

TOPPING™

*DX7s*

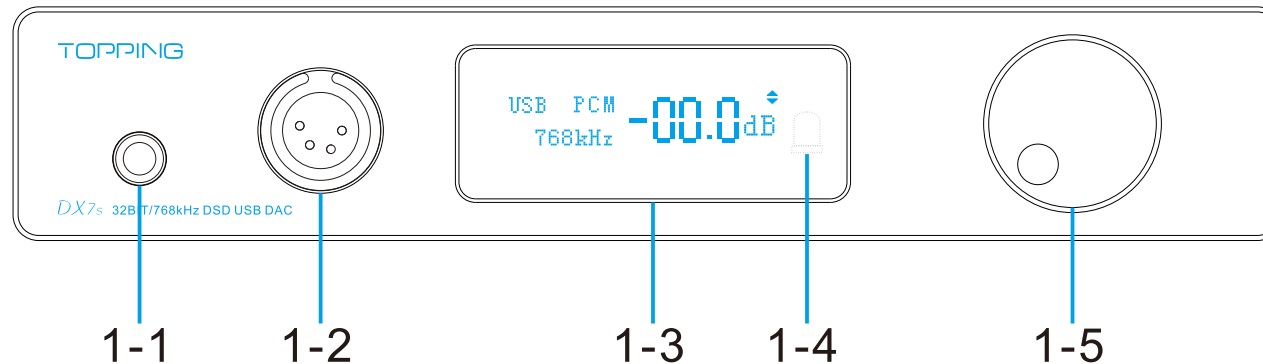
User's manual

# Introduction

Thank you for purchasing full balanced DAC & headphone amp DX7s.

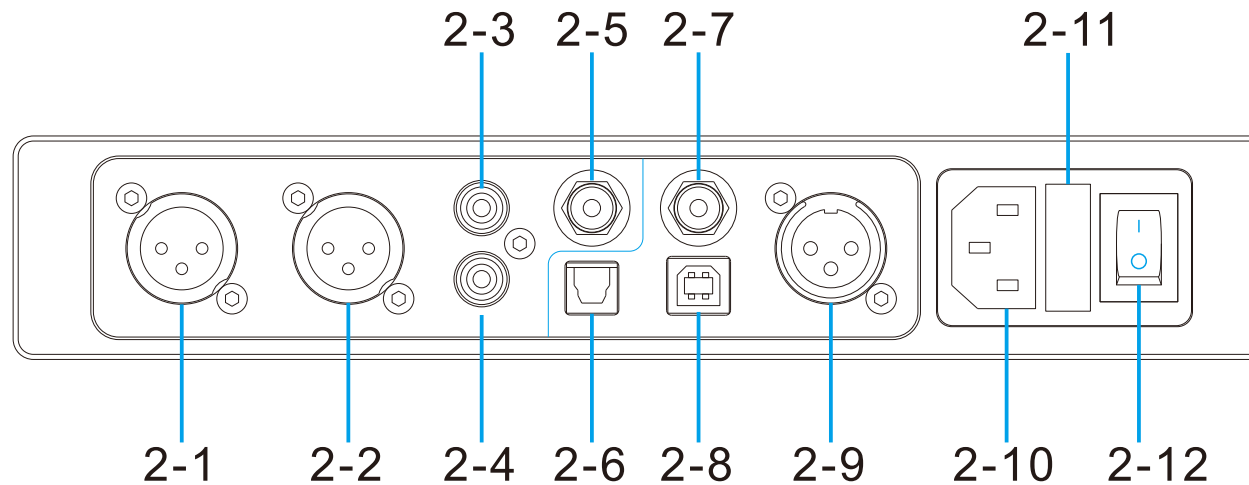
The DX7s is a high performance device which has four digital inputs, one digital output, two Line Out output and two headphone output. DX7s is compatible with 768kHz/32Bit and DSD512, it can be used as not only a HIFI DAC & headphone amp, but also a DAC or digital interface. We hope DX7s could bring you more fun at enjoying music. Now we recommend you read this manual so that you can use all the features of DX7s correctly.

# Front panel



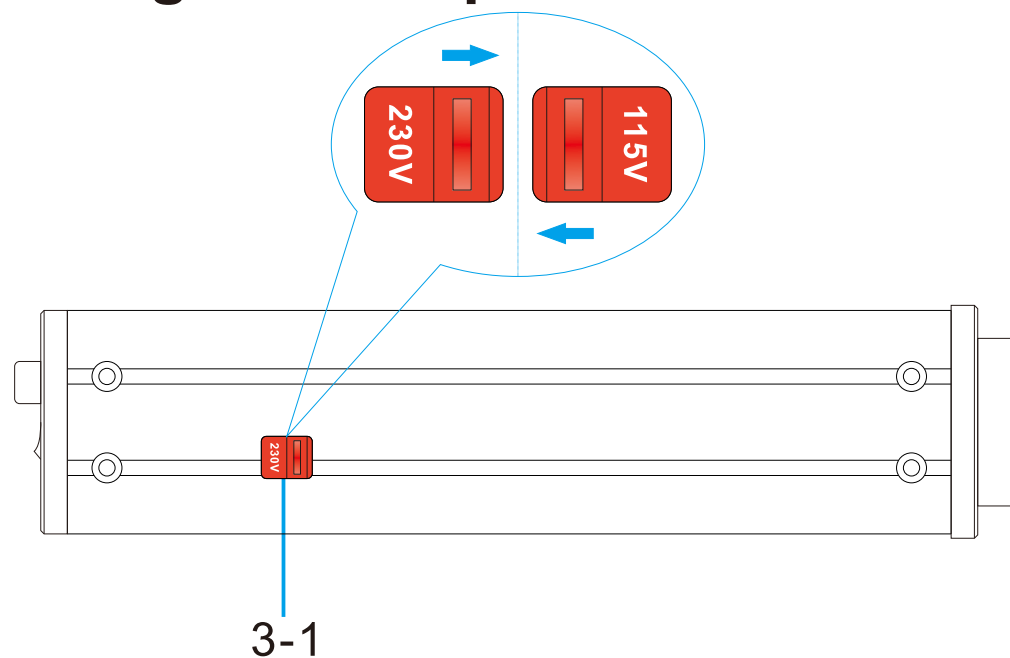
- 1-1 6.35mm headphone output
- 1-2 Balanced headphone output
- 1-3 OLED screen
- 1-4 Remote control receiver
- 1-5 Volume knob /Multi-function Button

## Rear panel



- |     |   |      |              |
|-----|---|------|--------------|
| 2-1 | Right channel analog XLR output                       | 2-7  | COAX input   |
| 2-2 | Left channel analog XLR output                        | 2-8  | USB input    |
| 2-3 | Right channel analog RCA output                       | 2-9  | AES input    |
| 2-4 | Left channel analog RCA output                        | 2-10 | Power input  |
| 2-5 | COAX output (only available when there's a USB input) | 2-11 | Fuse         |
| 2-6 | OPT input   | 2-12 | Power switch |

## Voltage setting on side panel

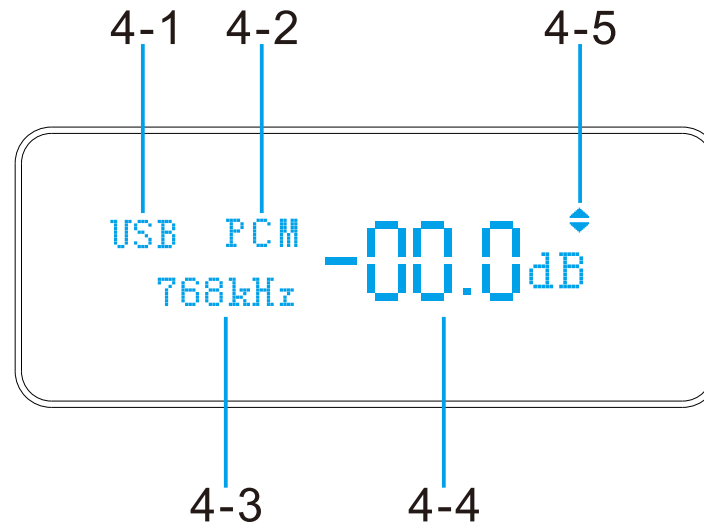


3-1 Voltage selector switch:  
115V for AC100V-120V 50/60Hz,  
230V for AC220V-240V 50/60Hz.

Note:

1. Please choose the correct voltage before using; the wrong voltage will damage your DX7s.
2. For reducing the noise and get the best playback quality, please use three-phase power cable which is including the ground terminal and ensure the ground is reliable connection.

# Display



4-1 Input channel

4-2 Input format

4-3 Current sampling rate

4-4 Volume

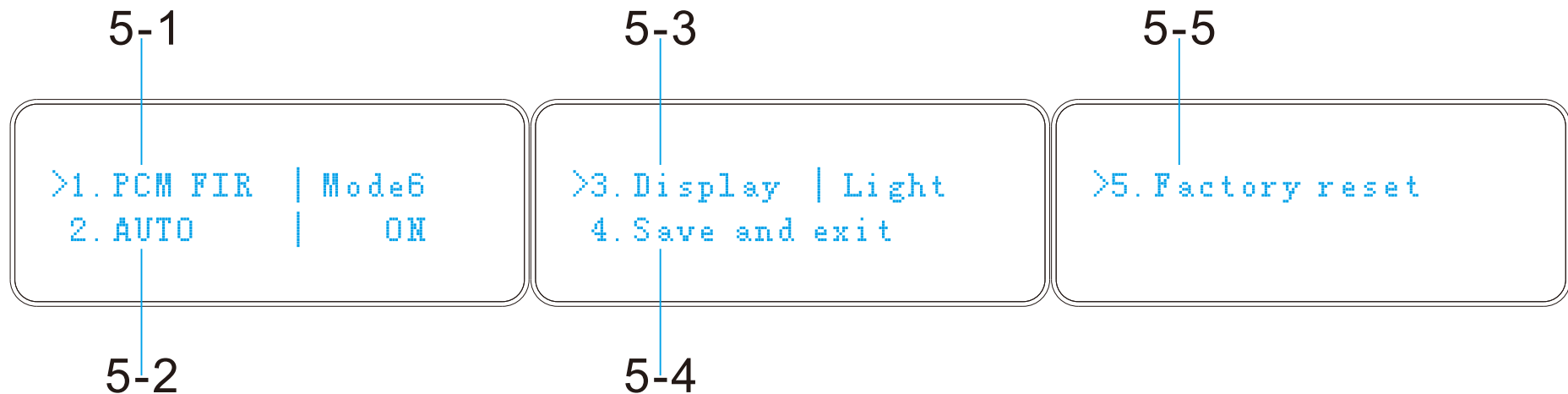
4-5 Output indicator \*

\* ▲: Line Out output and the maximum volume not adjustable;

▼: Headphone amp output;

◆: Headphone amp and Line Out output at the same time.

# System settings introduction



5-1 Filtering setting

5-2 AUTO Power on & off

5-3 Brightness setting of the screen

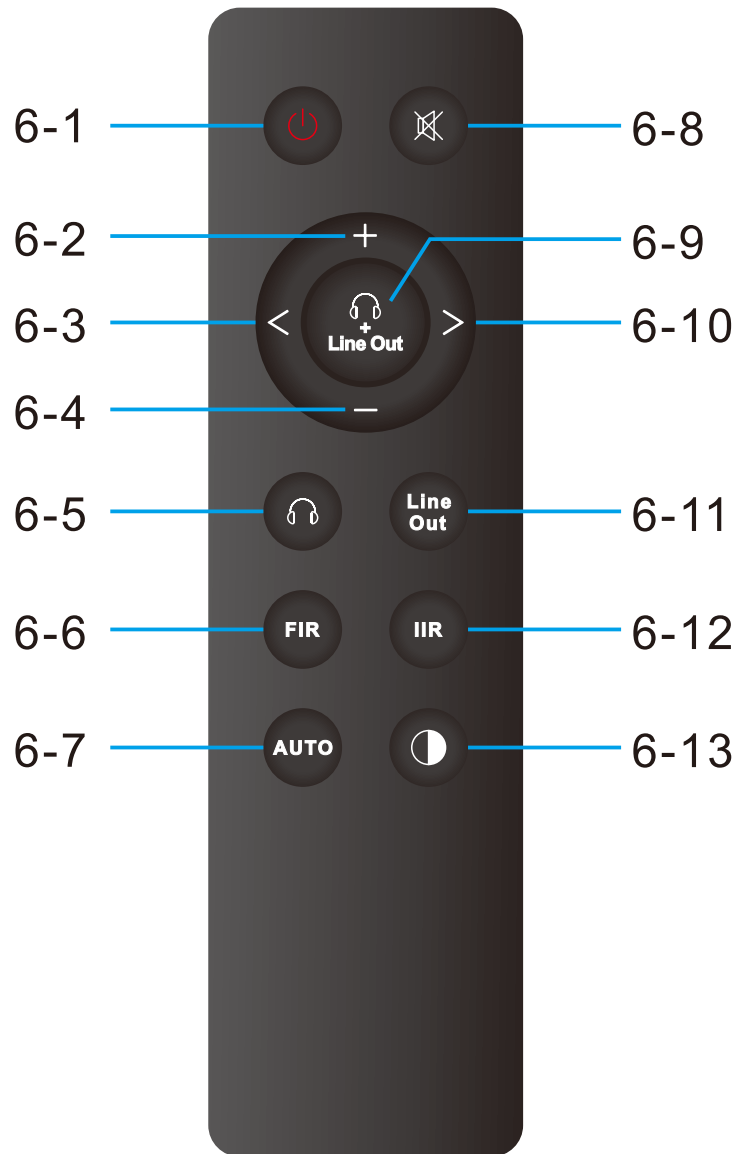
5-4 Save and exit

Save the parameters of system settings and exit system settings interface.

5-5 Factory reset

\* When you press the Multi-function button at powering on will enter the System settings interface.

# Remote control



- 6-1 Standby
- 6-2 Volume up
- 6-3 Switch to previous input
- 6-4 Volume down
- 6-5 Headphone amp output
- 6-6 PCM Filter setting
- 6-7 Auto power on & off
- 6-8 Mute
- 6-9 Headphone amp & Line Out output
- 6-10 Switch to next input
- 6-11 Line Out output
- 6-12 Invalid button
- 6-13 Brightness

(The product does not contain remote control, if necessary, users need to purchase separately.)



## Attribute

Measured	25.0cm x 20.5cm x 5.0cm
Weight	1.95 Kg
Power input	AC110V/AC220V*
Signal input	USB/OPT/AES/COAX
Digital output	COAX
Line Out output	XLR/RCA
Headphone amp output	6.35mm/Balanced output

\*Warning: Please select to your local voltage.

# Spec

## Specifications support

USB IN: 44.1kHz-768kHz/16Bit-32Bit、DSD64-DSD512  
(Native) 、DSD64-DSD256 (DOP)

OPT/AES/COAX IN: 44.1kHz-192kHz/16Bit-24Bit

COAX OUT: 44.1kHz-192kHz/16Bit-24Bit

Analog output		
	LINE OUT RCA	LINE OUT XLR
SNR	>122dB @A-weighting	>123dB @A-weighting
THD+N	<0.0005% @ 1kHz A-weighting	<0.0007% @ 1kHz A-weighting
Frequency Response	20Hz-20kHz(±0.35dB)	20Hz-20kHz(±0.35dB)
Output Voltage	2Vrms @ 0dBFS	4Vrms @ 0dBFS
Output Impedance	100Ω	200Ω
Crosstalk	-127dB @1kHz	-133dB @1kHz

# Spec

Headphone amp output		
	6.35mm headphone output	Balanced headphone output
SNR	>121dB @A-weighting	>120dB @A-weighting
THD+N	<0.0008% @1kHz,RL=300Ω, Output=78mW	<0.0006% @1kHz,RL=300Ω, Output=273mW
Frequency Response	20Hz-20kHz(±0.35dB)	20Hz-20kHz(±0.12dB)
Output Voltage	18Vpp @ 300Ω	36Vpp @ 300Ω
Output Impedance	10Ω	20Ω
Crosstalk	-124dB @1kHz	-129dB @1kHz
Output Power	690mW @ 32Ω THD+N=1% 145mW @300Ω THD+N=1%	1000mW @ 32Ω THD+N=1% 545mW @300Ω THD+N=1%
Recommended Headphone Impedance	16-300Ω	32-600Ω

# Operation

## **Power on & off / standby operation**

- ① Power on & off: Operate the power switch on the rear panel to achieve on & off.
- ② standby setting: Long pressing multi-function button on the front panel or using the remote control's standby button can enter or exit standby mode.

### **Note:**

If the automatic standby function is on, it will automatically enter the standby mode when the current input is not connected or input signal is invalid. Once having detected valid signal, it can automatically return to working state.

# Operation

## Volume setting

- ① Mute setting and volume restoring: Use the mute button on the remote control to set mute, press the mute button again or adjust the volume to restore volume. (This function is only for remote control)
- ② Volume adjusting: Adjust volume by the knob on the panel or up or down button on the remote control.

### **Note:**

Volume is fixed to 0dB in DAC mode and volume adjusting is in this mode.

# Operation

## **Switch the input signal**

Press the multi-function button on the front panel or use the Switch to previous input button and the Switch to next input button on the remote control to switch the input in cycle.

## **Output setting**

Double-click the multi-function button on the front panel or use the Headphone amp output button, Headphone amp & Line Out output button, Line Out output button on the remote control to set the output mode.

# Operation

## Filter setting

The filtering mode of PCM format Audio have Mode1- Mode7. By system settings or filter setting button on the remote control can be to set Mode1、 Mode2、 Mode3、 Mode4、 Mode5、 Mode6、 Mode7 in cycle.

(Mode1 : apodizing fast roll-off filter

Mode2 : minimum phase slow roll-off filter

Mode3 : minimum phase fast roll-off filter

Mode4 : linear phase slow roll-off filter

Mode5 : linear phase fast roll-off filter

Mode6 : brick wall filter

Mode7 : corrected minimum phase fast roll-off filter)

## **Auto standby setting**

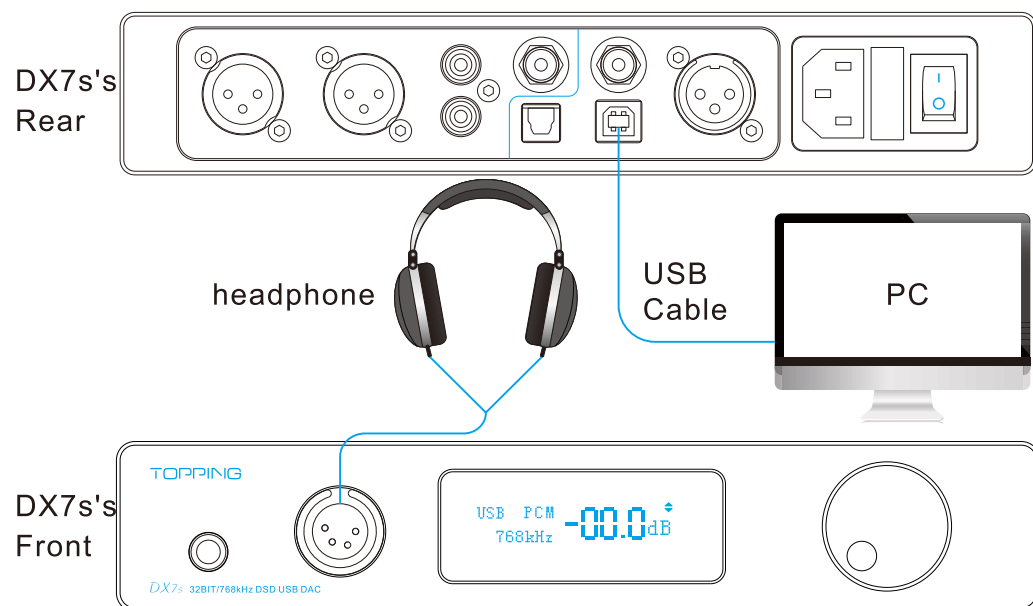
Use the Auto power on & off button on the remote control or by system settings to set this function.

## **Brightness setting of the screen**

Use system settings or the Brightness button on the remote control to set different brightness of the screen.



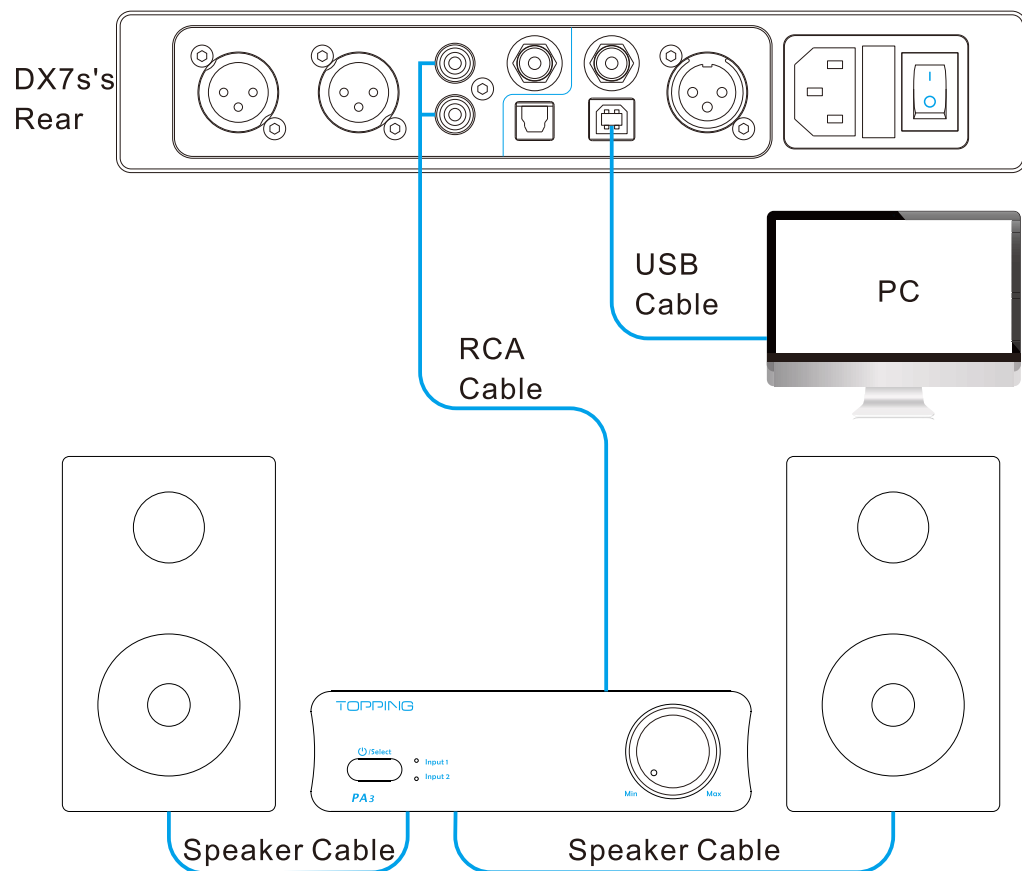
## Instructions for use



### DAC & Headphone amplifier application:

Use a cable (coaxial, optical or USB) to connect DX7s and music resource (PC or a digital player), then select to correct input and connect headphone to DX7s. You can choose Headphone amp mode or Headphone amp & Line Out mode according to your system. Lastly, Maintain the volume so no distortion and will have much better listening experience.

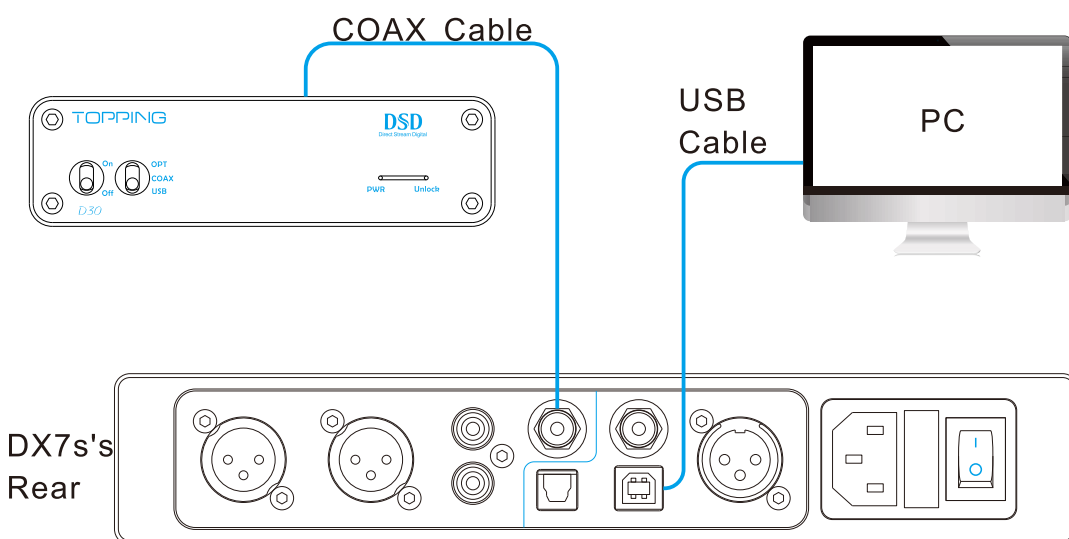
## Instructions for use



### DAC application:

Use a cable (coaxial, optical or USB) to connect DX7s and music resource (PC or a digital player), then select to correct input and adjust DX7s' s output mode to Line Out output. Connect DX7s' s Line Out to a headphone amplifier or a power amplifier or other device. Lastly, Maintain the volume of your headphone amplifier or power amplifier so no distortion and will have much better listening experience.

## Instructions for use



### Digital interface application:

Use the USB cable to connect DX7s and PC. then connect the DX7s's COAX OUT to a DAC. Then you can enjoy the wonderful music.

### Note:

1. COAX OUT can only output 44.1kHz -192kHz / 16Bit-24Bit PCM signal.
2. Even DX7s is not turned on, it can also use as a digital interface.

## Contents list

DX7s	x 1
6.35 mm to 3.5 mm connector	x 1
USB cable	x 1
AC cable	x 1
User's manual	x 1
Warranty card	x 1

**Note: You can download the drivers and user's manual on <http://www.tpdz.net/>.**

# AP test result

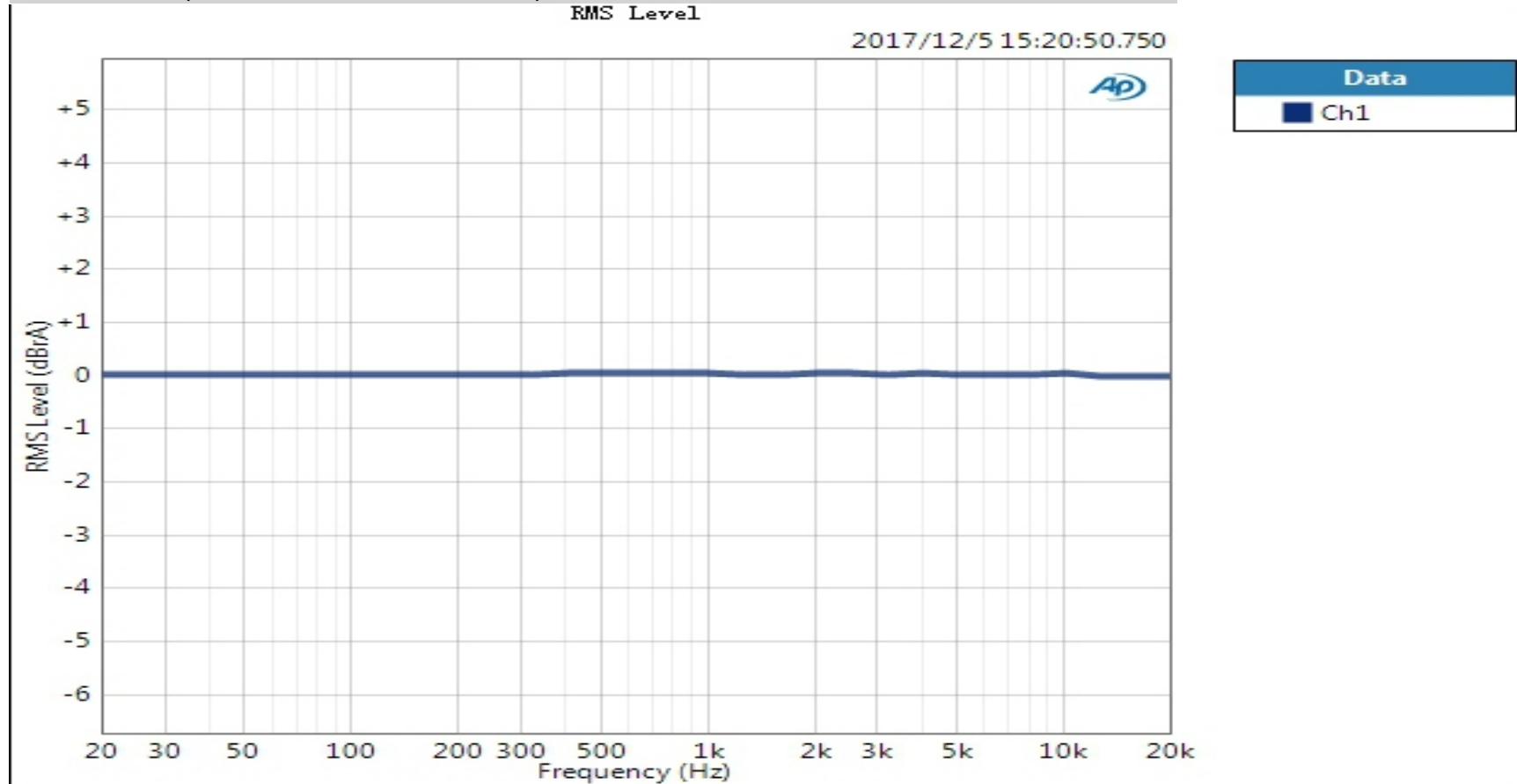
## RMS Level



Bench Mode : Sweep

Measured 1 2017/12/5 15:20:50, DX7s Frequency Response For LineOut-RCA

RMS Level (2017/12/5 15:20:50.750)



# AP test result

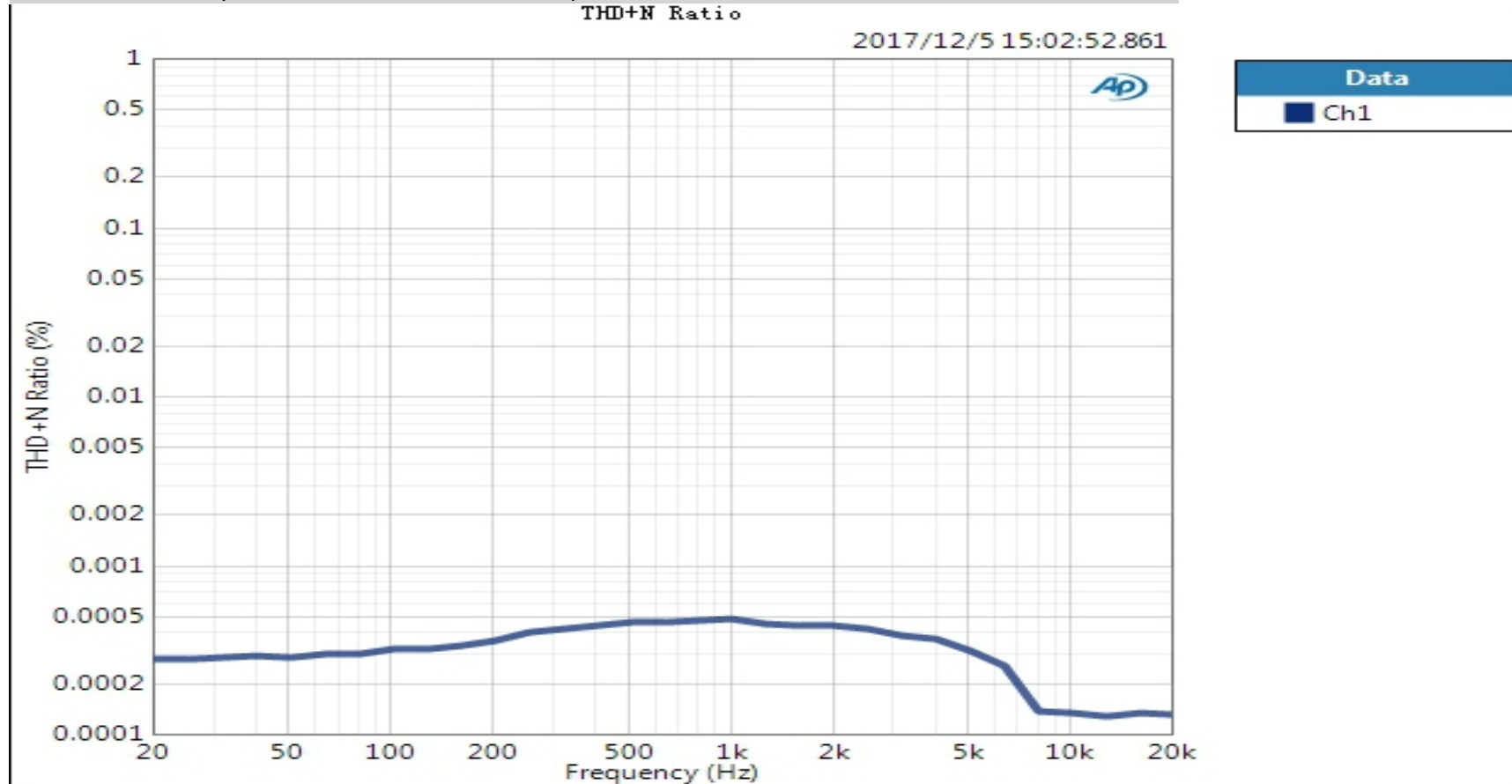
## THD+N Ratio



Bench Mode : Sweep

Measured 1 2017/12/5 15:02:52, DX7s THD+N For Line Out -RCA

THD+N Ratio (2017/12/5 15:02:52.861)



# AP test result

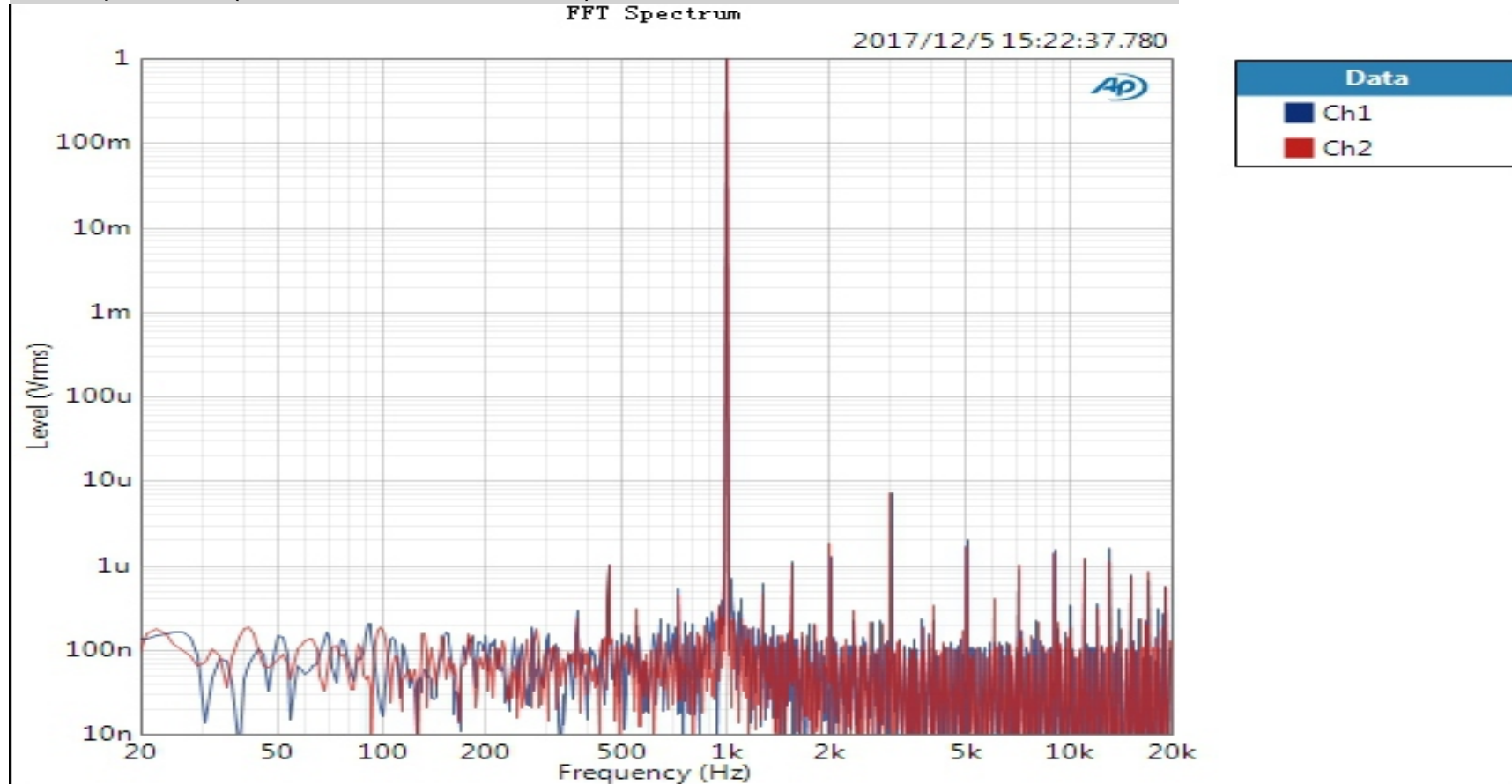
## FFT Spectrum



Bench Mode : FFT

Measured 1 2017/12/5 15:22:37, DX7s FFT For LineOut-RCA@1kHz

FFT Spectrum (2017/12/5 15:22:37.780)



# AP test result

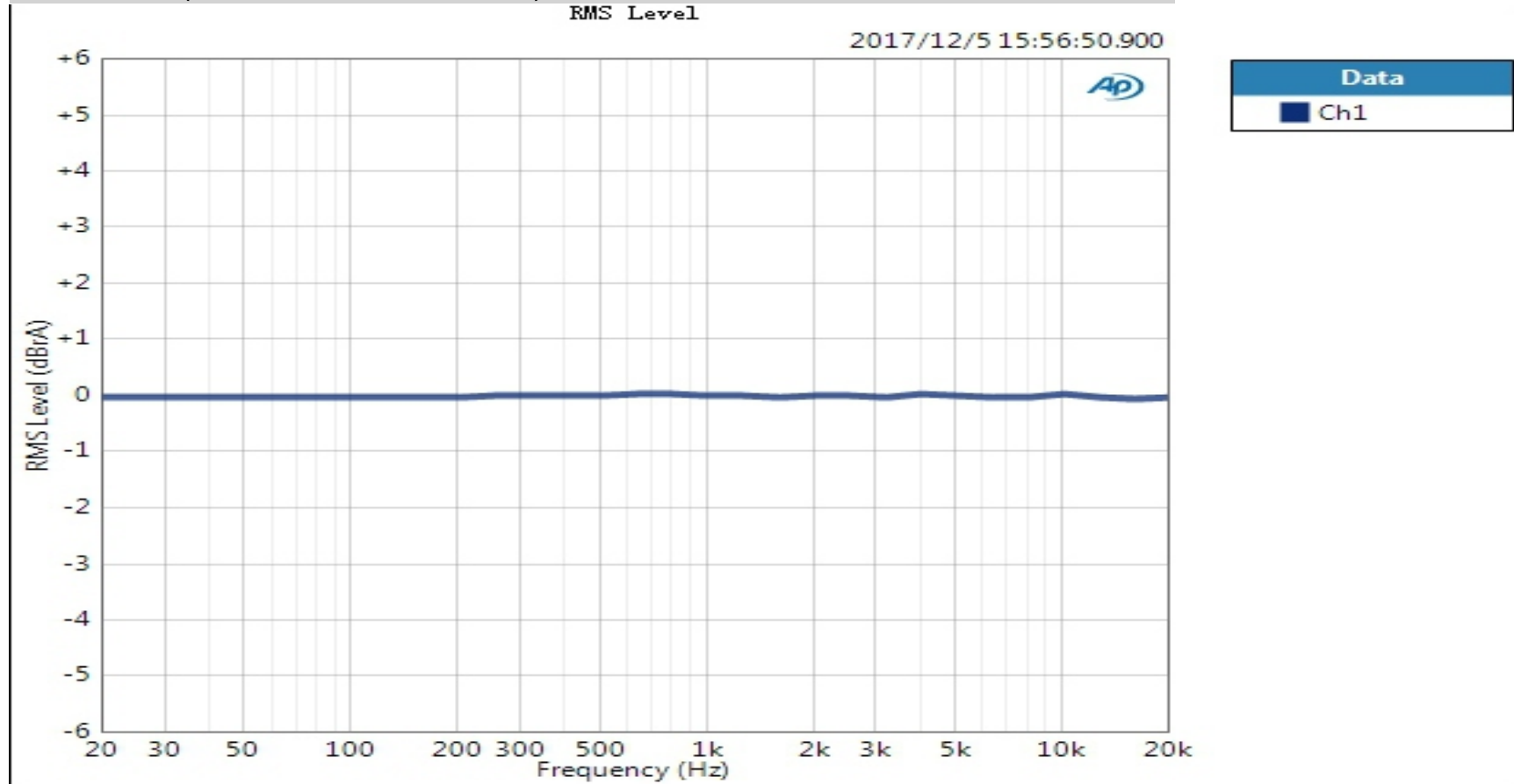
## RMS Level



Bench Mode : Sweep

Measured 1 2017/12/5 15:56:50, DX7s Frequency Response For 6.35mm HP@RL=300Ω

RMS Level (2017/12/5 15:56:50.900)





# AP test result

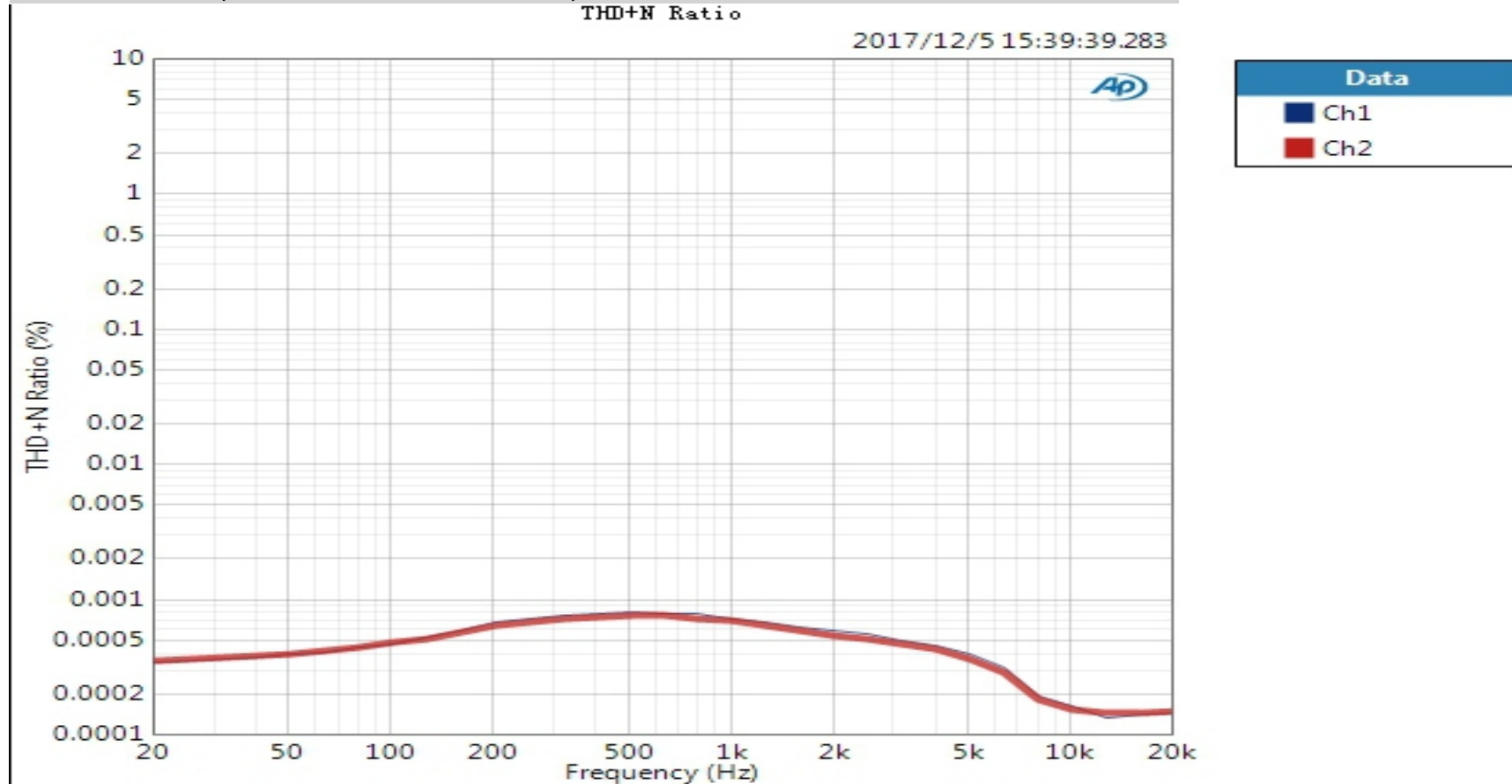
## THD+N Ratio



Bench Mode : Sweep

Measured 1 2017/12/5 15:39:39, DX7s THD+N For 6.35mm HP @RL=300Ω A-weighting

THD+N Ratio (2017/12/5 15:39:39.283)



# AP test result

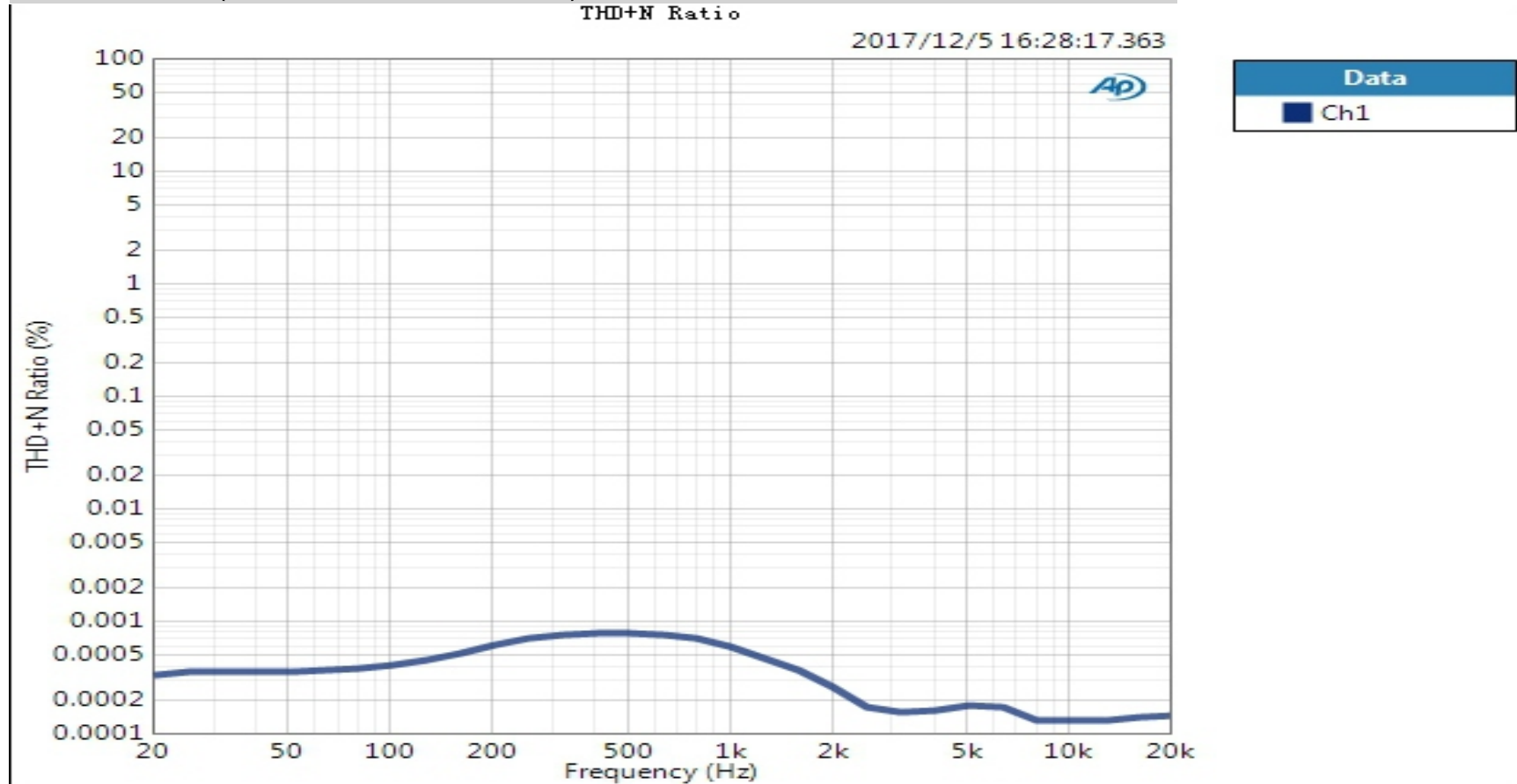
## THD+N Ratio



Bench Mode : Sweep

Measured 1 2017/12/5 16:28:17, DX7s THD+N For XLR HP @RL=300Ω A-weighting

THD+N Ratio (2017/12/5 16:28:17.363)



# AP test result

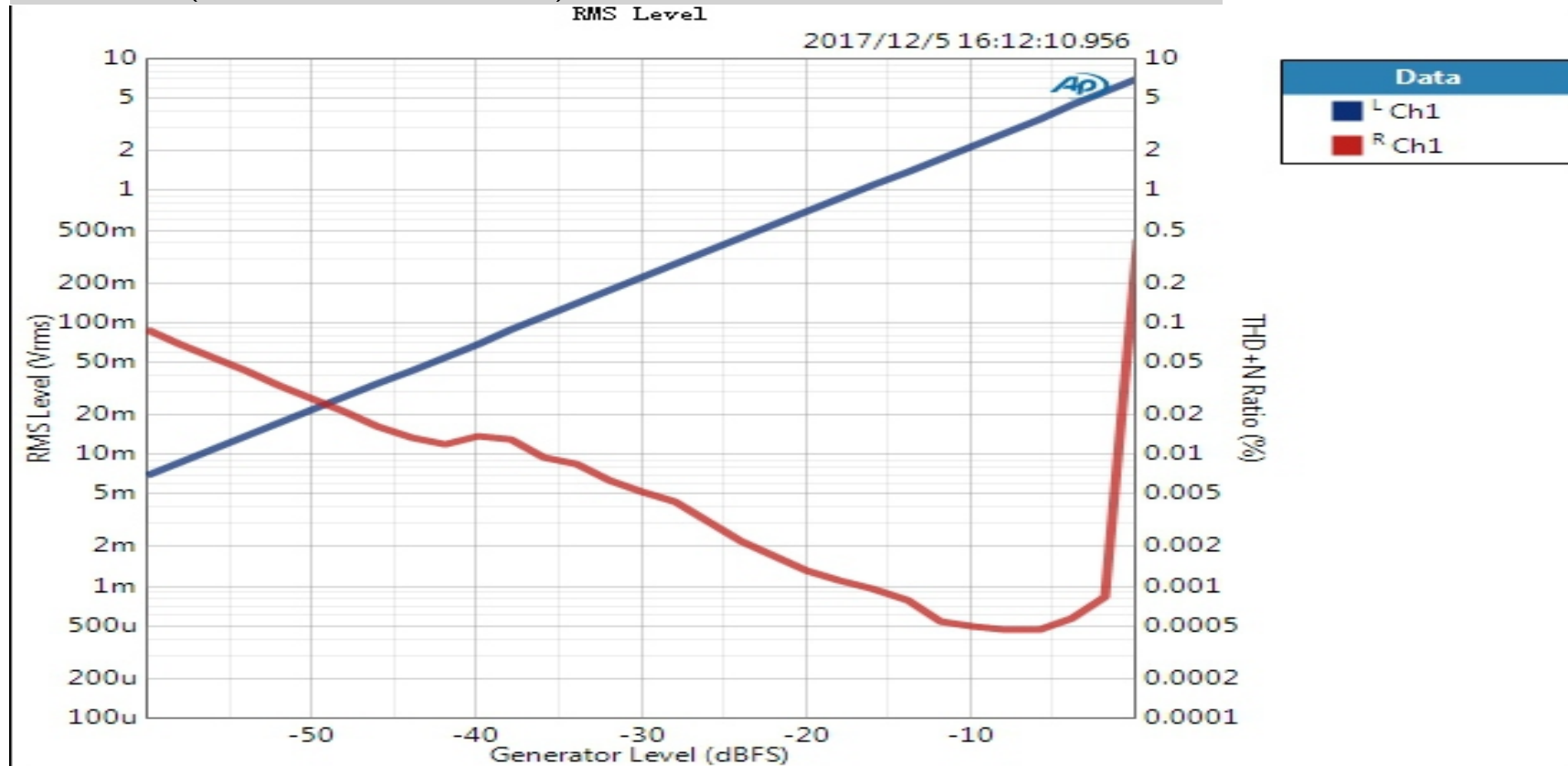
## RMS Level



Bench Mode : Sweep

Measured 1 2017/12/5 16:12:10, DX7s THD+N and Output For 6.35mm HP @RL=300Ω

RMS Level (2017/12/5 16:12:10.956)



RMS Level Parameters

Result Failure Condition: Left Or Right

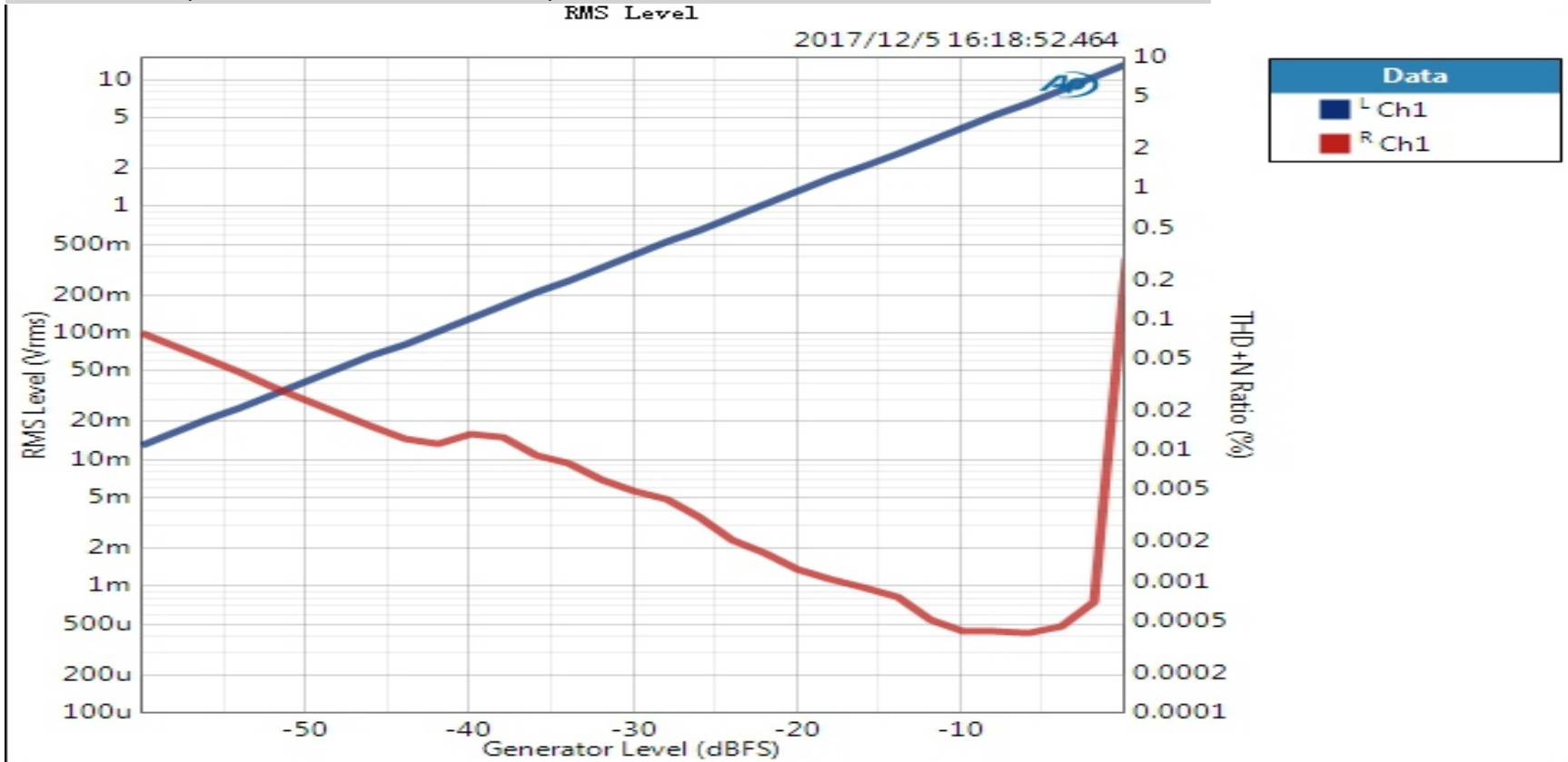
# AP test result

**RMS Level** Audio precision

Bench Mode : Sweep

Measured 1 2017/12/5 16:18:52, DX7s THD+N and Output For XLR HP @RL=300Ω

RMS Level (2017/12/5 16:18:52.464)



RMS Level Parameters

Result Failure Condition: Left Or Right

TOPPING™

Address: 26th Jiaomen Road, Huangge Town,  
Nansha District, Guangzhou, China.

Tel : +86-020-37219489  
Fax : +86-020-37219489  
<http://www.tpdz.net/>