TOPPING

TP211

使用手册
User Manual
説明書

Model: TP211

V1.0

Catalog

1. Contents list

TP211	x 1
Remote control	x 1
USB cable	x 1
AC cable	x 1
Bluetooth antenna	x 1
6.35mm to 3.5mm Adaptor	x 1
Product Information Card	x 1

Note: You can download the driver and user manual 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 LCD
Standby power consumption	<2.5W
Normal working 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

Front panel

Rear panel

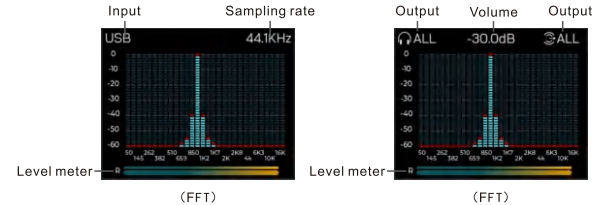**4-PIN-XLR**
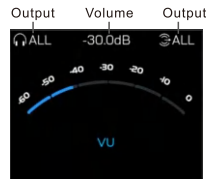4:R-   1:L+
3:R+   2:L-

XLR IN
2:+   1:GND
3:-
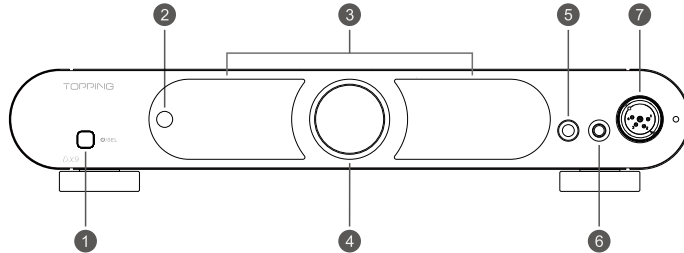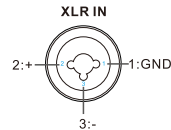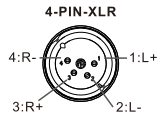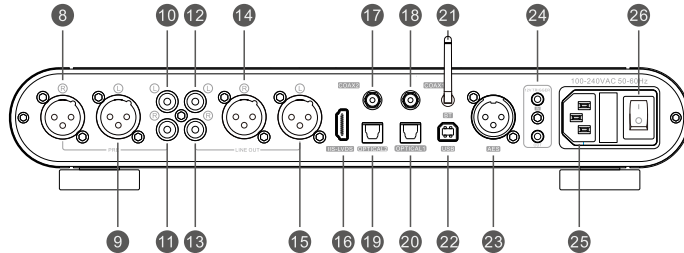
1 Multifunction button
2 Remote control receiver
3 Screen
4 Volume knob & User-defined button
   Rotate the knob: Adjust the volume.
   Press the knob: User-defined function. Please set it at [Setup Menu-Advanced-Button].
5 6.35mm headphone output jack
6 4.4mm balanced headphone output jack
7 4-PIN-XLR 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 outpu
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 D70 Pro SABRE to be activated by other
    devices or to activate other devices via a 3.5mm AUX cable. The connected
    device must be equipped with a 12V Trigger In/Out to use this feature.
    *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 Power switch

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

Input Audio format Output Output
Sampling rate Volume
Sampling rate
Level meter Level meter
（Normal） （Normal）

（Classic VU） （Classic VU）

Input Sampling rate Output Volume Output
（Blue VU） （Blue VU）

Input Sampling rate Output Volume Output
Level meter Level meter
（FFT） （FFT）
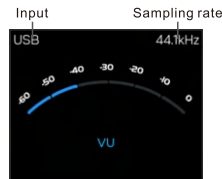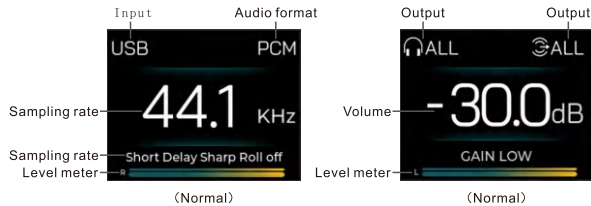
*The VU meter, FFT and Level meter on the left and right screens display the balanced output amplitude of the Line Out of the left and right channels（unaffected by the volume control）. The 0dB in the blue VU meter, Level meter, and FFT is 4.2Vrms, and the 0dB in the classic meter is +4dBu or +10dBu. It can be set in the menu [Setup Menu-Display-Classic VU 0dB]
*VU Meter, FFT and Level meter do not support DSD512.

Remote control

Standby Mute
Enter menu(方式1)/Press and hold to switch output
Volume up
Switch to previous input Switch to next input
Volume down
headphone amplifier Output channel switching/Press and hold to switch gain Line Out channel switching/Press and hold to enter pairing mode
Filter setting Enter menu（方式2）
On/Off trigger* Brightness#/ Press and hold to switch home page

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

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3. Connection

Connect to the input source

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

CD player

Mobile phone

U90

100-240VAC 50-60Hz

TV

Computer

Connect to headphone

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

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Connect to amplifier or active speakers

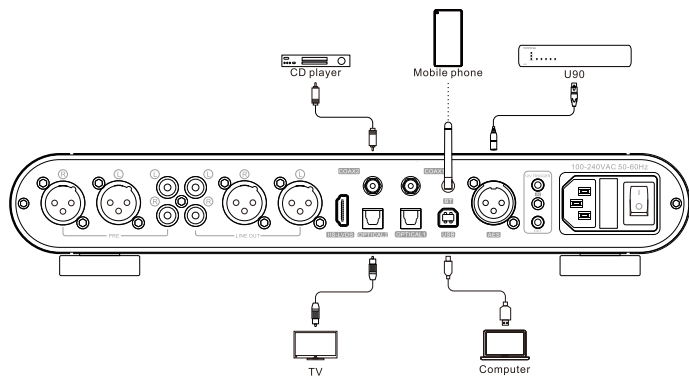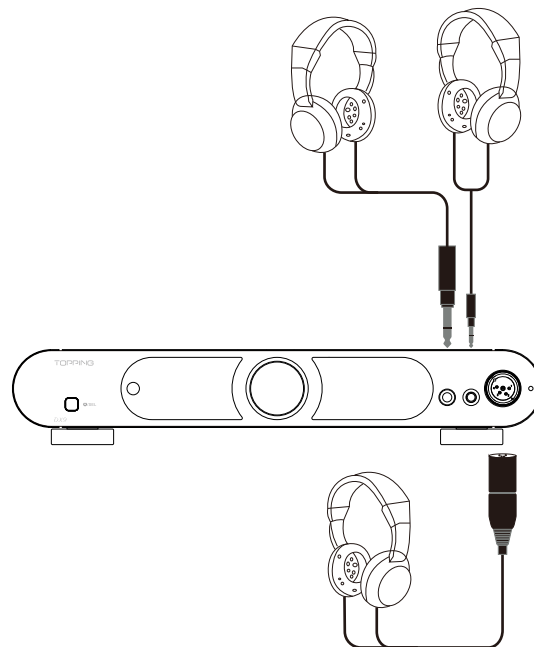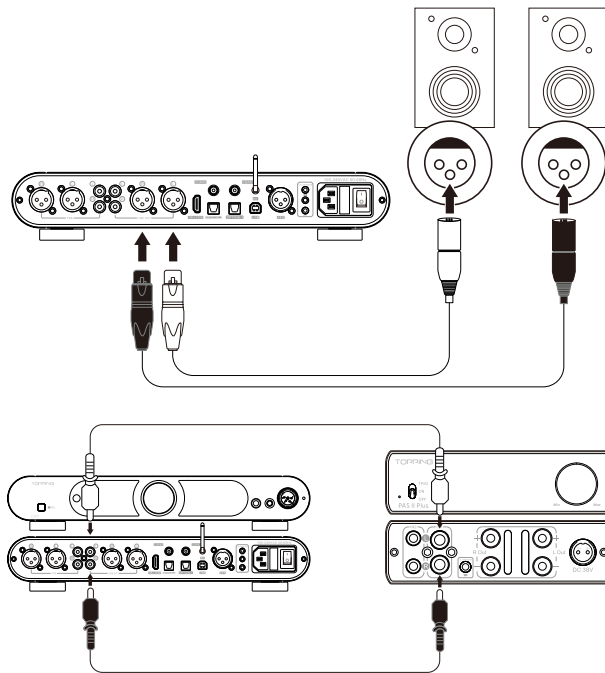Use XLR or RCA cables to connect to power amplifier or active speakers. In order to avoid damage to your devices, please turn off the amplifier or active speakers before you connect them to TP211.

4. Operation

Power on & off / standby operation

（1）Power on & off: Press the power switch on the rear panel to turn TP211 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 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.

Volume setting

（1）Mute and unmute: Press the mute button on the remote control to mute TP211, press the mute button again or adjust the volume to exit mute state.

Volume setting

（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

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

The remote control

Enter the previous setting item — Enter the setup menu/ OK/ Enter the sub menu
Change the setting — Change the setting
Enter the next setting item
Return to the parent menu/Exit setup menu
长按退出菜单

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, 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 TP211 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, Inverted
1-7 **LED**
 Selecting TP211 internal light brightness
 Low, Medium, High, OFF

2. nput 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, OFF, 6.35, 4.4, XLR
See "Output settings" in the "Operation", above.

5. Line out

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

6. PRE output

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

7. Gain

Gain settings for headphone amplifier and preamplifier
Low, 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 TP211's Trigger In is
 connected to another device's 12V Trigger Out, TP211's on/standby state can
 be controlled through this device. The TP211 will remain in standby state until
 Trigger In detects the signal change from 0V to 12V. When changing back to
 0V, the TP211 will return to standby state.
Off: Disabled this function.

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9. PCM filter

F-1：Fast roll off linear
F-2：Fast roll off minimum
F-3（Default）：Slow roll off linear
F-4：Slow roll off minimum
F-5：No over sampling
F-6：Ultra-fast roll off linear

10. DSD 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, Filter select, Mute, Input select

11-6 **USB**
   USB protocol version selection
   UAC 1.0, UAC 2.0
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）
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, OFF

12. Language

English、中文
Scan the QR code on the right for the video.

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
	TP211 is not selected as the output device on the PC	Set the TP211 as the default output device
Cannot pair TP211 Bluetooth	Bluetooth is disabled on TP211	Enable Bluetooth in the setup menu [Setup menu-Advanced-Bluetooth]
	TP211 is already connected to other Bluetooth device	Let TP211 enter pairing mode first.
	Weak signal due to long distance	Take the device closer to TP211 and connect again
Bluetooth input, no sound	Too low volume on phone	Adjust volume
DAC abnormal	DAC abnormal	Do not connect the TP211 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）

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 TP211.
5. For improvement purpose, specifications subject to changes without prior notice.

8. Specifications

TP211 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.

TP211 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%
		950mW x 2 @300Ω THD+N<1%
	240mW 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.

FCC Warning Statement: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- **Reorient or relocate the receiving antenna.**

- **Increase the separation between the equipment and receiver.**

- **Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**

- **Consult the dealer or an experienced radio/TV technician for help.**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co‑located for operating in conjunction with any other antenna or transmitter.