AK300

Astell&Kern

INSTRUCTION BOOK

User Guide

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Package Contents

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



Micro-USB Cable

microSD Card Slot Cover

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

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

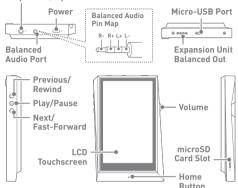
Quick Start Guide: Basic overview of device functionality. **Warranty Card:** The warranty card is required for customer and technical support. Do not misplace the card.

User Guide: The User Guide can be downloaded from the Astell& Kern website. [http://www.astellnkern.com/ > Support > Download]. MicroSD Card Slot Cover: The cover is used to protect the microSD card slot when not in use. It is installed on the product by default.

AK300 at a Glance

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

Earphones / Optical Port Power



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

Power: Turn the screen on and off

Long press - Turn the device on and off. Balanced Out: Output sound to earphones or headphones that support balanced audio connections. Connect to an external audio device by using both the earphone port (ground) and balanced audio port (LR) in conjunction. Micro-USB Port: Connect to a computer or recharge the device.

Expansion Unit Balanced Out: Output sound to an expansion device that supports balanced audio connections. Previous/Rewind: Play the previous song or restart the song. Long press - Rewind.

Play/Pause: Play or Pause a song.

Long press - Show the playback screen.

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

Long press: Fast-forward.

LCD Touchscreen: Display with touch control.

Volume: Control the volume by turning the wheel.

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

Home Button: Show the home screen.

Power Management

Turn On/Off

- 1. Long-press the [o] button to turn on the device.
- 3. Press [Confirm] to turn off the device.



Turn the Screen On/Off



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

Reset Function

1. In cases of unexpected device failure or freeze, press the [○ 0] button for 12 seconds to force a shutdown. The device can be restarted after a shutdown.

The device can be restarted after a shutdown



Resetting the device will not affect the stored data or time setting. may corrupt the data on the device.

Charging

Charging using PC

1. Connect the device to the PC using the supplied Micro USB cable. Charging starts.



Charging time: up to 8 hours (fully discharge, power OFF) You may have to turn on a computer to start charging depending on computer specifications.

When charging via PC connection, the charging time may vary depending on whether the device is turned on or off. If a computer goes into standby/sleep mode, the device may not be

charged depending on computer specifications. The built-in battery will gradually lose capacity over time according to the number of charges/discharges.

Do not use any micro-USB cable other than the one supplied with the device. Doing so may cause a malfunction.

Charging using the adapter

1. Charging is possible by using the 5V 2A output adapter (sold separately).

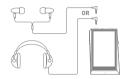


Charging time: up to 4 hours (fully discharge, power OFF) When using a high-speed charger that is supported with various voltages such as 5V/9V/12V, the charging may not proceed normally and it may cause the product to malfunction.

Connections

Earphones/Headphones

1. Connect earphones or headphones to the earphones port.



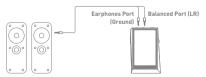
Balanced Earphones/Headphones

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



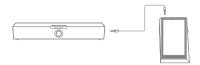
Balanced Audio Device

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



Optical Out

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



The volume will be fixed at the maximum level.

Connecting to a Computer

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





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

For an optimal connection, quit any unnecessary programs before connecting the device to the computer.
Only use the micro-USB cable supplied with the device. Doing so may cause a malfunction.

Windows XP users require Service Pack 2 and Windows Media Player 10 to be installed for the computer to recognize the USB

Download necessary Service Packs and Windows Media Player from the Microsoft website. http://www.microsoft.com

Disconnecting from the Computer

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



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

Copy Files/Folders to the Device

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





Make sure that the micro-USB cable is securely connected.

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

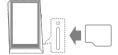
Delete Files/Folders on the Device

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



Insert/Remove a microSD Card

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



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



Recommended microSD Cards

Brand: SanDisk, Transcend



Maximum supported microSD card capacity: 128GB

Notes on inserting 128GB microSD card.

- Do not force the microSD card into the slot. Doing so may cause Do not force the microso card into damage to the device and/or microSD card.
 Do not repeatedly insert/remove the microSD card.
- If the microSD card is improperly inserted, it may become immovable or cause damage to the device.

Notes on removing a microSD card

- Be sure to safely unmount and remove the microSD card from the device. Not following the proper procedure may corrupt data and cause serious damage to the system.
- Do not remove the microSD card while it is in use. Doing so may cause data corruption/deletion, malfunction, and damage to the microSD card.
- Miscellaneous

 If the device is unable to recognize the microSD card and/or malfunctions, format the memory card before use. We recommend using the FAT32 format.

- Using microSD cards other than the recommended brands may cause device malfunction
- A microSD card is not included with this device. Please purchase

Firmware Upgrade

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

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



Refer to page 44 of the manual for more information on connecting

to a wiretess network. The firmware upgrade may not initialize if the battery level is too low. (A minimum battery level of 50% is required.) Moving to another screen during a file download will cancel the

Do not disconnect from the wireless network while downloading a firmware upgrade. Doing so may cause data corruption and/or

damage to the system.

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

Rasic Operations

I CD Touchscreen

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



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

Return to the Home Screen

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





Home Screen



The [Home] button on the AK300 is pressure-sensitive and can be operated with light pressure.

Navigating Up/Down in a List

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



Home Screen



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

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

Notification Bar



1		Notification Bar	Expand or collapse the notification bar by dragging the bar down or up, respectively.
2	*	Wi-Fi	Press [🎓] to turn Wi-Fi on or off.
3	*	Bluetooth	Press [🔰] to turn Bluetooth on or off.
4	EQ	EQ	Press [EQ] to turn the EQ on or off. The most recent EQ settings are applied by default.
5	G	Gapless Playback	Press [G] to turn Gapless Playback on or off.
6	(†)	Line Out	Turn Line Out on or off.
7	0	Wi-Fi Speakers	Turn Wi-Fi speakers on or off. [Must be on the same network.] [The icon will become enabled when AK Connect is turned on.]
8		Notifications Display	Notification contents are displayed in this area.
9	Q DEVICE	File Search	Enter keywords to display a list of items containing the search terms.
10	0	Settings	Displays a list of settings.

11	DAC	PC Connection	Select the appropriate mode
		Mode	when connected to a computer.
			DISK :USB drive mode for
			transferring media files.
			DAC :Listen to music located on
			a PC through the device.
12		Screen Lock	Press [🔒] to turn the screen lock
			on or off. The volume wheel is disabled
			when the screen lock icon is activated.
13	\rightarrow	Play Mode	Press [→] to cycle through
			different play modes.
			→ :Sequential playback.
			≍ :Shuffle playback.
14	Ü	Repeat Mode	Press [🚅] to cycle through
			different Repeat modes.
			🗂 :Repeat the entire playlist.
			:Repeat the current song.
			☐ :Disable repeat.
15	0	Ripper Power	Turn the CD Ripper on or off.
			(Enabled when connected to
			the AK CD Ripper.)
16		Cradle &	Output sound through the cradle's
			Balanced Out port. (Enabled when
			connected to the AK Cradle.)
	AMP	Amp	Turn amp functionality on or off.
			(Enabled when an amp is connected.)
17	Ö	Screen	Use the adjustment bar to
		Brightness	control the display brightness.

Purchasing Music from a Store

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

Purchasing Music

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



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

ΔΚ CONNECT

The AK300 can access and play back music files stored on a computer on the same network as well as output sound through Astell&Kern speakers.

MQS Streaming Server Installation

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



Connecting to the AK Connect Server

- 1. Turn on the server and connect to the same network as the AK300.
 - Run the MQS Streaming Server on your computer.
- 2. Turn on [AK Connect] from the device settings.
- 3 Press [AK Connect] from the home screen



4. A list of servers on the same network as the AK300 will he displayed.



5. Scroll the screen left and right to select a server. The selected server will be connected and the server home screen will be displayed.



6. Select a search option at the bottom of the server home screen to display a list of music.



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

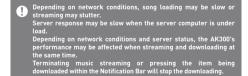
Streaming and Downloading from the Music Server

- 1. Select a search option from the server Home Screen to display a list of music.
- 2. Select a song to begin streaming.



- 3. Press the [] button at the upper-right corner of the music list.
- 4. Select the desired music, and then press the [1 button at the top of the screen to begin downloading.
 - A message on the Notification Bar will indicate a completed download





Selecting Speakers

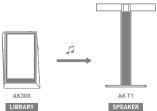
- 1. Turn on the speaker(s) to be connected, and then connect it to the same network as the AK300.
- 2. Turn on [AK Connect] from the device settings.
- 3. Press [3] from the notification bar to display a list of speakers available on the same network as the AK300.
- 4. Scroll the screen left and right to select a speaker. The selected speaker will be connected, and music will be played back through the speaker.



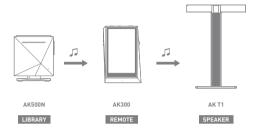


AK Connect Usage Examples

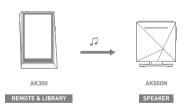
Example 1

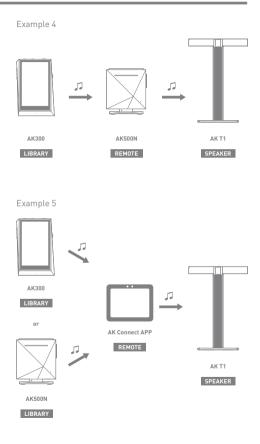


Example 2



Example 3





Listening to Music

Selecting Music

- 1. Select a search option at the bottom of the home screen to display the playlist.
- 2. Select a song from the list to begin playback.



Select [Folder] to search music by folder. Continuous Playback: Approximately 10 hours (Basis: FLAC, 16-bit, 44 kHz, unbalanced output, volume 80, EQ off, LCD off)
Supported Formats: PCM [8-192kHz[8/16/24bit]], DSD 64/128

Listening to Music

- Press [] at the top of the music list to display music options.
 - : Add the selected file after the current/last song of the current playlist.
 - : Add the selected file to the playlist.
 - : Copy the selected file.
 - T+: Move the selected file.
 - : Delete the selected file.
- Select an album cover from the home screen to begin playback.
- Turn the [Volume Wheel] to adjust the volume.
- Press [] during playback to pause and [▶] to resume playback.
 - You can also pause/resume playback by pressing the [|>] button on the device.
- Press [◄◄ / ▶►] during playback for the previous/next song. \circ Play the previous/next song by pressing the $[\langle / \rangle]$ button on the device.
- Long-press [◄◄ / ▶►] during playback to rewind/fast-forward. Rewind/fast-forward by pressing the [(/)] button on the device.

- Drag the progress bar to the desired location during playback.
- Press the [Home] button on the device to go to the Home Screen.
- Press the album cover during playback to display an additional screen.
 - : Display the previous screen.
 - : Display the current playlist.
 - oPress [=] next to the playlist to edit the playlist order.
 - oPress [] at the top of the music list to display music options.
 - : Add the selected file to the playlist.
 - : Delete the selected file from the playlist.
 - + : Add the current song to the playlist.
 - =: Display lyrics for the current song.
 - i : Display current song information.

Playlist Screen



1	Current Location	Indicates the current location. Press to return to the previous screen.	
2	Play All	Play all songs from the current playlist.	
3	Playlist	Displays the playlist for the current location.	
4	List Sorting	Select a method for sorting the playlist.	# 10 E = 0 Y = 0) = 0444 4- ALBUMS SS II ALL Momenty ALL MOS DSD Serque into Bi-Mz = 3564-Mz
			Sprein teta

5	List View Select a view type for the list of albums	
6	Music	Select the checkbox to apply playlist
	Options	options.

Music Player Screen



1	_	Previous Screen	Return to the previous screen.
2		Album Cover	Display album covers.
			Press the album cover to show
			additional functions.

Lyrics	Lyrics for the current song.	
Add to Playlist	Add the current song to a playlist.	
Song Progress	Indicates song duration.	
Details	Displays bitrate and sampling frequency data.	
Title	Song title information. File name is displayed when ID3Tag is unavailable.	
Artist	Artist name.	
Play/Pause	Play or pause the current song.	
Playlist	Displays the current playlist.	
Details	Displays current song information.	
Song Duration	Indicates the song's total duration. Press to switch from elapsed time to remaining time.	
Progress Bar	Indicates song progress. Drag the indicator to move to the desired time.	
Previous/ Rewind	Short press: Previous song. Long press: Rewind the current song.	
Next/ Fast-Forward	Short press: Next song. Long press: Fast-forward the current song.	
	Add to Playlist Song Progress Details Title Artist Play/Pause Playlist Details Song Duration Progress Bar Previous/ Rewind Next/	

Playlist Management

Creating a Playlist

- 1. Press [Playlist Playlists] from the home screen to display a list of playlists.
- 2. Press [+] at 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 a list of playlists.
- 2. Select a playlist and press [+ Add] to display a list of songs.
- 3. Select the desired song, and then press [+ Add] to add the song to the selected playlist.



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 [i to remove the song from the selected playlist.



Editing the Playlist Order

1. Press [\equiv] 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 [i] at the top of the screen to delete the selected playlist.



USB DAC Installation

The USB DAC functionality allows the AK300 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 [32/64-bit] / Windows 7 [32/64-bit] / Windows 8 [32/64-bit] / Windows 10[32bit/64bit] OS X 10.7 (Lion) or later
- 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
 - o Bit Rate: 16-bit/24-bit
- Control the volume with the AK300's volume wheel.
 - Sound 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
 - 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 Rippina

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.
- A: 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 AK300 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

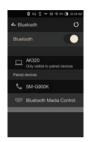
Using Bluetooth

Connect a Bluetooth device to listen to music wirelessly.

Turning Bluetooth On/Off

A Bluetooth device must be paired with the AK300 prior to use. Refer to the Bluetooth device's instruction manual for details.

 Select [★] from the home screen, or select [On/Off] from [◆ -Bluetooth].



Bluetooth Pairing

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



A Bluetooth device must be paired with the AK300 prior to use. Refer to the Bluetooth device's instruction manual for details.

Terminating a Bluetooth Connection

 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, aptX
- Device performance may be affected during Hi-Fi playback. (48 kHz or lower is recommended.)

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

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

- 2. Select the desired item for setup.

Wi-Fi

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



wireless network.

Rluetooth

· 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.
 - o 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)]

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.
 - o 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



- 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.
- L Win-Fi

 Win-Fi

 HCABLE
 Connected

 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

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



 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].



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



6. Press [I|II] 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

1. Select the desired EQ setting and press [O] at the top of the screen to revert the EQ to its default settings.



Deleting an Equalizer

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





Renaming an Equalizer

- 1. Press [Pro EQ] at the upper-left corner of the screen.
- 2. Press [<u>Ø</u>] next to the desired item and enter a new name for the selected equalizer.
- 3. 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 river Customer Support Center.
 Malfunctions due to exposure to liquide will be repaired.
 - [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.
- If playing for extended periods, the device can be very hot, so please keep in mind when using.

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.

Troubleshooting

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 LISB 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 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: oPlayback is unstable or difficult.
 - The product may not work normally.
 - The file may sound different from a computer.
 - oThere may be a difference in the performance of playback or other functions.
 - oThere may be differences in the playable specs.
 - A file conversion or use of a different file is recommended.

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The AK300 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: PPE31

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.

(b) For a Class B digital device or peripheral, the instructions furnished 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 ECC 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 bodyworn 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."

Specifi-cations

AK300
PPE31
Midnight Black
Aluminum
4-inch WVGA [480x800] Touch Screen
WAV, FLAC, WMA, MP3, OGG, APE (Normal, High, Fast),
AAC, ALAC, AIFF, DFF, DSF
PCM: 8kHz ~ 192kHz (8/16/24bits per Sample)
DSD : DSD64, Stereo/ DSD128, Stereo
Unbalance 1.98 Vrms/ Balance 1.98 Vrms (Condition No Load)
AKM AK4490 x 1 (Single DAC)
Support up to 24bit / 192kHz Bit to Bit Decoding
Type-B micro-USB Input (Charging & data transfer (PC & Mac)) /
Connection Mode: MTP [Media Device]
Phones (3.5 mm) / Optical Out (3.5 mm) /
Balanced Out (2.5 mm, only 4-pole supported)
802.11 b/g/n (2.4 GHz)
V4.0 (A2DP, AVRCP) APT-x
2.95"(75.15 mm)[W] x 4.42"(112.4 mm)[H] x 0.60"(15.45 mm)[D]
7.23 oz(205g)
Firmware Upgrade Supported (OTA)
±0.075dB (Condition: 20Hz~20kHz) Unbalance /
±0.075dB (Condition: 20Hz~20kHz) Balance
±0.56.dB (Condition: 10Hz~70kHz) Unbalance /
±0.55.dB (Condition: 10Hz~70kHz) Balance
116dB @ 1kHz, Unbalance/ 116dB @ 1kHz, Balance
130dB @ 1kHz, Unbalance/ 130dB @ 1kHz, Balance
0.0008% @ 1 kHz, Unbalanced / 0.0007% @ 1 kHz, Balanced
0.0007% 800 Hz 10 kHz (4:1) Unbalanced /
0.0006% 800 Hz 10 kHz (4:1) Balanced
Balanced Out 2.5 mm (1 ohm) / Phones 3.5 mm (2 ohm)
30 ps (Typ.) / Reference Clock Jitter (VCXO Clock) 0.2 ps (Typ.)
0.2ps (VCXO Clock)
64GB[NAND]
microSD (Max. 128 GB) x 1
3,100mAh 3.7V Li-Polymer Battery
Windows XP, Windows 7,8,10(32/64bit)

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