

TOPPING

TP737

使用手册

User Manual

說明書

Model: TP737
V1.0

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1.Contents list

TP737	x 1
Remote control	x 1
USB cable	x 1
AC cable	x 1
Bluetooth antenna	x 1
Product Information Card	x 1
6.35mm to 3.5mm Adaptor	x 1

Note: You can download the driver on <https://www.toppingaudio.com/downloads>

2.Attribute

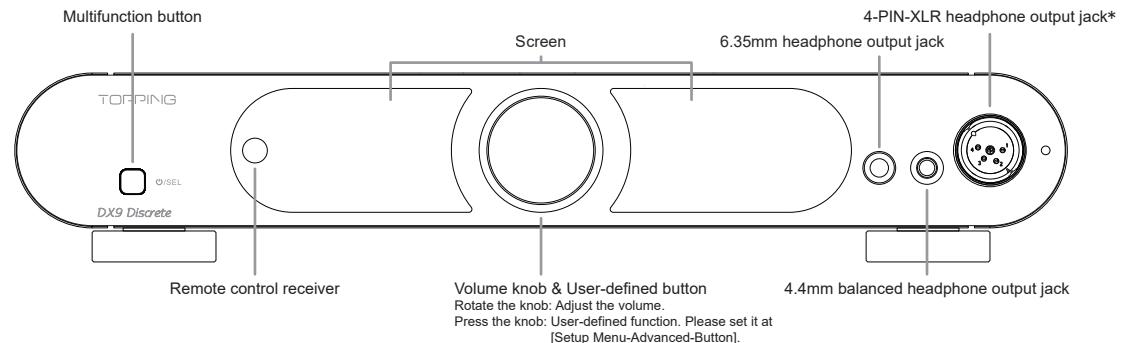
Measured	34.0cm x 22.5cm x 0.0cm (Include protruding parts)
Weight	2750g
Power input	100-240VAC 50Hz/60Hz
Signal input	USB/BT/OPT1/OPT2/COAX1/COAX2/AES/IIS
Line Out output	XLR/RCA
PRE output	XLR/RCA
Headphone Amplifier output	1 x 6.35mm headphone output jack
	1 x 4-PIN-XLR headphone output jack
	1 x 4.4mm headphone output jack
Other connectors	12V Trigger In (3.5mm jack)
	12V Trigger (3.5mm jack)
Display	Two 2.0-inch LCDs
Standby power consumption	<2.5W
Power consumption	<18W

3.Input range

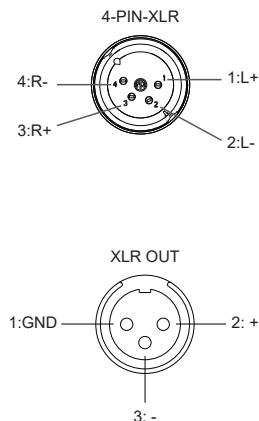
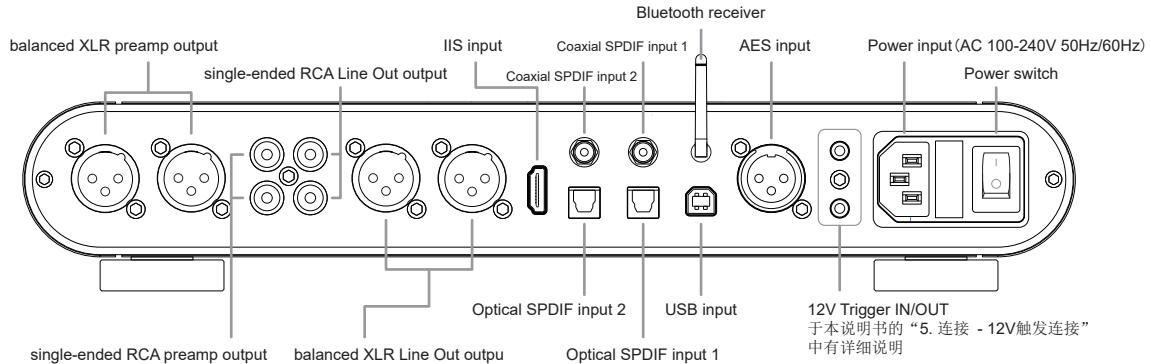
USB IN	PCM	44.1kHz-768kHz/16bit-32bit
	DSD	DSD64-DSD512 (Native) , DSD64-DSD256 (DoP)
	PEQ	44.1kHz-192kHz/16bit-24bit
IIS IN	PCM	44.1kHz-768kHz/16bit-32bit
	DSD	DSD64-DSD512 (Native) , DSD64-DSD256 (DoP)
	PEQ	44.1kHz-192kHz/16bit-24bit
COAX/OPT IN	PCM	44.1kHz-192kHz/16bit-24bit
	DSD	DSD64 (DoP)
	PEQ	44.1kHz-192kHz/16bit-24bit
BT IN	AAC/SBC/APTX/APTX HD/APTX-Adaptive/LDAC	
	PEQ	44.1kHz-96kHz/16bit-24bit

4. Parts and names

Front panel



Rear panel

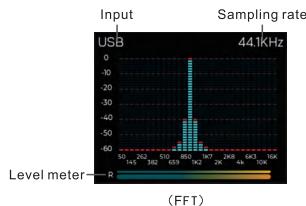
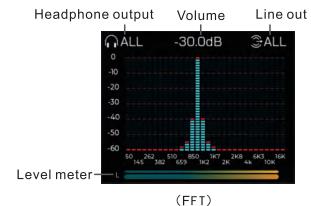
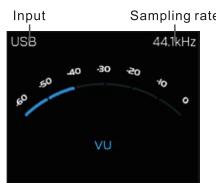
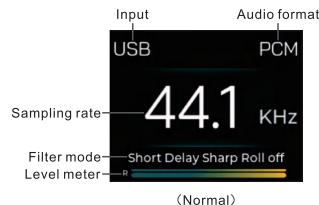
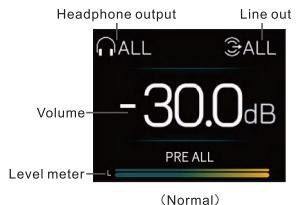


Display

There are three types of homepage display: Normal, VU and FFT, which are set in the menu [SETUP – Display – Home].

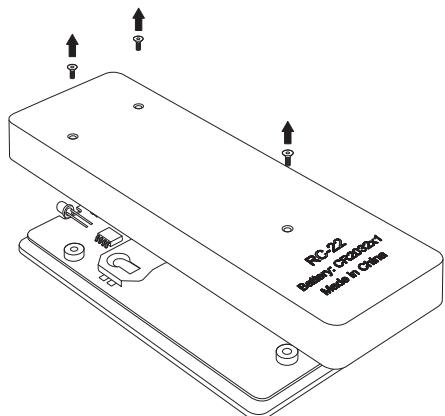
There are two types of VU Meter styles: classic and blue, which can be switched in the menu [SETUP – Display – VU style].

PRE output

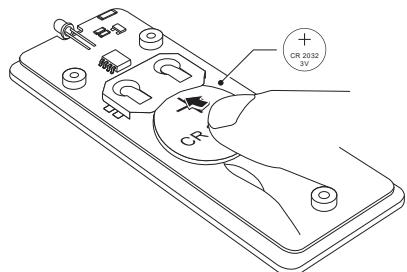


Remote battery installation

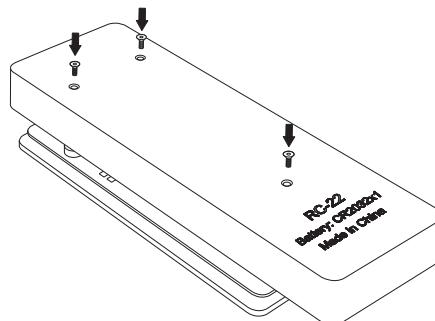
1. Use the included H1.27 screwdriver to remove the three screws on the back.



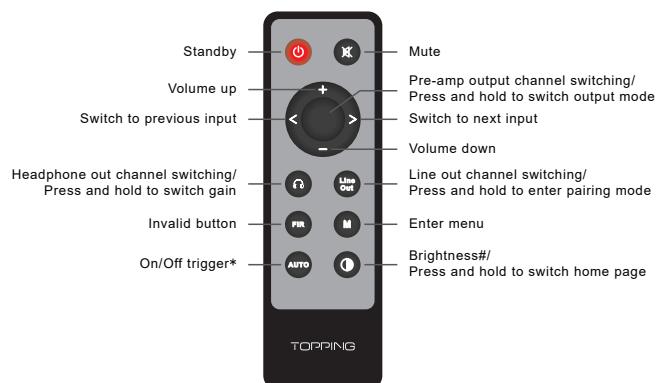
2. Insert the CR2032 button cell (not included) in the direction of the arrow .



3. Install according to the original path.



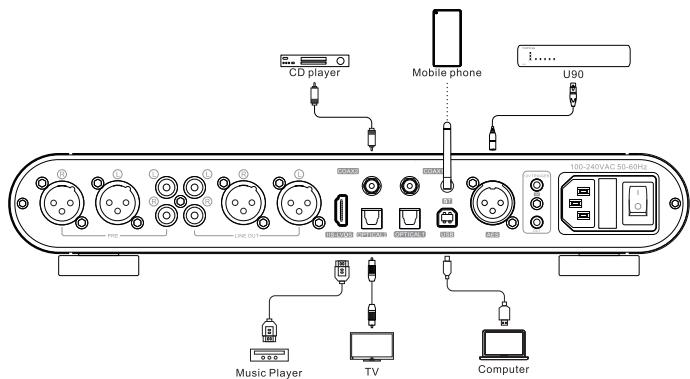
Remote control



5.Connection

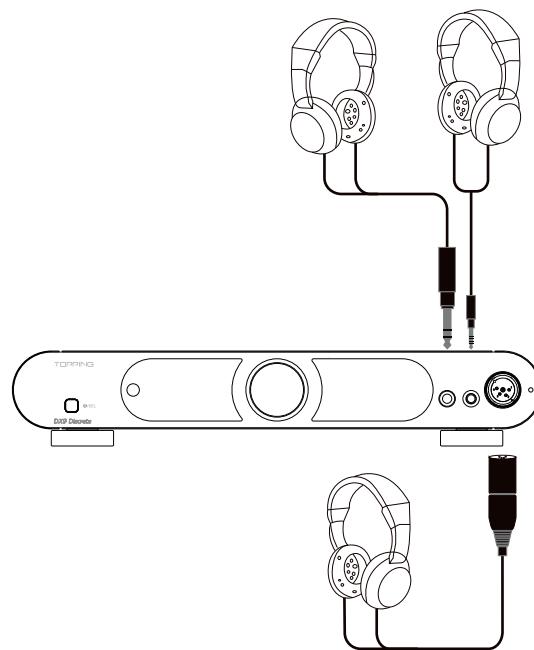
Connect to the input source

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



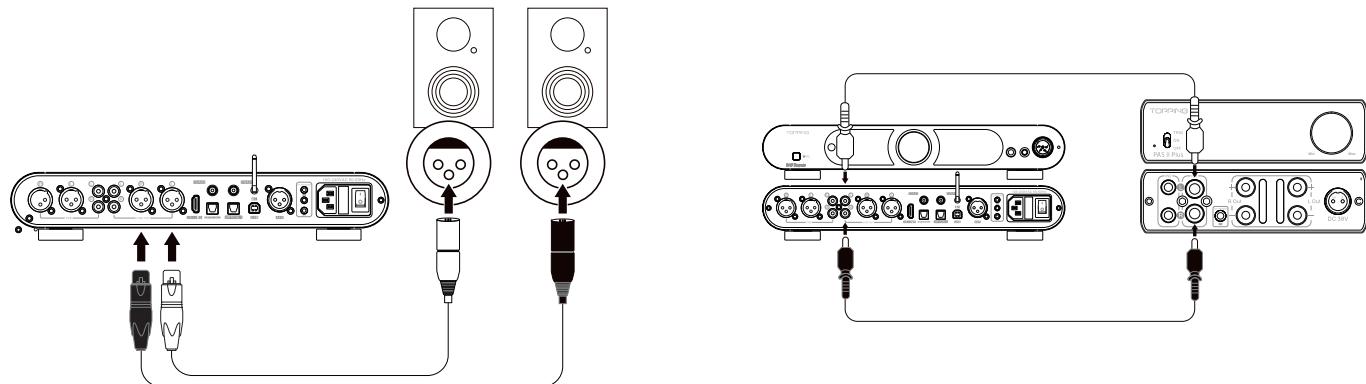
Connect to headphone

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 TP737.



6.Operation

Power on & off / standby operation

(1) Power on & off: Press the power switch on the rear panel to turn TP737 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 TP737, 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" (which is the default setting).

7. Setup Menu

Enter menu and change settings

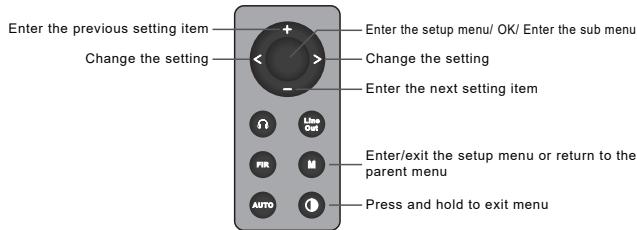
1. The button on the front panel

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

2. The remote control



Menu Overview

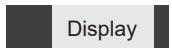
Setup		
1	Displa	>
2	Input select	USB
3	Out mode	ALL
4	HPA output	ALL
5	Line out	ALL
6	PRE output	ALL
7	Gai	Low
8	On/Off trigger	Signal
9	PEQ config	>
10	IIS config	>
11	Advanced	>
12	Language	English
13	Factory reset	
		Return

1-1	Displa	
1-2	Theme	Aurora
1-3	Home	Normal
1-4	Brightness	Medium
1-5	VU style	Classic
1-6	Classic VU 0dB	+4dBu
1-7	Level meter	All on
1-8	Screen	Normal
	LED	Medium
		Return

9-1	PEQ config	
9-2	PEQ	Enabled
	PEQ select	None
		Return

10-1	IIS config	
10-2	IIS phase	Standard
	IIS DSD channel	Standard
		Return

11-1	Advanced	
11-2	Channel balance	C
11-3	DAC mode	PRE
11-4	DSD Bypass	OFF
11-5	Bluetooth	Enabled
11-6	Remote	Enabled
11-7	Button	Input select
	USB	UAC2.0
		Return



Display

1-1 Theme

Multiple options available, default Aurora.

1-2 Home

Choose home page

Normal (Default), VU, FFT

1-3 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.

1-4 VU style

Select VU meter style

Classic (Default), Blue

1-5 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 TP737 is +4dBu.

+4dBu (Default), +10dBu

1-6 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

1-7 Screen

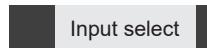
Switch left and right interface displays

Normal (Default), Inverted

1-7 LED

Selecting TP737 internal light brightness

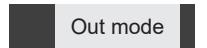
Low, Medium (Default), High, OFF



Input select

USB (Default), BT, OPT1, COAX1, OPT2, COAX2, IIS, AES

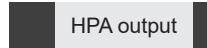
See "Output settings" in the "Operation", above.



Out mode

ALL (Default), HPA, Line Out, PRE

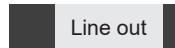
See "Output settings" in the "Operation", above.



HPA output

ALL (Default), OFF, 6.35, 4.4, XLR

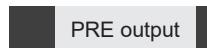
See "Output settings" in the "Operation", above.



Line out

ALL (Default), OFF, RCA, XLR

See "Output settings" in the "Operation", above.



PRE output

ALL (Default), OFF, RCA, XLR

See "Output settings" in the "Operation", above.



Gain

Gain settings for headphone amplifier and preamplifier

Low (Default), High

On/Off trigger

Signal: 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. (Default)

12V: 12V signal will trigger the device to turn on. When TP737's Trigger In is connected to another device's 12V Trigger Out, TP737's on/standby state can be controlled through this device. The TP737 will remain in standby state until Trigger In detects the signal change from 0V to 12V. When changing back to 0V, the TP737 will return to standby state.

Off: Disabled this function.

PEQ config

9-1 PEQ

Enabled (Default), Disabled

PEQ Support Range

USB IN	44.1kHz-192kHz/16bit-24bit
IIS IN	44.1kHz-192kHz/16bit-24bit
COAX/OPT IN	44.1kHz-192kHz/16bit-24bit
BT IN	44.1kHz-96kHz/16bit-24bit

9-2 PEQ select

Unused: No configuration is selected.

DevConfig 1, 2, 3, 4, and 5 correspond to the adjusted frequency response curves for TOPPING Tune's device configuration.

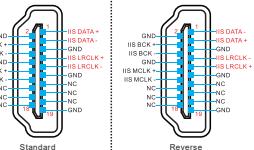
Additionally, five default preset configurations are provided for users to choose from. Please note that these default preset configurations are not modifiable.

Note: On the TOPPING Tune, you can save local configuration of frequency response curves to the TP737, and the TP737 can use this configuration offline. Exit TOPPING Tune to switch configurations on the device.

IIS config

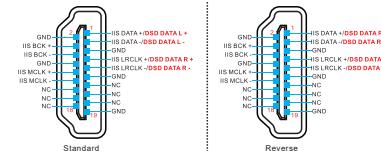
10-1 IIS phase

Standard (Default), Reverse



10-2 IIS DSD channel

Standard (Default), Swap



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 DSD Bypass

ON: DSD bypass enabled

OFF: DSD bypass disabled (Default)

Note: DSD bypass only works in DAC mode.

Support range: DSD Native 64~256.

11-4 Bluetooth

Enabled (Default) , Disabled

11-5 Remote

Enabled (Default) , Disabled

11-6 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

11-7 USB

USB protocol version selection

UAC 1.0, UAC 2.0 (Default)

Language

English、中文

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.



8.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
	TP737 is not selected as the output device on the PC	Set the TP737 as the default output device
Cannot pair TP737 Bluetooth	Bluetooth is disabled on TP737	Enable Bluetooth in the setup menu[Setup menu-Advanced-Bluetooth]
	TP737 is already connected to other Bluetooth device	Let TP737 enter pairing mode first.
	Weak signal due to long distance	Take the device closer to TP737 and connect again
Bluetooth input, no sound	Too low volume on phone	Adjust volume
DAC abnormal	DAC abnormal	Do not connect the TP737 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 / R 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)		

9.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 TP737.
5. For improvement purpose, specifications subject to changes without prior notice.

10.Specifications

DAC parameters

TP737 DAC parameters (LineOut/USB In@96kHz)		
	RCA	XLR
THD+N @1kHz (A-wt)	<0.00007%	<0.00006%
THD @20-20kHz 45kBw	<0.0004%	<0.0003%
SNR @MAX OUT 1kHz (A-wt)	128dB	131dB
Dynamic Range @1kHz (A-wt)	128dB	131dB
Frequency Response	20Hz-20kHz (±0.6dB)	20Hz-20kHz (±0.6dB)
	20Hz-40kHz (±2.0dB)	20Hz-40kHz (±2.0dB)
Output Level	2.5Vrms @0dBFS	5.2Vrms @0dBFS
Noise @A-wt	<1.1uVrms	<1.6uVrms
Channel Crosstalk	-125dB @1kHz	-136dB @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.

Amplifier specifications

TP737 Headphone Amplifier specifications (USB In@96kHz)		
	6.35mm headphone jack	4.4mm/4-pin-XLR headphone jack
THD+N @1kHz (A-wt)	<0.00007% @Output=550mW (32Ω)	<0.00007% @Output=550mW (32Ω)
	<0.00007% @Output=60mW (300Ω)	<0.00007% @Output=60mW (300Ω)
THD @20-20kHz (45kBW)	<0.00050% @Output=550mW (32Ω)	<0.00050% @Output=550mW (32Ω)
	<0.00050% @Output=60mW (300Ω)	<0.00030% @Output=60mW (300Ω)
SNR @MAX OUT 1kHz (A-wt)	130dB @1kHz	131dB @1kHz
Dynamic Range @1kHz (A-wt)	130dB @1kHz	131dB @1kHz
Frequency Response	20Hz-20kHz (±0.6dB)	20Hz-20kHz (±0.6dB)
	20Hz-40kHz (±2.0dB)	20Hz-40kHz (±2.0dB)
Output Level	15Vpp @G=L	15Vpp @G=L
	24Vpp @G=H	48Vpp @G=H
Noise (A-wt)	<1.3uVrms @G=L	<0.8uVrms @G=L
	<1.6uVrms @G=H	<2.4uVrms @G=H
Channel Crosstalk	-130dB @1kHz	-133dB @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%
	2120mW 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%
	270mW x 2 @300Ω THD+N<1%	1060mW x 2 @300Ω THD+N<1%
		540mW 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.

Pre-amplifier specifications

TP737 Pre-amplifier specifications (USB In@96kHz)		
	RCA	XLR
THD+N @1kHz (A-wt)	<0.00007%	<0.00007%
THD @20-20kHz 45kBw	<0.0004%	<0.0003%
SNR @MAX OUT 1kHz (A-wt)	130dB @1kHz	131dB @1kHz
Dynamic Range @1kHz (A-wt)	130dB @1kHz	131dB @1kHz
Frequency Response	20Hz-20kHz (±0.6dB)	20Hz-20kHz (±0.6dB)
	20Hz-40kHz (±2.0dB)	20Hz-40kHz (±2.0dB)
Output Level	15Vpp @G=L	15Vpp @G=L
	24Vpp @G=H	48Vpp @G=H
Noise @A-wt	<1.7uVrms @G=L	<0.8uVrms @G=L
	<2.0uVrms @G=H	<2.1uVrms @G=H
Channel Crosstalk	-113dB @1kHz	-135dB @1kHz
Gain	G=L 14.4dB (Vrms/FS)	G=L 14.4dB (Vrms/FS)
	G=H 20.1dB (Vrms/FS)	G=H 26.5dB (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.

FCC WARNING

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.