

Shanling H7

Portable DAC/AMP

Advanced User Manual

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Advanced User Manual Introduction

This manual guides you through the more advanced functions and settings of H7. Please make sure to firstly read the **Quick Start Guide** included alongside each H7, teaching you basics about the device and its controls.

Based on Firmware version V1.4

Volume Control Behaviour

Volume control on H7 is split between volume control of RCA outputs and Headphone outputs.

Device keeps the last set volume in memory even after restart.

RCA Output

If no headphones are connected to H7, the volume control will affect only the volume of RCA output.

If you are using external pre-amplifier/headphone amplifier or active monitors with dedicated volume control, we recommend to set H7 to volume 99, this is maximum volume with cleanest output and it sets RCA output to line-level at 2.4V.

If you are connecting H7 directly to power amplifier or active monitors without dedicated volume control, be sure to firstly reduce volume on H7 before starting playback. In this setup H7 will act as a pre-amplifier for the audio rig.

Headphone Outputs

All three headphone outputs share the volume setting. Please be careful when switching from 6.35/3.5mm single-ended to 4.4mm Balanced output, as the 4.4mm balanced output will be more powerful.

It's only possible to set the volume of headphone output with headphones connected. Please do not start music playback before connecting headphones and lowering the volume.

Control Lock

Double press the right/Volume wheel to lock controls. Double press the wheel again to unlock.

We recommend to lock the controls when using H7 in a pocket, to prevent accidental switching of inputs.

SPDIF Input

H7 offers SPDIF digital input, supporting both coaxial and optical input. While these two inputs are sharing the one rear 3.5mm port, be aware that they are two different input modes in the H7's system.

For Coaxial input, RCA to 3.5mm cable is provided alongside H7.

For optical input, any standard optical cable with 3.5mm should be compatible with H7.

Recommended Charging Behaviour in Desktop Setup

There is no dedicated mode for battery use in desktop setup.

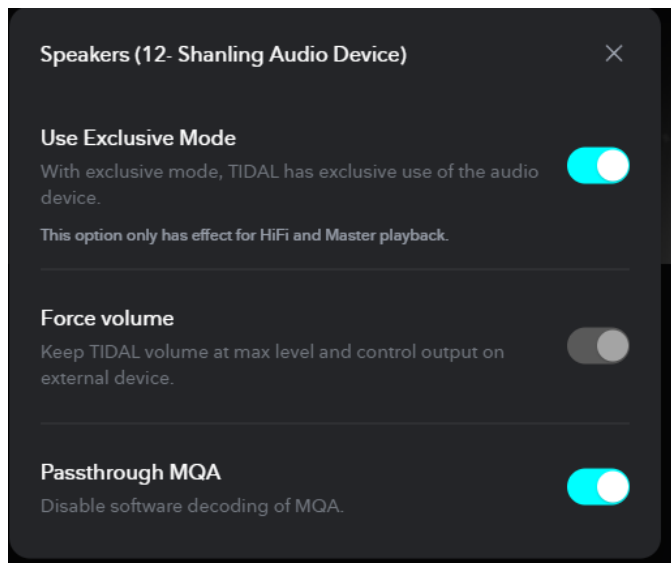
We do not recommend to use H7 with constantly connected charger, as this will lead to battery deterioration over time.

Connect H7 to charger only when battery is running low.

MQA Setup for Tidal

In Tidal app on your computer, make sure that “Exclusive Mode” and “Passthrough MQA” settings are enabled.

When set correctly, H7 should display MQA Blue LED and Blue or Green kHz LED. If the kHz LED is purple, Passthrough MQA is not enabled correctly.



Settings Menu navigation

- Press the left / Control wheel for 2s to enter the menu.
- Press the left / Control wheel to move to the next item in menu.
- Turn the left / Control wheel to adjust the displayed setting.
- Press the left / Control wheel for 2s to exit the menu.

Menu items

Gain

Switch between Low, Medium and High Gain of headphone output. We recommend to stay at Low gain for most in-ear monitors, for more precise volume control.

Note: This setting has no impact on RCA output level.

Play Mode

Applicable only when playing music from inserted MicroSD card

List Play – Continue with the currently playing tracks, until the end of list (CD, folder, Album, etc)

Repeat Track – Currently playing track will be continuously repeated

Shuffle - Randomize order of the tracks on CD, folder, Album, etc

Repeat All – When the currently playing list, CD, Folder, Album ends, playback will restart from the beginning

Digital Filters

Switch between six available digital filters, slightly adjusting overall sound. This setting affects how the audio data are processed in the DAC, affecting both headphone and RCA outputs.

Applicable for all inputs of H7.

Brightness

Set brightness of the screen

Switch Mode (UAC1.0)

Setting enabling simplified UAC1.0 USB connection. This setting affects only USB input of H7.

Please enable this function only when using H7 with devices such as gaming consoles, older Android phones or less common operating systems.

Please keep the Switch Mode off when using H7 with modern Android/ iOS device or Windows/Mac computers.

Channel Balance

Adjust channel balance of outputs.

SyncLink

Turn On / Off [SyncLink Function](#)

Rotate

Rotate display 180 degrees

Auto off

If the H7 is not being used, if there is no input detected, it will automatically power off after set time.

Set to off or 15/30/60/120 minutes.

System Update

Please visit [our official website](#) for any available firmware updates for your H7.

Instruction for firmware update will be available on our website.

Reset

Resets all settings on H7 to defaults.

Press in on the right / volume wheel to reset the H7.

Firmware Version

Displays currently installed firmware.

Using H7 With Music on MicroSD card

Thanks to the included MicroSD card slot, music can be stored directly on H7. Avoiding any degradation of USB/SPDIF/Bluetooth transport.

At default, H7 will start playing from first file in first folder. Going through files and folders in alphabetical order.

You can use left/control wheel to jump to previous/next song.

H7 needs to be connected to your phone or tablet over SyncLink to access the full audio library on the USB Drive. Allowing for simple browsing through folders or music tags.

H7 supports wide range of audio formats and Hi-Res playback up to 32bit / 768 kHz and DSD512.

Supporting MicroSD cards up to 2TB size. We recommend exfat formatting.

SyncLink Function

Easy access to the files on MicroSD card

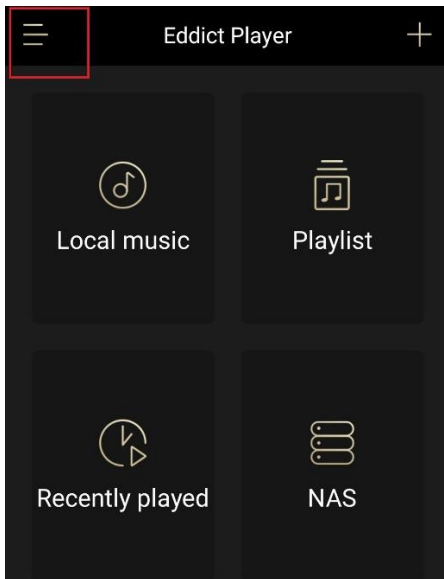
Install Eddict Player app on your Android or iOS device, app is available directly in their Play Store apps

Android Link: <https://play.google.com/store/apps/details?id=com.shanling.eddictplayer>

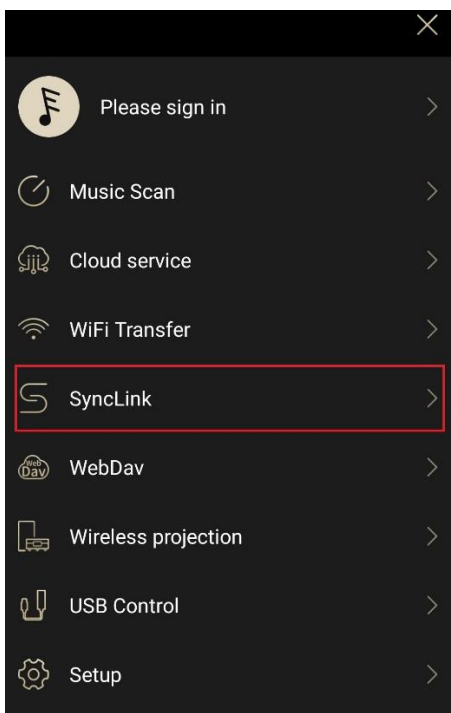
Apple Link: <https://apps.apple.com/us/app/eddict-player/id1529232239>

Connecting Using SyncLink Function

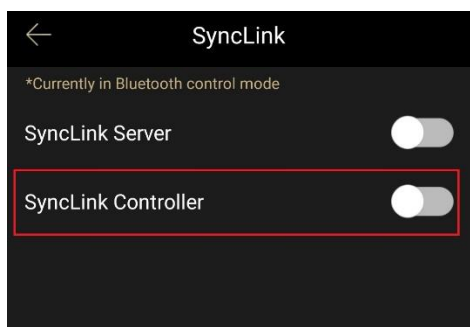
1. Go to settings on H7 and make sure Synclink is activated.
2. In Eddict App, open the side menu.



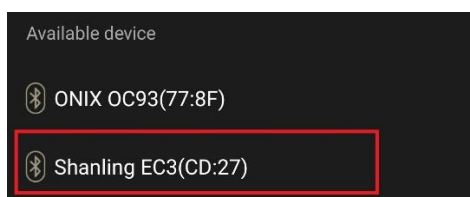
3. Click on "SyncLink"



4. Enable “SyncLink Controller”. Your device might ask you to provide the app with certain system permissions, please allow it.



5. App will search for available devices. Look for item “Shanling H7” in the list of available devices. Click on it to pair the devices.



6. Devices will now connect and the Eddict Player app will switch to SyncLink mode.

SyncLink & MicroSD Card Playback

If your H7 is currently set to MicroSD card playback, Eddict Player app will allow you to easily browse through all the files on the card and control playback.

Browsing files based on their tag

1. Open side menu of the Eddict Player app and click on “Music Scan”. This will scan the whole card, sorting all the files by their tags.

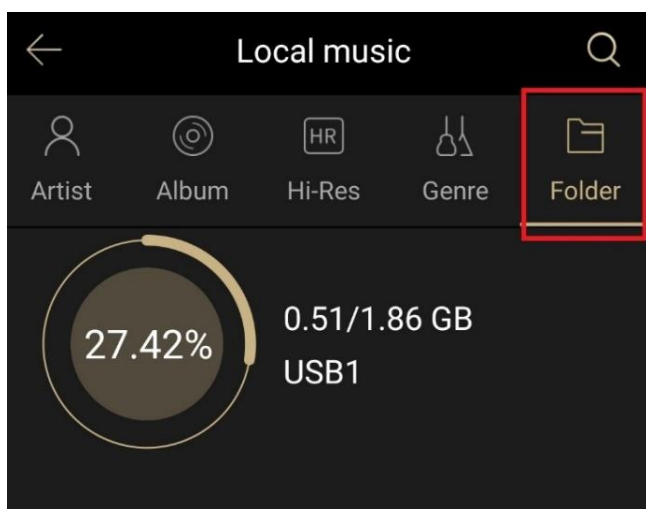
This step can be skipped if you wish to use only Folder browsing to access your files.

2. On main screen of Eddict Player app, click on “Local Music” to view files on the card. Allowing for easy browsing based on Artist, Album or Genre. Click on any track to start playback.

Browsing files through basic folder structure

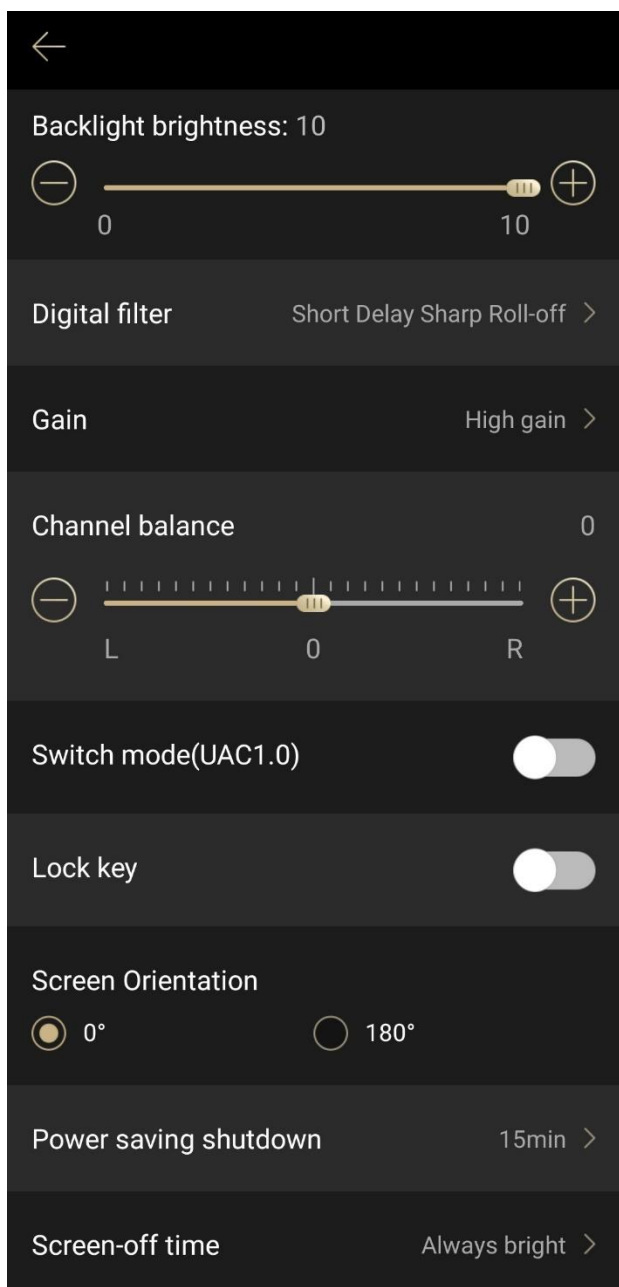
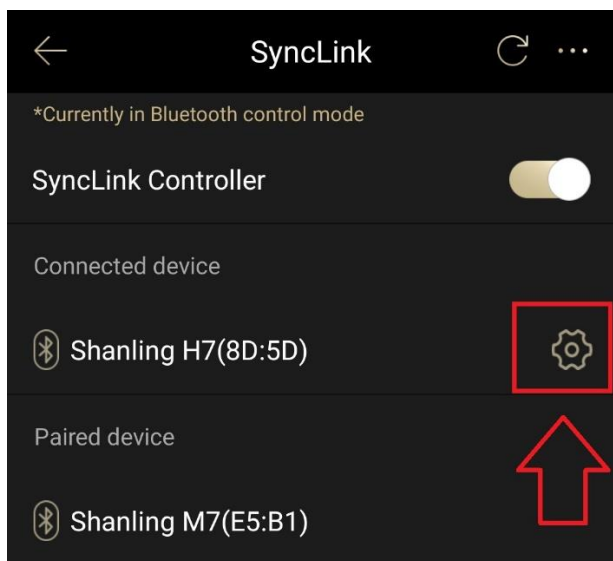
On main screen of the Eddict Player app, click on “Local Music” and swipe left to display “Folder” tab (located next to “Genre” tab).

App will display “SD”, open it to start browsing through all the files and folders on the card.



Accessing H7's setting through Eddict Player and SyncLink

In SyncLink menu inside Eddict Player app, click on the settings icon. This allows for changing main settings directly on the phone.



FAQ

Is it possible to use multiple headphones at the same time?

We do not recommend to connect more than one pair of headphones to H7 at any given time.

How to connect H7 to iPhone or iPad with Lightning connector?

Special cable optimized for USB DACs is needed. Simple MFI cable is not compatible with this function.

We recommend to purchase Shanling L3 Lightning – USB-C cable for this use.

How to change screen time-off setting?

At default, screen-off time is set to 20 seconds. This setting can be adjusted only [within the Eddict Player app](#).