

TOPPING

*DX9*

使用手冊 

User Manual 

說明書 

Model: TP211  
V1.1

# Catalog

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# Contents list

## 1. Contents list

DX9	x 1
Remote control	x 1
USB cable	x 1
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Note: You can download the driver on  
<http://www.topping.audio/>.

## 2. Attribute

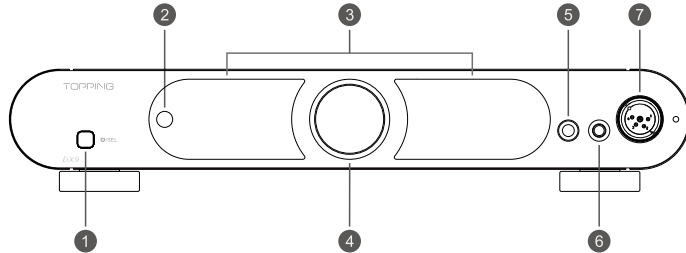
Measured	34.0cm x 22.5cm x 6.0cm (Include protruding parts)
Weight	2750g
Power input	100-240VAC 50Hz/60Hz
Signal input	USB/BT/OPT1/OPT2/COAX1/COAX2/AES/IIS
Line Out output	XLR/RCA
PRE output	XLR/RCA
Headphone Amplifier output	1 x 6.35mm headphone output jack
	1 x 4-PIN-XLR headphone output jack
	1 x 4.4mm headphone output jack
Other connectors	12V Trigger In (3.5mm jack)
	12V Trigger Out (3.5mm jack)
Display	Two 2.0-inch LCDs
Standby power consumption	<2.5W
Power consumption	<18W

### Input range

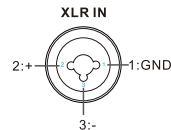
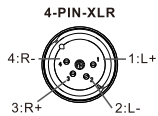
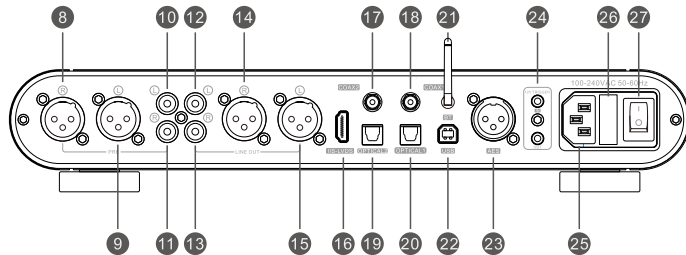
USB IN	PCM 44.1kHz-768kHz/16bit-32bit
	DSD DSD64-DSD512 (Native) , DSD64-DSD256 (DoP)
IIS IN	PCM 44.1kHz-768kHz/16bit-32bit
	DSD DSD64-DSD512 (Native)
COAX/OPT/AES IN	PCM 44.1kHz-192kHz/16bit-24bit
	DSD DSD64 (DoP)
BT IN	AAC/SBC/APTX/APTX HD/APTX-Adaptive/LDAC

# Attribute

## Front panel



## Rear panel



- 1 Multifunction button
- 2 Remote control receiver
- 3 Screen
- 4 Volume knob & User-defined button  
Rotate the knob: Adjust the volume.  
Press the knob: User-defined function. Please set it at [Setup Menu-Advanced-Button].
- 5 6.35mm headphone output jack
- 6 4.4mm balanced headphone output jack
- 7 4-PIN-XLR headphone output jack
- 8 Right channel balanced XLR preamp output
- 9 Left channel balanced XLR preamp output
- 10 Left channel single-ended RCA preamp output
- 11 Right channel single-ended RCA preamp output
- 12 Left channel single-ended RCA Line Out output
- 13 Right channel single-ended RCA Line Out output
- 14 Right channel balanced XLR Line Out output
- 15 Left channel balanced XLR Line Out output
- 16 IIS input

- 17 Coaxial SPDIF input 2
- 18 Coaxial SPDIF input 1
- 19 Optical SPDIF input 2
- 20 Optical SPDIF input 1
- 21 Bluetooth receiver
- 22 USB input
- 23 AES input
- 24 12V Trigger IN/OUT

The 12V Trigger IN/OUT allows the DX9 to be activated by other devices or to activate other devices via a 3.5mm AUX cable. The upstream device connected to Trigger In can control the power on/standby of DX9, and the downstream device connected to Trigger Out can be controlled by DX9.

\*Before using the Trigger IN function, you need to set the [Setup Menu-On/Off trigger] to "12V"

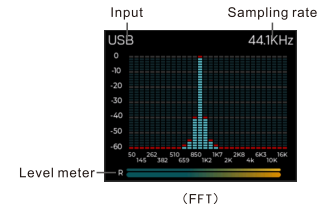
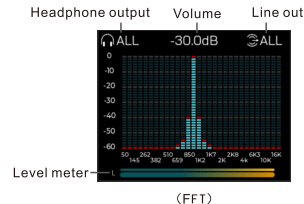
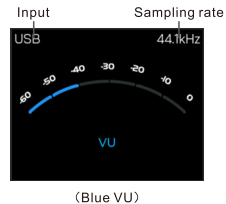
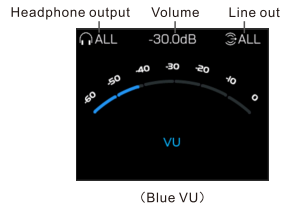
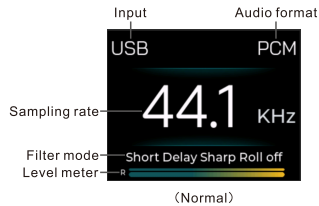
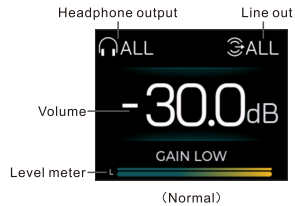
- 25 Power input (AC 100-240V 50Hz/60Hz)
- 26 Fuse
- 27 Power switch

# Attribute

## Display

There are three types of homepage display: Normal, VU and FFT, which are set in the menu [SETUP - Display - Home]. There are two types of VU Meter styles: classic and blue, which can be switched in the menu [SETUP - Display - VU style].

## PRE mode



\*The VU meter, FFT and Level meter on the left and right screens display the balanced output amplitude of the Line Out of the left and right channels (unaffected by the volume control). The 0dB in the blue VU meter, Level meter, and FFT is 4.2Vrms, and the 0dB in the classic meter is +4dBu or +10dBu. It can be set in the menu [Setup Menu-Display-Classical VU 0dB]

\*VU Meter, FFT and Level meter do not support DSD512.

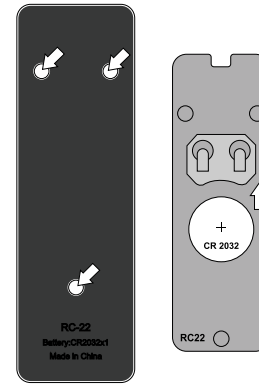
# Attribute

## Remote control



\*See "8. On/Off trigger" in the "Setup Menu", below.  
#See "1-2 Brightness" in the "Setup Menu", below.

## Install remote control

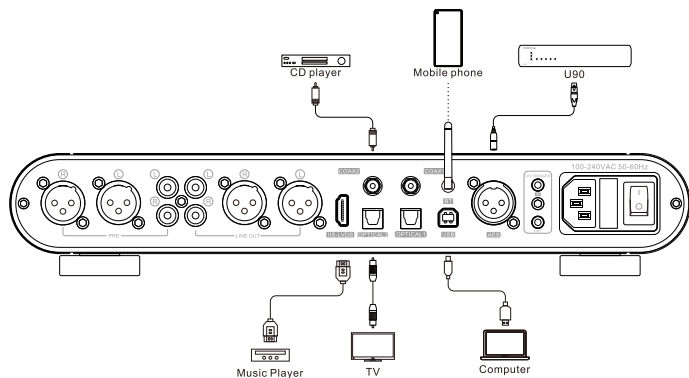


1. Use the included H1.27 screwdriver to remove the three screws on the back.
2. Insert the CR2032 button cell (not included) in the direction of the arrow .
3. Install according to the original path.

## 3. Connection

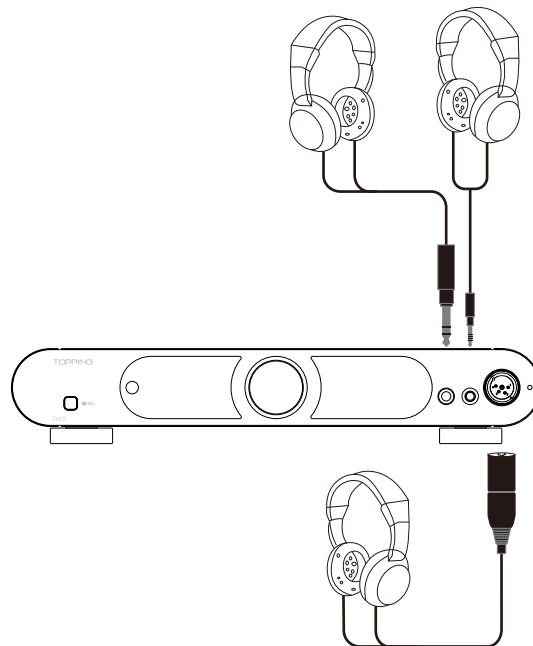
### Connect to the input source

Support IIS,USB, Coaxial, Optical, Bluetooth, AES input.



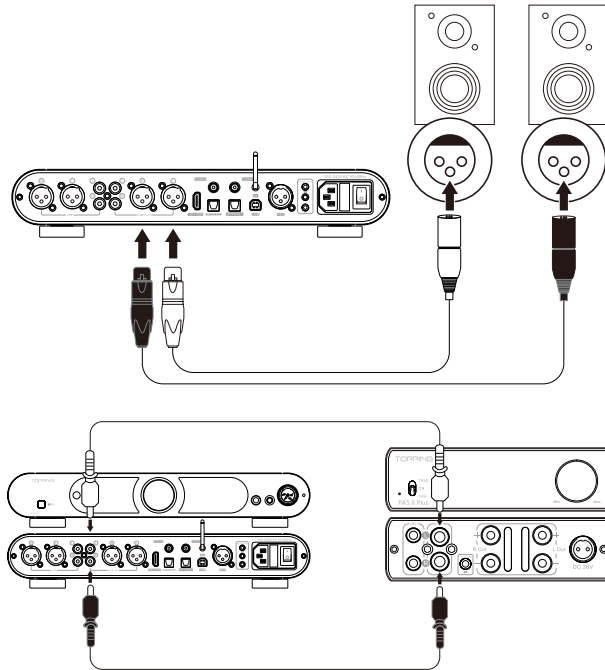
### Connect to headphone

Three types of headphone jacks are available: XLR-4, 4.4mm and 6.35mm.



## Connect to amplifier or active speakers

Use XLR or RCA cables to connect to power amplifier or active speakers. In order to avoid damage to your devices, please turn off the amplifier or active speakers before you connect them to DX9.



## 4. Operation

### Power on & off / standby operation

(1) Power on & off: Press the power switch on the rear panel to turn DX9 on or off.

(2) Standby setting:

When it is working, press and hold the multifunction button (◻) on the front panel to enter standby state and press to exit standby state when it is standby. Or you can press the standby button on remote control (⏻) to enter or exit standby state.

### Output setting

① Set output mode first (press and hold the center button of the remote control) ([Setup menu-Output mode])

HPA: Only the front panel headphone jack has output.

Line Out: Only the rear panel Line Out connector has output.

PRE: Only the rear panel PRE connector has output.

ALL: Headphone jack, Line Out connector and preamp connector output simultaneously.

② Selects the output channel based on the selected output mode

Headphone output: [Setup menu - HPA output]; or press the remote button (🎧) to select: XLR / 4.4mm / 6.35mm / ALL / turn off

Line out: [Setup menu - Line out]; or press the remote button (Line Out) to select: RCA / XLR / ALL / turn off






PRE output: [Setup menu - PRE output]: RCA / XLR / ALL / turn off

Note: You can also choose to turn off an output channel when output mode select All, in which case no signal is output from that channel.





# Setup Menu

## Volume setting

- (1) Mute and unmute: Press the mute button  on the remote control to mute DX9, press the mute button again or adjust the volume to exit mute state.
- (2) Volume adjusting: You can turn the volume knob or press the  or  button on the remote control to adjust the volume. Note that long pressing the  and  buttons on the remote control will quickly change the volume, so please be careful in order to protect your hearing.
- Note: Volume is fixed to 0dB in DAC mode and volume adjusting is invalid in this mode. [Setup menu-Advanced-DAC mode]


## Input channel switching

Press the  or  button on the remote control to switch the input in cycle. You could also switch the input channel by pressing the knob, but note that you need to set [Setup Menu-Advanced-Button] to "Input select".

## 5. Setup Menu

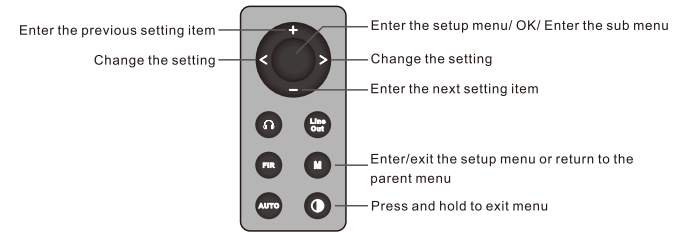
### Enter menu and change settings

#### The button on the front panel

Press  : Enter/exit the setup menu or return to the parent menu

Rotate the knob: Choose setting item

Press the knob: Change the setting/OK/Enter the sub menu



#### Overview

<b>SETUP</b>		<b>Display</b>	
1	Display	>	1-1 Home Normal
2	Input	USB	1-2 Brightness Medium
3	Out mode	ALL	1-3 VU style Classic
4	HPA output	ALL	1-4 Classic VU 0dB +4dBu
5	PRE output	ALL	1-5 Level meter All on
6	Gain	Low	1-6 Screen Normal
7	On/Off trigger	Signal	1-7 LED Medium
8	PCM filter	F.1	1-8 Return
9	DSD filter	F.1	
10	Advanced	>	<b>Advanced</b>
11	Language	English	11-1 Channel balance C
12	Factory reset		11-2 DAC mode PRE
13	Return		11-3 Bluetooth Enable
			11-4 Remote Enable
			11-5 Button Input select
			11-6 USB UAC 2.0
			11-7 IIS Phase STD
			11-8 IIS DSDR LRCK
			11-9 IIS DSD Flag Pin15
			11-10 IIS MUTE OFF
			11-11 DSD bypass Disabled
			Return

# Setup Menu

## 1. Display

### 1-1 Home

Choose home page  
Normal (Default) , VU, FFT

### 1-2 Brightness

Low, Medium (Default), High, Auto  
Auto has the same brightness as Medium. The difference is that when there is no operation after 30 seconds under Auto mode, the screen will be automatically turned off and only display the current input. You can press any button to light up the screen.

### 1-3 VU style

Select VU meter style  
Classic (Default) , Blue

### 1-4 Classic VU 0dB

Set 0dB reference voltage for VU meter. For example, if set to +4dBu, when the pointer swings to 0dB, the current output level of the DX9 is +4dBu.  
+4dBu (Default) , +10dBu

### 1-5 Level meter

Turn on/off the VU meter, or display the VU meter on a separate home screen.  
All on (Default) , Normal page, FFT page, All off

### 1-6 Screen

Switch left and right interface displays  
Normal (Default) , Inverted

### 1-7 LED

Selecting DX9 internal light brightness  
Low, Medium (Default) , High, OFF

## 2. Input select

USB (Default) , BT, OPT1, COAX1, OPT2, COAX2, IIS, AES  
See "Output settings" in the "Operation", above.

## 3. Out mode

ALL (Default) , HPA, Line Out, PRE  
See "Output settings" in the "Operation", above.

## 4. HPA output

ALL (Default) , OFF, 6.35, 4.4, XLR  
See "Output settings" in the "Operation", above.

## 5. Line out

ALL (Default) , OFF, RCA, XLR  
See "Output settings" in the "Operation", above.

## 6. PRE output

ALL (Default) , OFF, RCA, XLR  
See "Output settings" in the "Operation", above.

## 7. Gain

Gain settings for headphone amplifier and preamplifier  
Low (Default) , High

## 8. On/Off trigger

Signal (Default) : Input signal will trigger the device to turn on, but if the current input is not connected or input signal is invalid in 1 minute, it will automatically enter the standby state. Once having detected valid signal, it will automatically return to working state.

12V: 12V signal will trigger the device to turn on. When DX9's Trigger In is connected to another device's 12V Trigger Out, DX9's on/standby state can be controlled through this device. The DX9 will remain in standby state until Trigger In detects the signal change from 0V to 12V. When changing back to 0V, the DX9 will return to standby state.

Off: Disabled this function.

## 9. PCM filter

F-1: Sharp Roll off  
F-2: Slow Roll off  
F-3 (Default) : Short Delay Sharp Roll off  
F-4: Short Delay Slow Roll off  
F-5: Super Slow Roll off  
F-6: Low Dispersion Short Delay

# Setup Menu

## 10. DSD filter

### Setting the cut-off frequency of the filter

F-1 (Default) : cut-off frequency: 37kHz (DSD64) 74kHz (DSD128)

238kHz (DSD256) 476kHz (DSD512)

F-2: cut-off frequency 65kHz (DSD64) 131kHz (DSD128) 238kHz (DSD256)  
476kHz (DSD512)

## 11. Advanced

### 11-1 Channel balance

Setting range: C (Balance) , L+0.5~9.5dB or R+0.5~9.5dB. (Default: C)

\*When using the knob, press the knob to enter the setting, rotate the knob to set the value, and press the knob again to exit the setting.

### 11-2 DAC mode

PRE (Default) : Volume is adjustable.

DAC: Keep the maximum volume output and the volume is not adjustable.

Note: When DAC mode is turned on, the outputs must select Line Out only for DAC mode to take effect.

### 11-3 Bluetooth

Enabled (Default) , Disabled

### 11-4 Remote

Enabled (Default) , Disabled

### 11-5 Button

Customize the function of the press knob.

Input select (Default) , Output select, Home select, Brightness select, Dim the screen, Output mode select, Filter select, Mute

### 11-6 USB

USB protocol version selection

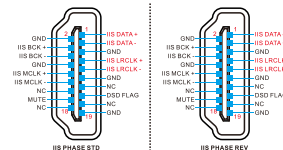
UAC 1.0, UAC 2.0 (Default)

### 11-7 IIS Phase

IIS interface phase setting

STD: Standard phase (Default)

REV: Reverse phase



### 11-8 IIS DSDR

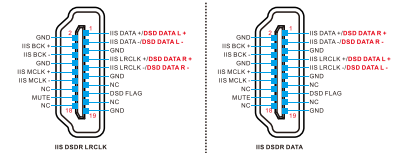
DSD channel setting for the

IIS interface

LRCLK : DSDR using LRCLK

(Default)

DATA : DSDR using DATA

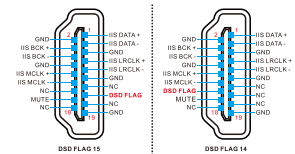


### 11-9 IIS DSD Flag

DSD flag bit setting for the IIS interface

Pin 15: Set pin 15 as the flag bit (Default)

Pin 14: Set pin 14 as the flag bit



### 11-10 IIS MUTE

When using the IIS interface, noise appears when switching the sample rate, you can turn it on to eliminate the noise.

ON (Default) , OFF

### 11-11 DSD bypass

Disabled (Default) : Disable DSD bypass

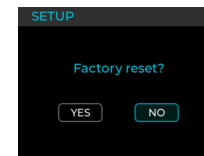
Enabled: Playing DSD music on the Line out output in DAC mode will pass through to the Line out output.

## 12. Language

English, 中文

## 13. Factory reset

Select factory reset will have a pop-up, select Yes/No (blue for selected), then press the middle button on the remote or the front-panel knob to confirm.



## 6. Trouble shooting

Phenomenon	Cause	Solution
No sound	Wrong input was selected	Select the correct input
	Wrong output was selected	Select the correct output
	Incorrect cable connections	Check and reconnect
	Sound is muted	Turn up the audio
	Audio source no output	Adjust or check it
USB did not recognize	USB cable did not connect properly	Check or change the cable
	PC's USB port damaged	Change another port
	The PC does not work	Check or try with another PC
	The OTG function of the phone is not enabled	Enable OTG function
USB input, no sound	Too low volume on PC	Adjust volume
	Dx9 is not selected as the output device on the PC	Set the DX9 as the default output device
Cannot pair DX9 Bluetooth	Bluetooth is disabled on DX9	Enable Bluetooth in the setup menu [Setup menu-Advanced-Bluetooth]
	DX9 is already connected to other Bluetooth device	Let DX9 enter pairing mode first.
	Weak signal due to long distance	Take the device closer to DX9 and connect again
Bluetooth input, no sound	Too low volume on phone	Adjust volume
DAC abnormal	DAC abnormal	Do not connect the DX9 to any other devices, unplug and re-plug the power cable and reboot the unit.
DIR abnormal	DIR abnormal	
FFT module abnormal	FFT module abnormal	
HP BAL L abnormal	Headphone amplifier balanced channel direct flow anomaly	Power off and restart after turning down the volume and not connecting any inputs or outputs.
HP SE abnormal	Headphone amplifier single-ended channel direct flow anomaly	

If you still have problems or questions, please contact us ([service@tpdz.net](mailto:service@tpdz.net))

## 7. Precautions

1. Do not keep the unit in a hot, humid environment or hit the unit strongly.
2. Opening the case instantly voids the warranty!
3. Indoor use only.
4. Topping accepts no liability for any loss or damage arising directly or indirectly from the failure of DX9.
5. For improvement purpose, specifications subject to changes without prior notice.

## 8. Specifications

DX9 DAC PARAMETERS (LineOut/USB In@96kHz)		
	RCA	XLR
THD+N @1kHz (A-wt)	<0.00008%	<0.00007%
THD @20-20kHz 90kBw	<0.00015%	<0.00015%
SNR @1kHz (A-wt)	127dB	131dB
Dynamic Range @1kHz (A-wt)	127dB	131dB
Frequency Response	20Hz-20kHz (±0.2dB)	20Hz-20kHz (±0.2dB)
	20Hz-40kHz (±0.6dB)	20Hz-40kHz (±0.6dB)
Output Level	2.1Vrms @0dBFS	4.2Vrms @0dBFS
Noise (A-wt)	<1.0uVrms	<1.3uVrms
Channel Crosstalk	-125dB @1kHz	-125dB @1kHz
Channel Balance	0.3 dB	0.3 dB
Output Impedance	50Ω	100Ω

\*Note: The above data is the result of the test in TOPPING laboratory under AC220V 50Hz condition.

# Specifications

DX9 Headphone Amplifier specifications (USB In@96kHz)		
	Single-end headphone jack	Balance headphone jack
THD+N @1kHz (A-wt)	<0.00010% @Output=550mW (32Ω)	<0.00007% @Output=550mW (32Ω)
	<0.00008% @Output=60mW (300Ω)	<0.00007% @Output=60mW (300Ω)
THD @20-20kHz 90KBW	<0.00060% @Output=550mW (32Ω)	<0.00050% @Output=550mW (32Ω)
	<0.00030% @Output=60mW (300Ω)	<0.00030% @Output=60mW (300Ω)
SNR @MAX OUT 1kHz (A-wt)	131dB @1kHz	132dB @1kHz
Dynamic Range @1kHz (A-wt)	131dB @1kHz	132dB @1kHz
Frequency Response	20Hz-20kHz (±0.2dB)	20Hz-20kHz (±0.2dB)
	20Hz-40kHz (±0.6dB)	20Hz-40kHz (±0.6dB)
Output Level	12Vpp @G=L	12Vpp @G=L
	24Vpp @G=H	47Vpp @G=H
Noise (A-wt)	<1.6uVrms @G=L	<1.3uVrms @G=L
	<2.4uVrms @G=H	<4.2uVrms @G=H
Channel Crosstalk	-98dB @1kHz	-121dB @1kHz
Gain	G=L 12.5dB (Vrms/FS)	G=L 12.5dB (Vrms/FS)
	G=H 18.5dB (Vrms/FS)	G=H 24.5dB (Vrms/FS)
Channel Balance	0.3 dB	0.3 dB
Output Impedance	<0.1Ω	<0.1Ω
Output Power	3300mW x 2 @16Ω THD+N<1%	10000mW x 2 @16Ω THD+N<1%
	2100mW x 2 @32Ω THD+N<1%	7080mW x 2 @32Ω THD+N<1%
	1190mW x 2 @64Ω THD+N<1%	4250mW x 2 @64Ω THD+N<1%
	240mW x 2 @300Ω THD+N<1%	950mW x 2 @300Ω THD+N<1%
		460mW x 2 @600Ω THD+N<1%
Load impedance	>8Ω	>8Ω

\*Note: The above data is the result of the test in TOPPING laboratory under AC220V 50Hz condition.

# Specifications

DX9 Pre-amplifier specifications (USB In@96kHz)		
	RCA	XLR
THD+N @1kHz (A-wt)	<0.00008%	<0.00007%
THD @20-20kHz 90kBW	<0.00025%	<0.00020%
SNR @MAX OUT 1kHz (A-wt)	127dB @1kHz	132dB @1kHz
Dynamic Range @1kHz (A-wt)	127dB @1kHz	132dB @1kHz
Frequency Response	20Hz-20kHz (±0.2dB)	20Hz-20kHz (±0.2dB)
	20Hz-40kHz (±0.6dB)	20Hz-40kHz (±0.6dB)
Output Level	12Vpp @G=L	12Vpp @G=L
	24Vpp @G=H	47Vpp @G=H
Noise (A-wt)	<1.9uVrms @G=L	<1.3uVrms @G=L
	<2.8uVrms @G=H	<4.2uVrms @G=H
Channel Crosstalk	-112dB @1kHz	-121dB @1kHz
Gain	G=H 18.5dB (Vrms/FS)	G=H 24.5dB (Vrms/FS)
	G=H 18.5dB (Vrms/FS)	G=H 24.5dB (Vrms/FS)
Channel Balance	0.3 dB	0.3 dB
Output Impedance	<50Ω	<100Ω

\*Note: The above data is the result of the test in TOPPING laboratory under AC220V 50Hz condition.