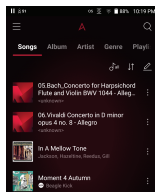
Favorites function allows users to mark a currently playing song as a favorite and add it to the Favorites folder.

Setting favorites

1. Tap [♥] on the playback screen to add the current song to Favorites or remove it from the list.




2. From the Home Screen, swipe [Right ↔ Left] direction to display the Menu Category Screen. Press [Favorites] to display the list of favorite songs.



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 58 for more information on connecting to Wi-Fi.

Bluetooth

- Configures two-way Bluetooth (RX/TX) to listen to music wirelessly using a device that supports Bluetooth.



See page 59 for more information on using Bluetooth.

Bluetooth Codec

- When Bluetooth is activated, the applicable codec can be set.



Reconnect the Bluetooth device to apply the changed settings. If a codec is not supported by the connected device, the player will automatically select another supported codec.

AK CONNECT

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

AK File Drop

- Enables or disables AK File Drop.

Roon Ready

- Enable Roon Ready support.

NOS/OS

- You can change the mode provided by the R-2R DAC option.



Non-Oversampling (NOS) is a mode where you can feel the unique characteristics of the R-2RDAC, and in OS (Oversampling) mode, you can hear softer sounds through a separate processing step.

AMP

- You can change the AMP class to A or AB.
- Change the AMP output to Normal / High.

Equalizer

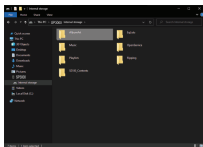
- Set the equalizer according to the user's preferences.
 - USER EQ: Adjust the frequencies according to the user's preferences.



Supported Formats for EQ: PCM [8~192kHz(8/16/24bit)]
When Wi-Fi is connected, other EQs can be added as default without prior notice.
Using the equalizer may negatively affect device performance.
See pages 62 - 63 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. EQ files can be found in the following folder
-> Internal Storage -> EqLists -> "User EQ.dat"



Shared User EQ files can only be shared between the same model. For example, User EQ of SE300 is not compatible with the SP2000. If the User EQ file is modified or changed externally it will no longer be recognized. The User EQ.dat will not display in the SE300, however it can be viewed when connected to the computer. Up to 20 User EQs can be displayed.

Crossfeed

- Makes listening through headphones sound like listening to speakers.
 - Adjusts detailed settings for Shelf Cutoff and Shelf Gain to your preferences.



Crossfeed supported formats : PCM [8-384kHz (8/16/24/32bit)]

Gapless

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

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.

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.

ReplayGain

- Set a consistent volume playback level between tracks.

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.

CD Ripper

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

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.



Bluetooth functionality cannot be used while USB audio is being used.

S/PDIF Conversion

- Turn S/PDIF function on/off and choose the output format.

Car Mode

- Turn car mode on/off.
- Set the default screen mode to landscape or portrait.

Volume Limit

- Displays a warning when the volume reaches a certain level and sets related options.

Screen Brightness

- Adjust screen brightness settings.

Double-Tap Screen to Wake

- Wake up the device by double-tapping the screen when off.

LED Light Settings

- Turn LED Indicator on/off and select light options.

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

- 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: After a set amount of time, playback will stop, and the device will turn off according to the time set in [Auto Power Off].

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.
- Automatic updates for Open APP applications are not available through the Settings Menu of the device.

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.

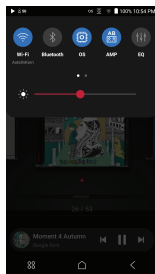
System Reset

- 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.

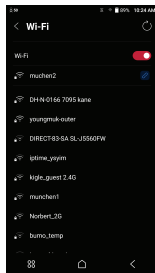
Connecting to Wi-Fi

Connecting to a Wi-Fi Network

1. Press and hold [Wi-Fi] 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 13 supported, except in the USA, channels 12 and 13 are disabled.


Using Bluetooth

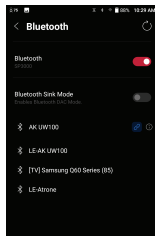
Configures two-way Bluetooth (RX/TX) to listen to music wirelessly using a device that supports Bluetooth.

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].

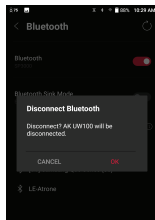


Bluetooth Pairing


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

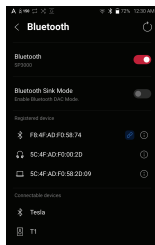
Disconnect a Bluetooth Device

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



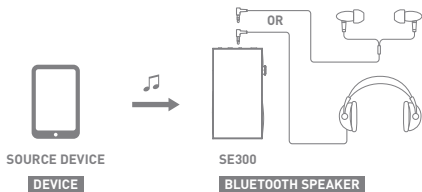
Removing a Bluetooth Pairing

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

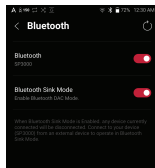


Using Bluetooth Sink Mode

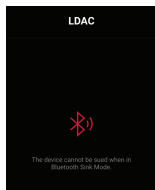
Similar to connecting to a Bluetooth speaker from a smartphone, music being played on an external device can be played on the SE300 by connecting to the SE300 from the external device.



1. Enable Bluetooth Sink Mode.
2. Search for and connect to the SE300 from the Bluetooth menu of the external device.



3. Music will be outputted through the SE300 when played on the connected device.



When Bluetooth Sink Mode is enabled, any device currently connected will be disconnected.

The Bluetooth codec can be set on the source device playing music. Bluetooth Support Specifications

- Profile: A2DP, AVRCP
- Supported Codecs: Qualcomm® aptX™ HD, LDAC, AAC, SBC
- 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.

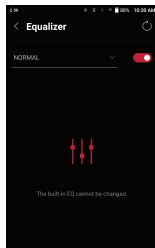
Malfunction, noise, and other undesirable effects may occur due to the device's battery level and the environment.

- 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.)

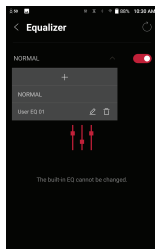
Equalizer Setup

Equalizer Setup

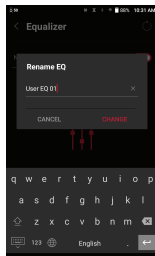
1. Press and hold [] on the Notification Bar or turn on [Menu - Settings - Equalizer].



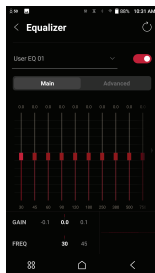
2. Press [Normal EQ], then select [+].



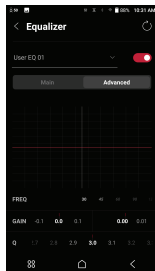
3. Enter a name for the custom EQ settings and select [SAVE].



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



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



Pre Cautions

Device

- When a plug is inserted into the unbalanced, 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°C - +40°C) 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.

Troubleshooting

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.

Check information about KC/FCC/CE TELEC certification at [settings - system information - regulations]



FCC ID: QDMPPR51

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."

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Adaptive

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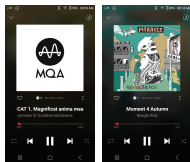
MQA (Master Quality Authenticated)

MQA 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 SE300 includes MQA technology, which enables you to play back MQA audio files and streams, delivering the sound of the original master recording.

The SE300 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.

MQA and the Sound Wave Device are registered trademarks of MQA Limited. © 2016



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.

Please ensure that you use only adapters that have been safety-certified and are rated for 15 watts or lower.

Specifications

General Specifications	
Model	SE300 (PPR51)
Body Color	Silver
Body Material	Aluminum and Stainless Steel
Display	5.46inch HD 1080 x 1920 touch screen
Supported Audio Formats	WAV, FLAC, WMA, MP3, OGG, APE, AAC, ALAC, AIFF, DFF, DSF
Sample rate	PCM : 8kHz - 384kHz (8/16/24/32bits per Sample) DSD : DSD64(1bit 2.8MHz), Stereo / DSD128(1bit 5.6MHz), Stereo / DSD256(1bit 11.2MHz), Stereo
Output Level	Unbalanced 2Vrms Balanced 4Vrms (Condition No Load, Normal Gain) Unbalanced 3Vrms Balanced 6Vrms (Condition No Load, High Gain)
CPU	Quad-core
DAC	Full Discrete R-2R
Decoding	Support up to 32bit / 384kHz playback
Input	USB Type-C input (for charging & PC & MAC)
Outputs	Unbalanced Out (3.5mm), Optical Out(3.5mm) Balanced Out (2.5mm, only 4-pole supported) 4.4m, only 5-pole supported)
Wi-Fi	802.11 a/b/g/n/ac (2.4/5GHz)
Bluetooth	V5.0 (A2DP, AVRCP, Qualcomm® aptX™ HD, LDAC)
Dimensions	3.01" (76.45mm)[W] x 5.49" (139.45mm)[H] x 0.69" (17.6mm)[D]
Weight	About 11.18oz (317g)
Feature Enhancements	Firmware upgrade supported (OTA)
Operating Temperature	0°C ~ +40°C (32°F~ 104°F)
Audio Specifications	
Frequency Response	±0.038dB (Condition : 20Hz~20kHz) Unbalanced Balanced ±0.45dB (Condition : 20Hz~70kHz) Unbalanced Balanced
S/N	114dB @ 1kHz, Unbalanced 115dB @ 1kHz, Balanced (Normal Gain) 115dB @ 1kHz, Unbalanced 115dB @ 1kHz, Balanced (High Gain)
Crosstalk	-135dB @ 1kHz, Unbalanced -144dB @ 1kHz, Balanced
THD+N	0.006% @ 1kHz, Unbalanced 0.006% @ 1kHz, Balanced
IMD SMPTE	0.005% 800Hz 10kHz (4:1) Unbalanced Balanced
Output Impedance	Unbalanced Out 3.5mm (1.3ohm) Balanced Out 2.5mm (1.3ohm), 4.4mm(1.3ohm)
Clock Jitter	25pS (Typ)
Reference Clock Jitter	500 Femto Seconds
Memory	
Built-in Memory	256GB [NAND]
External Memory	microSD x1 (Max. 1TB)
Battery	
Capacity	5,050mAh 3.8V Li-Polymer
Charge Time	about 3.5hours (9V 1.67A Charging)
Playback Time	about 12hours (Standard : FLAC, 16bit, 44.1kHz, Vol.50, LCD Off, Normal Gain)
Supported OS	
Supported OS	Windows 10,11(32/64bit) MAC OS X 10.7