TOPPING™

NX4 DSD

User's manual

Introduction

Thank you for purchasing portable headphone amplifier with built-in USB DAC NX4 DSD!

NX4 DSD is a high performance headphone amplifier with built-in USB DAC, it has Gain set and Selectable Mega bass, NX4 DSD' s USB DAC has been designed for PC, IOS devices and most Android devices, and NX4 DSD' s line input can connect almost all stereo devices. NX4 DSD can provide better DAC, improve the player' s output power and sound quality to drive a headphone.

Pros

● 28 hours play back time for headphone amplifier mode and 7.5 hours playback time for USB DAC mode.

● Full aluminum case.

● Micro USB charge port.

● ALPS potentiometer.

● Intelligent charging with battery indicator.

Spec

Measured: 11cm x 6.8cm x 1.4cm
Weight: 148g
Power input: DC5V/1.5A or higher(PC's USB 0.5A is OK too)*
Charge time: <4 hours(using DC5V/1.5A or higher input)
Playback time: >28hours(Headphone amplifier mode)
                 >7.5 hours(USB DAC mode)
USB DAC: 44.1kHz-768kHz/16Bit-32Bit、DSD64-DSD256
                 （Dop）、DSD64-DSD512（Native）
THD+N: <0.0005%@RL=300Ω A-weighting
SNR: ≥120dB
Noise: <2.5uVrms@Gain=L, <6.5uVrms@Gain=H
Gain: 0dB/8.8dB
BASS: 0dB/4dB
Output power: 280mW(32Ω);114mW(300Ω)
Frequency response: 20Hz – 100KHz
Recommended headphone impedance: 16 - 300Ω

*Warning: If the voltage of the adapter exceeds 5.2V, it will
          damage NX4 DSD.

Components guide
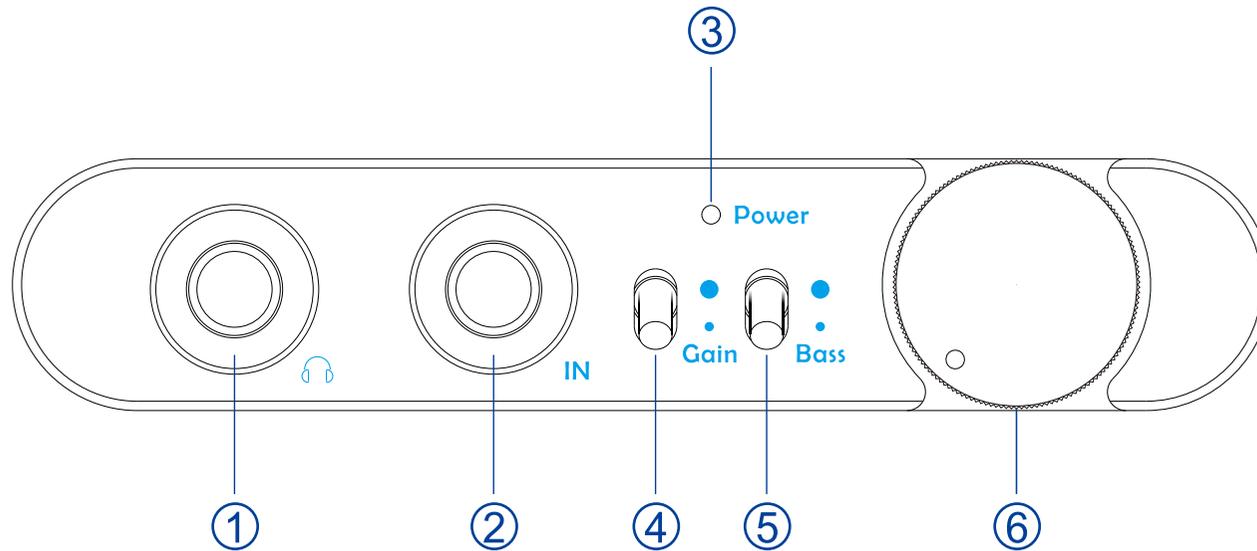
③ **Headphone output:** Suitable for 3.5mm headphone.

② **Line in/out:** Use for Line in at headphone amplifier mode, use for line out at USB DAC mode. Suitable for a 3.5mm cable.

③ **Power LED:** It lights blue when NX4 DSD is working; it lights red when power is too low.

④ **Gain set:** Switch High-low gain.

⑤ **Mega Bass:** Set Bass effect.

⑥ **Power switch & volume control:** Rotate it to control power and volume.

⑧ ⑨

Charge

DAC
Red:DSD

⑦ ⑩
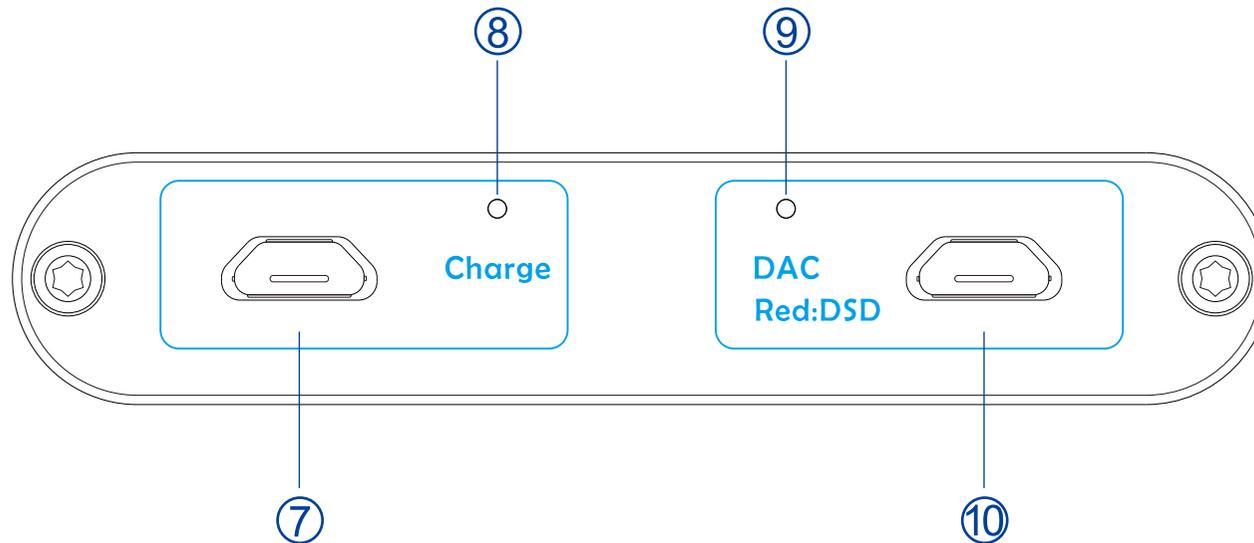
⑦ **Charge port:** Recommend 1.5A or higher output adapter.
Computer's USB port also can be used but it will need
more time to charge.

⑧ **Charge LED:** It lights red when NX4 DSD is charging;
it lights green when charge is completed.

⑨ **DAC LED:** Blue means being valid connection and playing
PCM format Audio; red means playing DSD format Audio.

⑩ **USB DAC input:** Use for PC's, IOS device's and most
Android device's USB DAC. NX4 DSD needn't a driver for
IOS and Android, but you need to install a driver for
Windows OS.

Note: You should only use the cable of accessory to
connect NX4 DSD and your IOS or Android devices.
Unspecified cable will probably damage your NX4 DSD.

Connecting to a Phone

NX4 DSD

DAC

Red:DSD

Mobile Phone
(Micro/Type-C Port)

Micro to Micro/Type-C USB Cable

6
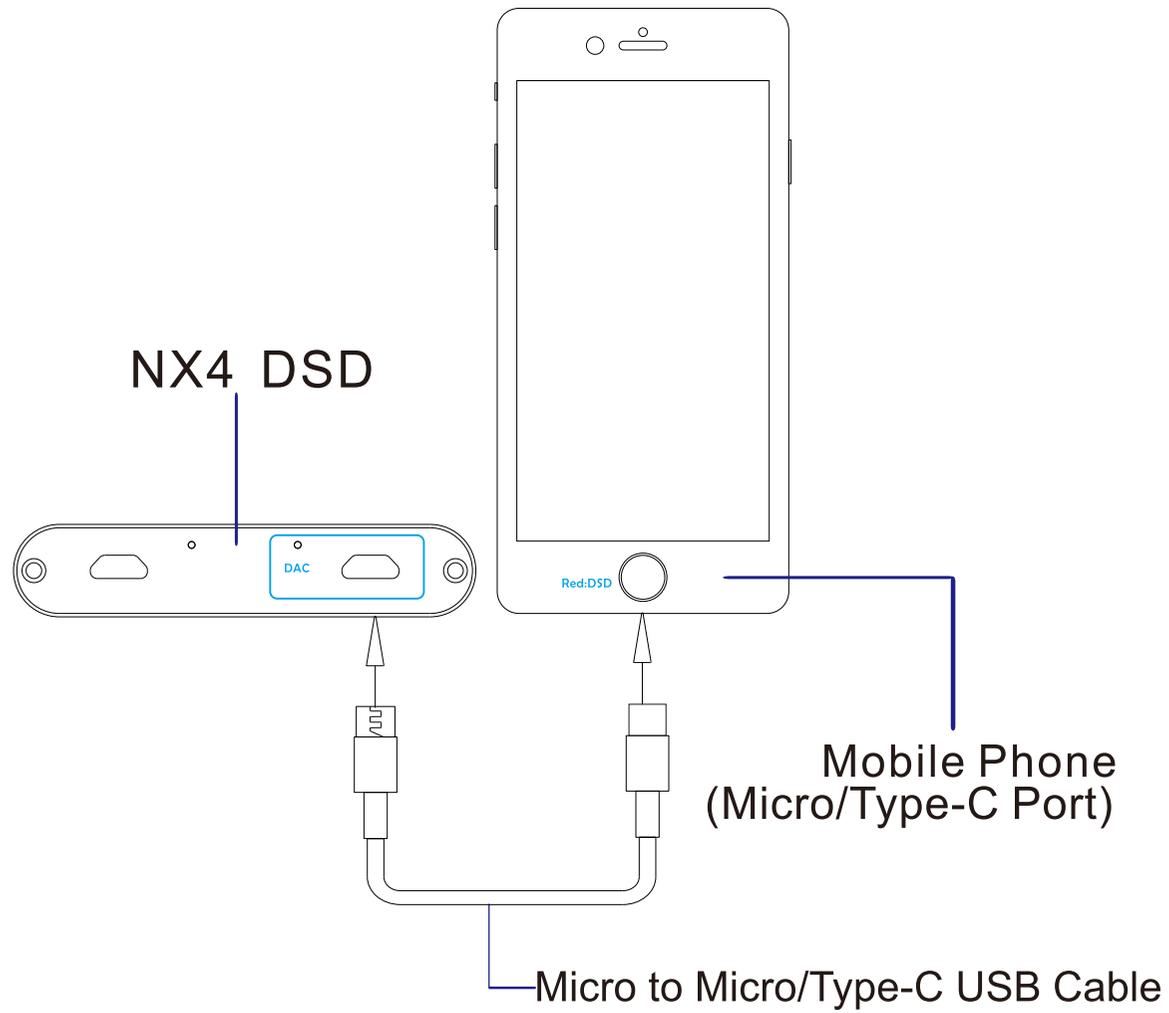
Contents list

NX4 DSD   x 1
3.5 to 3.5 audio cable   x 1
USB Charge cable   x 1 (Use for charging or connect to PC)
Micro USB to Micro USB cable   x 1 (Use to connect to Android devices
                                                  which use a Micro USB port)
Micro USB to Type-C USB cable x 1 (Use to connect to Android devices
                                                  which use a Type-C USB port)
Rubber band   x 2 (Use to binding NX4 DSD & the player)
Velcro   x 5 (Use to stick NX4 DSD & the player)
Rubber pad   x 1 (Place between NX4 DSD & the player
                                                  avoid friction between them)
User's manual   x 1
Warranty card   x 1

（You can download the drivers and user's manual on http://www.tpdz.net/）

Trouble shooting

Problem	Probably is…	Solution
Power LED off	NX4 DSD need to be charge	Charge NX4 DSD
Line in input, no sound	Input and output are reversed	Connect to correct port
	Signal cable did not connected properly	Check or change the cable
	The player did not output	Check the player
USB did not recognize	USB cable did not connected properly	Check or change the cable
	PC's USB port damaged	Change another port
	OS problem	Reinstall OS
	Driver problem	Reinstall the driver
USB input, no sound	Too low volume on PC	Adjust volume
USB input, sound intermittent	OS busy	Wait for it or reboot.
If you have any problem, please contact us(service@tpdz.net)		

1、You must not keep the amplifier in a hot, humid environment or drop it.

2、Opening the case instantly voids the warranty!

3、If you are not going to use NX4 DSD for a long time, it should be regularly charged to have a better battery life.

4、Never use the headphones in places where the inability to hear ambient sounds presents a serious risk.

5、USB cable of accessory are specially designed for NX4 DSD, you should not use them at other devices to avoid damage.

RMS Level

Bench Mode : Sweep

Measured 1   2017/10/12 17:44:17, NX4 DSD Frequence Reseponse For HP @Gain=L，BASS=OFF，RL=32Ω

Measured 2   2017/10/12 17:45:55, NX4 DSD Frequence Reseponse For HP @Gain=H，BASS=OFF，RL=32Ω

Measured 3   2017/10/12 17:46:21, NX4 DSD Frequence Reseponse For HP @Gain=L，BASS=ON，RL=32Ω

Measured 4   2017/10/12 17:46:46, NX4 DSD Frequence Reseponse For HP @Gain=H，BASS=ON，RL=32Ω

RMS Level (2017/10/12 17:44:17.141 - 2017/10/12 17:46:46.979)
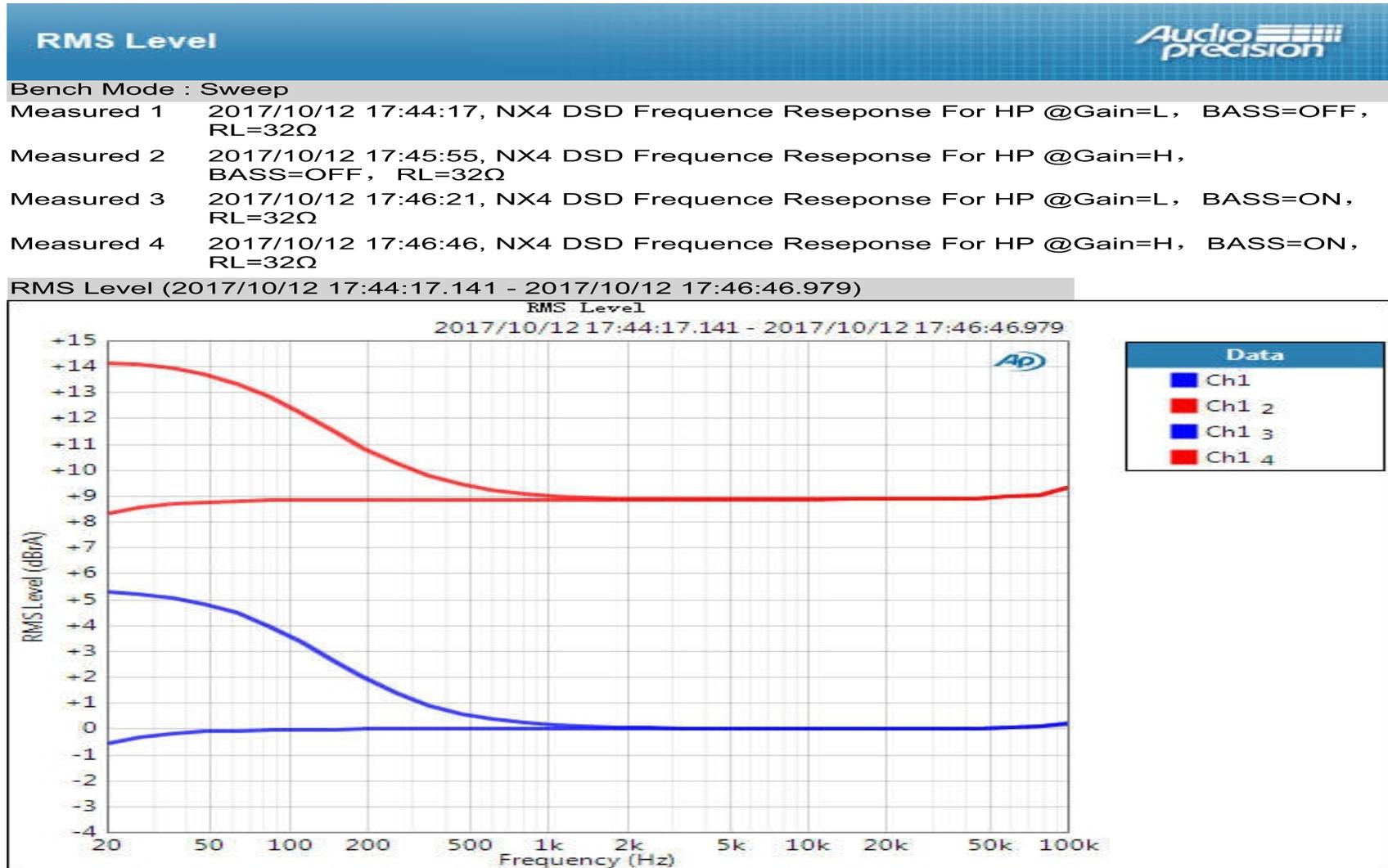
RMS Level

Bench Mode : Sweep

Measured 1   2017/10/13 10:09:04, NX4 DSD THD+N and Output For HP @RL=300Ω

RMS Level (2017/10/13 10:09:04.430)
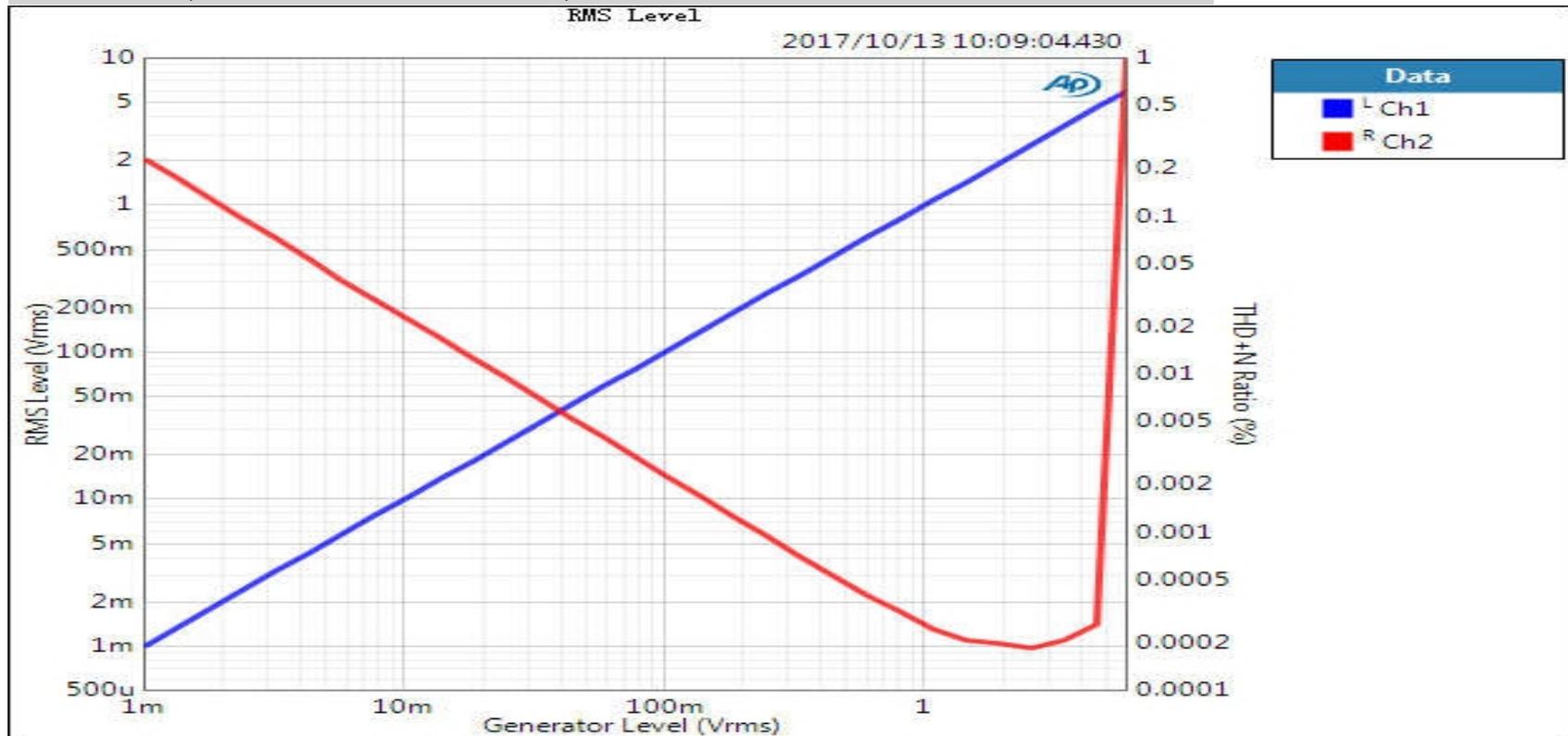
RMS Level Parameters

Result Failure Condition: Left Or Right

THD+N Ratio

Bench Mode : Sweep

Measured 2   2017/10/12 11:44:17, NX4 DSD THD+N For AMP @RL=300Ω、P=57mW

THD+N Ratio (2017/10/12 11:44:17.459)

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