TOPPING

A70 Pro

User Manual

Model: TP50E

Catalog

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Contents list

1. Contents list

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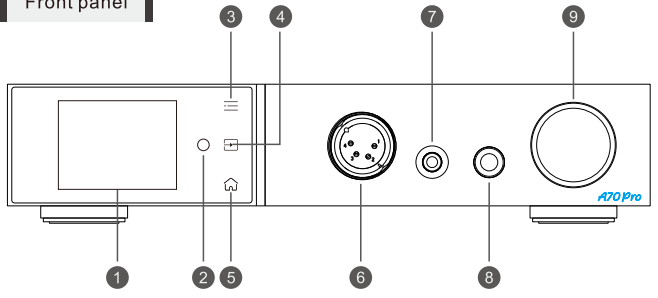
Note: You can download the user manual on http://www.topping.audio/.

2. Attribute

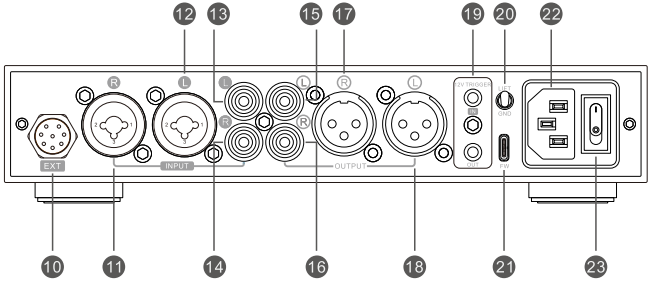
Measured	22.2cm x 17.6cm x 4.8cm（Include protruding parts）
Weight	1.27 Kg
Power input	100-240VAC 50Hz/60Hz
Gain	L/H
Signal input	1 x BAL（Combo:XLR/6.35mm TRS）
	1 x SE（RCA）
	1 x EXT（For connection to extender EXT90）
Headphone Amplifier output	1 x 6.35mm headphone output jack
	1 x 4-PIN-XLR headphone output jack
	1 x 4.4mm headphone output jack
Line Out output	1 x BAL（XLR）
	1 x SE（RCA）
Other connectors	12V Trigger In（3.5mm jack）
	12V Trigger out（3.5mm jack）
Display	2inch LCD

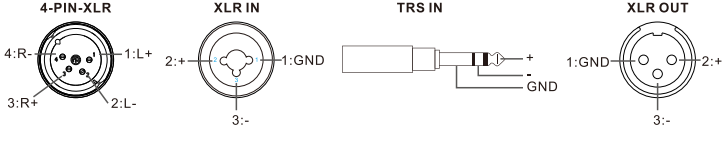
Attribute

Front panel



Rear panel

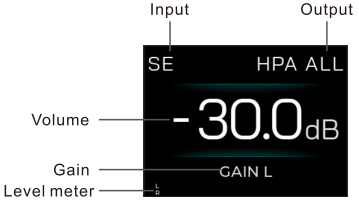




1 Screen
2 Remote control receiver
3 Menu
Touch to enter/exit the setup menu or return to the parent menu.
4 Input channel switching
5 Home page switching /Exit the setup menu
6 4-PIN-XLR headphone output jack
7 4.4mm balanced headphone output jack
8 6.35mm headphone output jack
9 Volume knob & User-defined button
Rotate the knob: Adjust the volume.
Press the knob: User-defined function. Please set it at [Setup Menu-Advanced-Button].
10 Extender input connector
11 Right channel balanced XLR+6.35mm TRS combo input
12 Left channel balanced XLR+6.35mm TRS combo input
13 Left channel single-ended RCA input
14 Right channel single-ended RCA input
15 Left channel single-ended RCA preamp output
16 Right channel single-ended RCA preamp output
17 Right channel balanced XLR preamp output
18 Left channel balanced XLR preamp output
19 12V Trigger In/Out
The 12V Trigger In/Out allows the A70 Pro 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.
20 Ground lift switch
The LIFT setting is able to break the ground loop which may happen in a multi-device system with multiple ground points. Thus eliminate the noise caused by ground loop. Keep the setting to "GND" for best performance if ground loop is not present.
21 Firmware upgrade port
This port is for firmware upgrade only
22 Power input
AC 100-240V 50Hz/60Hz
23 Power switch

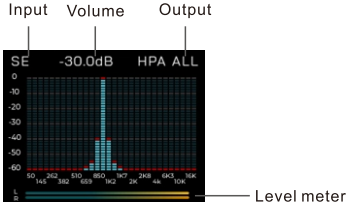
Display

There are three types of home page displays: Normal, VU and FFT, which can be switched by touching the button on the front panel or set in the menu [Setup Menu - Display - Home].



Normal

VU



FFT

*VU Meter, FFT and Level meter monitor or reflect audio input level of current source.

Remote control

C1 C2

***Operation**:Press and hold the C1/C2 button for 3 seconds to save the current settings, and "C1" or "C2" will be displayed after successfully saving. Short press the C1/C2 button to use the corresponding settings.

What was saved: volume and all settings in the setup menu, such as input channel, output channel, gain, etc.

When to use: This feature is suitable for users who have more than one usage scenario, such as the two shown below. Using C1&C2 buttons to save and load settings may free you from changing settings one by one when you want to change usage scenario.

A70 Pro settings	Usage scenario 1: Connect with headphone	Usage scenario 2: Connect with speakers
Input channel	RCA	XLR
Output channel	6.35mm headphone jack	XLR
Volume	-40dB	-20dB
Gain	High gain	Low gain

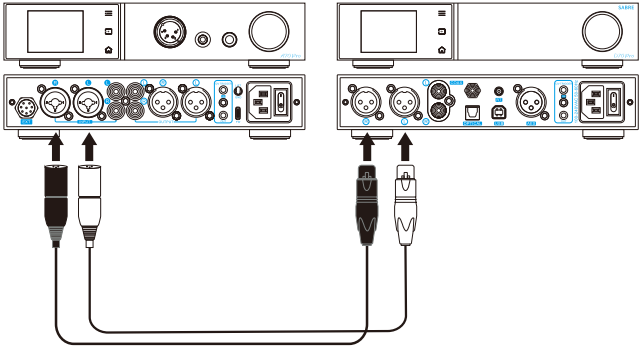
See "1-2 Brightness" in the "Setup Menu", below.

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

3. Connection

Connect to the input source

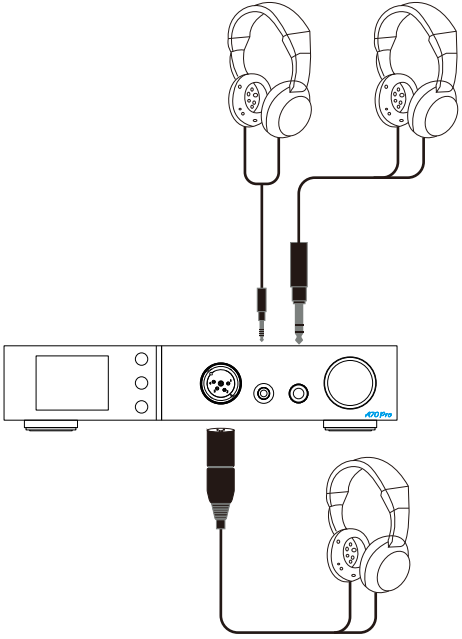
Use XLR or RCA cables to connect to the DAC. If you have more than 2 sources, you could purchase our extender Ext90 for 4 additional inputs. Please refer to "Extender Instructions" for details. However, please note that A70 Pro can only use one of the inputs at a time.



Connection

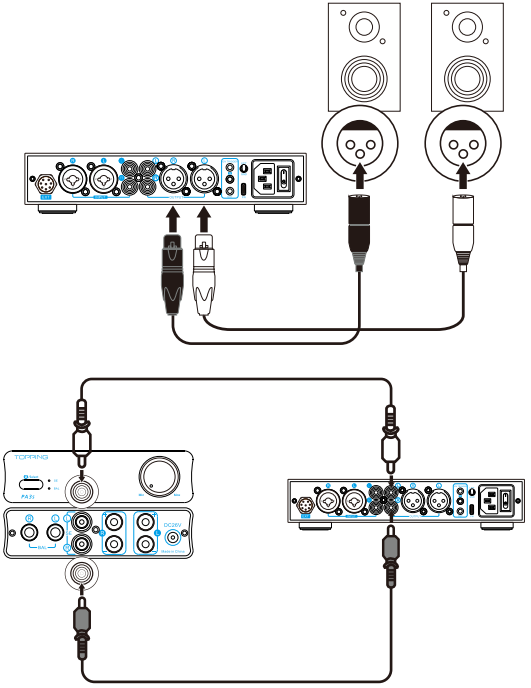
Connect to headphone

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 A70 Pro.



4. Operation

Power on & off / standby operation

(1) Power on & off: Press the power switch on the rear panel to turn A70 Pro on or off.
(2) Standby setting:
When it is working, press and hold the knob 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 settings

1. **Set the output mode first**
(Press and hold the remote middle button) [Setup menu-Output mode]
HPA: Only front panel headphone jacks have output.
PRE: Only the Line out connectors on the rear panel have output.
HPA+PRE: Both headphone jacks and line out connectors can have output.
2. **Then select output channel based on the output mode**
(Remote A/B button) [Setup menu-HPA output] / [Setup menu-PRE output]
HPA output channel: 4-PIN-XLR, 4.4mm and 6.35mm. You could choose to open one or all of them.
PRE output channel: RCA and XLR. You could open one or both of them.
Note that in HPA+PRE output mode, remote A and B button are invalid. All output channels are open. Cannot select individual channel output.

Output mode (Press and hold the remote middle button)	All channels output (Press remote A button)	Individual channel outputs (Press remote B button)
HPA	3.5mm+4.4mm+4-PIN-XLR	3.5mm/4.4mm/4-PIN-XLR
PRE	RCA+XLR	RCA/XLR
HPA+PRE	Invalid button	Invalid button

After setting to IND (individual) output, besides using the remote B button, you could also switch the output channel by pressing the knob, but note that you need to set [Setup Menu-Advanced-Button] to "Output select" (Default).

Input channel switching

Touch the button on the front panel or press the < or > button on the remote control to switch the input in cycle.

Volume setting

(1) The enter and exit of mute state: Press the mute button on the remote control to mute A70 Pro, press the mute button again or adjust the volume to exit mute state.
(2) Volume adjusting: You can directly turn the volume knob or press the + and − button on the remote control to adjust the volume. Note that long pressing the + and − button on the remote control will quickly change the volume, so please be careful in order to protect your hearing.
(3) Volume memory: A70 Pro will memorize last volume of each output setting. Next time the setting is used, the volume will automatically revert to the volume of its last use. (8 output settings: HPA+PRE, HPA-ALL, PRE-ALL, 3.5mm, 4.4mm, 4-PIN-XLR, RCA, XLR)

5. Setup Menu

Enter menu and change settings

The button on the front panel

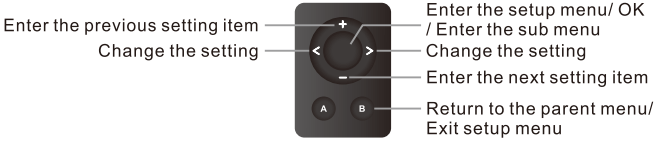
Touch : Enter/exit the setup menu or return to the parent menu

Touch : Exit the setup menu

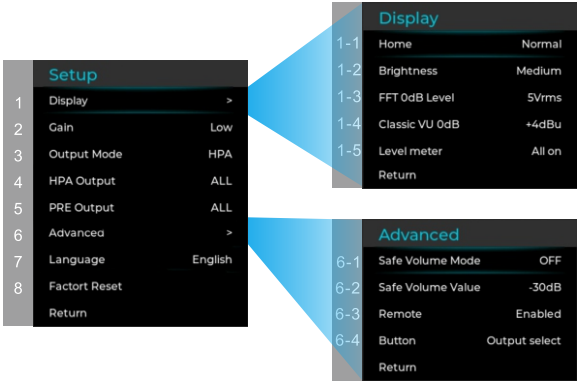
Rotate the knob: Choose setting item

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

The remote control



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 differences lie in 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 **FFT 0dB level**

Set 0dB reference voltage for FFT page.

2Vrms,5Vrms（Default）,10Vrms

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 level of the input signal now is +4dBu.when the pointer swings to 0dB, the level of the input signal now is +4dBu.

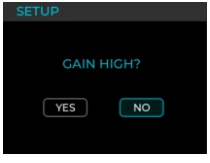
+4dBu（Default）,+10dBu,+16dBu

1-5 **Level meter**

All on（Default）,Normal page,FFT page, All off

2.Gain

Set the gain of the current output channel.
Low（Default）, High
Low gain to high gain will have a pop-up, select Yes/No（blue for selected）, then press the middle button of the remote or the front-panel knob to confirm.



3.Output mode

HPA (Default): Only front panel headphone jacks have output.
PRE: Only the Line out connectors on the rear panel have output.
HPA+PRE: Both headphone jacks and line out connectors can have output.

4.HPA output

All (Default), Individual
See "Output settings" in the "Operation", above.

5.PRE output

All (Default), Individual
See "Output settings" in the "Operation", above.

6.Advanced

6-1 **Safe volume mode**
ON, OFF（Default）
When switching input/output channels or powering on, if the current volume is higher than the safe volume, the volume will be automatically changed to the safe volume value if you don't press the middle button on the remote control/the knob on the front panel within 10s.

6-2 **Safe volume**
Customized settings from -80.0dB to -0.0dB (Default: -30dB)
*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.

6-3 **Remote**
Enabled（Default）, Disabled

6-4 **Button**
Customize the function of the press knob.
Output select（Default）, Home select, Brightness select, Dim the screen Mute, Input select

7.Language

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

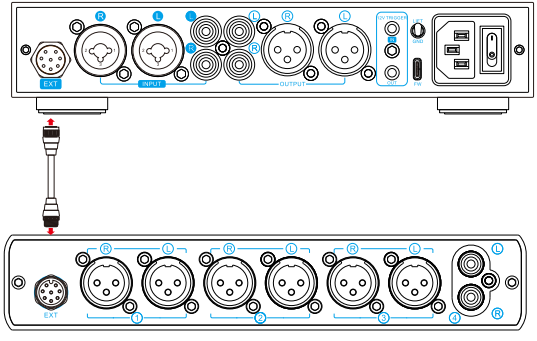
8.Factory reset

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. Extender instruction

Connection

Connect A70 Pro and Ext90 via aviation connector cable.
To A70 Pro, connecting the extender Ext90 is equivalent to adding four stereo input channels, and other functions remain unchanged.
*Ext90 is not included. You need to buy it separately.

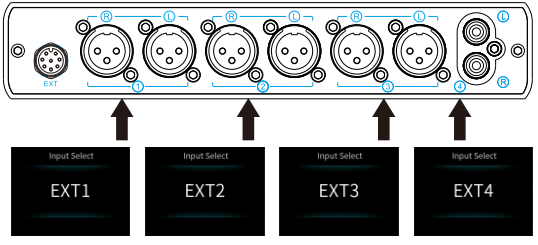


Note

Hot plugging Ext90 will not damage the unit, but it is not recommended.

Input select

After the extender is successfully connected, you can select the input of the extender. EXT1 to EXT4 correspond to the input "①" to "④" on the rear panel of Ext90.

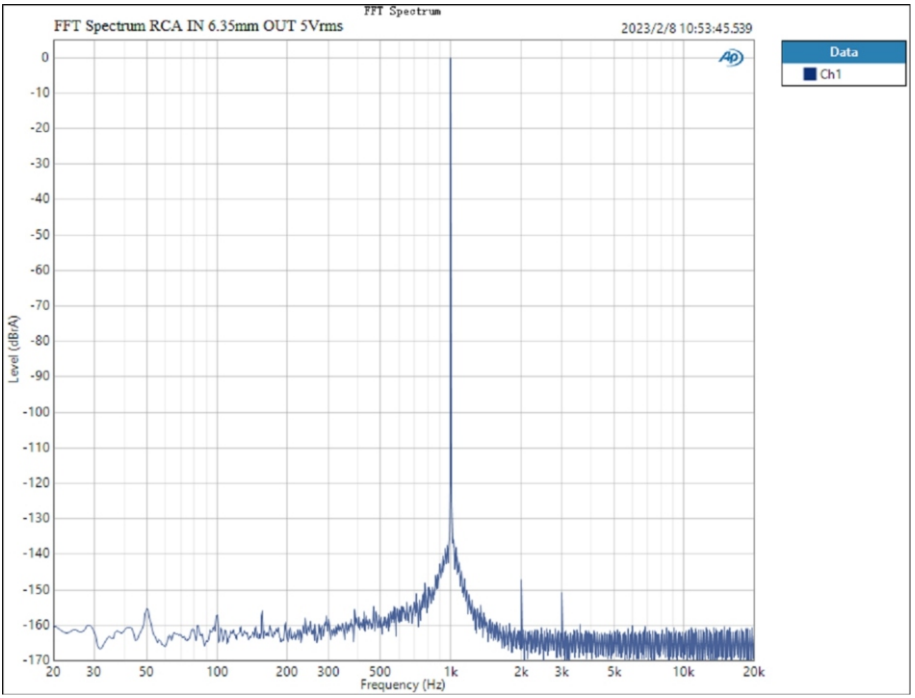


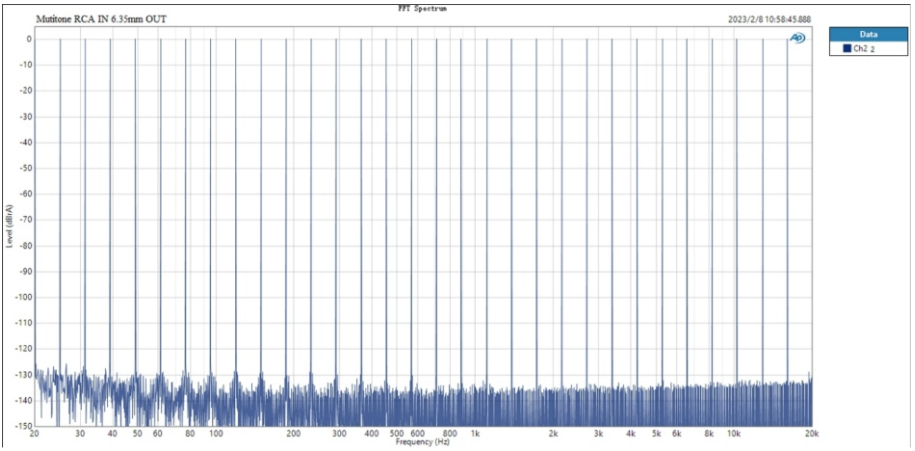
7. Trouble shooting

Phenomenon	Cause	Solution
No sound	A70 Pro did not power on	Check the power supply
	Wrong input was selected	Select the correct input
	Wrong output was selected	Please refer to "Output settings" in this manual for the correct usage
	Incorrect cable connections	Check and reconnect
	No signal from source	Check upstream devices
Firmware Error or Topping other firmware or Unknown file	Incorrect firmware version	Unplug and re-plug the power cable, and then flash the correct firmware
No firmware	No firmware	Unplug and re-plug the power cable, and then flash the firmware again. Be careful not to disconnect from the computer while flashing the firmware.
Update failed	Firmware upgrade failed	Unplug and re-plug the power cable, and then flash the firmware again
PN Voltage ERR or P Voltage ERR	Negative and positive voltage abnormal	Do not connect the A70 Pro to any other devices, unplug and re-plug the power cable and reboot the unit.
HP DC abnormal	Amplifier circuit outputs abnormal DC voltage	After changing the song or turning down the volume, Unplug and re-plug the power cable and reboot the A70 Pro.
If you still have problems or questions, please contact us（service@tpdz.net）		

8. Precautions

1. The output jacks shall not be grounded or short-circuited.
2. Do not keep the unit in a hot, humid environment or hit the unit strongly.
3. Opening the case instantly voids the warranty!
4. Indoor use only.
5. Topping accepts no liability for any loss or damage arising directly or indirectly from the failure of A70 Pro.
6. For improvement purpose, specifications subject to changes without prior notice.


FFT Spectrum
FFT Spectrum RCA IN 6.35mm OUT 5Vrms
2023/2/8 10:53:45.539
Data
Ch1
Level (dBrA)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
-140
-150
-160
-170
20
30
50
100
200
300
500
1k
2k
3k
5k
10k
20k
Frequency (Hz)


FFT Spectrum
Multitone RCA IN 6.35mm OUT
2023/2/8 10:58:45.888
Data
Ch2 2
Level (dBrA)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
-140
-150
20
30
40
50
60
80
100
200
300
400
500
600
800
1k
2k
3k
4k
5k
6k
8k
10k
20k
Frequency (Hz)