




iFi nano iDSD with Smart Devices (iOS7/Android) explained

Q: There are portable DAC on the market that supports Smart Devices, what make the iFi nano iDSD so special?

A: Only iFi nano iDSD supports full high resolution up to 384kHz and DSD 5.6/6.2M for portable Smart Devices.

PCM	DSD	DXD
Pulse Code Modulation	Direct Stream Digital	Digital Extreme Definition
2.8 MHz	3.1 MHz	5.6 MHz
176.4 kHz	192 kHz	352.8 kHz
44.1 kHz	48 kHz	88.2 kHz
		96 kHz

Using the all new Sony PHA-2 as an example:

Item	Sony PHA-2	Sony PHA-2 with CCK/OTG*1	iFi nano iDSD with CCK/OTG*1
			
Computer			
PCM 384kHz	✗	✗	✓
DXD 352kHz	✗	✗	✓
DSD 5.6M	✓	✓	✓
PCM 192kHz	✓	✓	✓
Smart Devices*2			
PCM 352/384kHz	✗	✗	✓
DXD 352kHz	✗	✗	✓
2.8/5.6MHz DSD	✗	✓	✓
PCM 88/96/176/192kHz	✗	✓	✓
PCM 44kHz	✓	✓	✓
Features			
Digital Filter Selection	✗	✗	✓
Bit-Perfect DAC	✗	✗	✓
Precision Analogue Volume Control	✓	✓	✓
Line Output	1V	1V	1.8V
Headphone Power*3	165mW(8R)	165mW(8R)	170mW(10R)
Battery	6.5hr	6.5hr	10hr
Size	270g	270g	162g
Weight	68 x 29 x 140mm	68 x 29 x 140mm	68 x 28 x 87mm

Note:

*1 Apple: with Apple USB Camera Adapter and app (e.g. Onkyo HF Player); Android: with OTG cable and app (e.g. Audio Evolution).

*2 Smart Devices: Apple iOS7 devices (iPhone/iPad/iPod Touch), Android 3.1 or above phones/pads

*3 Measured at 10% distortion. iFi nano at 1% distortion, >130mW (16R).

Connection to an Apple iDevice (iPhone/iPad/iPod Touch)

Requirements:

Any Apple device that can run iOS7

- iPhone 4/4s/5/5c/5s
- iPad Air/Mini
- iPod Touch



Additional hardware needed:

1. Lightning to USB Camera Adapter (for Lightning connector, iPhone 5 etc.), or Apple iPad Camera Connection Kit (for 30 pin connector, iPhone 4 etc.)



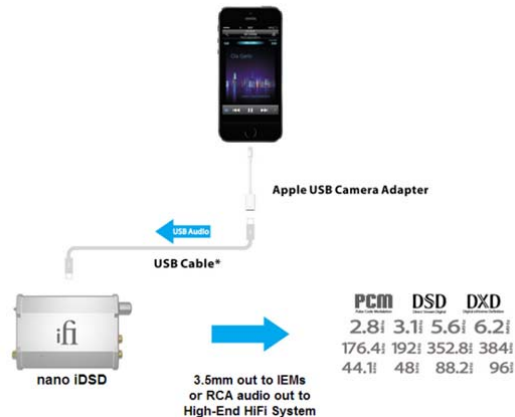
2. USB A to B adaptor or Short USB A to B cable



Additional apps needed:

(Need a software player that can play FLAC, DSD), e.g. Onkyo HF Player

(<https://itunes.apple.com/en/app/onkyo-hf-player/id704139896?mt=8>)



Connection to an Android device

Requirements:

- Android device that can run Android 4.1 or above
- USB Host mode has been enabled by the Android manufacturer
- Android device running Android Open Accessory (AOA) protocol version 2.0



Additional hardware needed:

1. OTG Cable



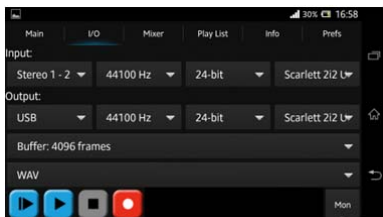
2. USB A to B adaptor or Short USB A to B cable



Additional apps needed:

Audio Evolution (<http://www.audio-evolution.com/>), or

USB Audio Recorder Pro (<http://www.extreamsd.com/USBAudioRecorderPRO/>)



For a list of Android devices supported:

<http://www.extreamsd.com/USBAudioRecorderPRO/>

<http://www.head-fi.org/t/595071/android-phones-and-usb-dacs/1140>