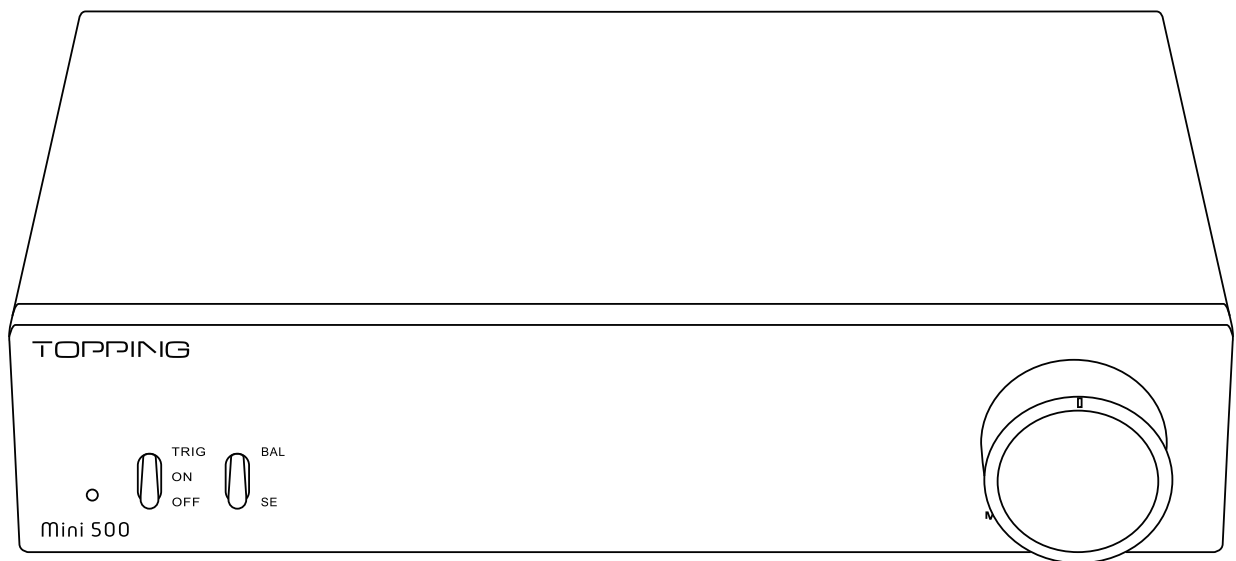


TOPPING

Mini 500



Model : TP35F

V1.0

User manual

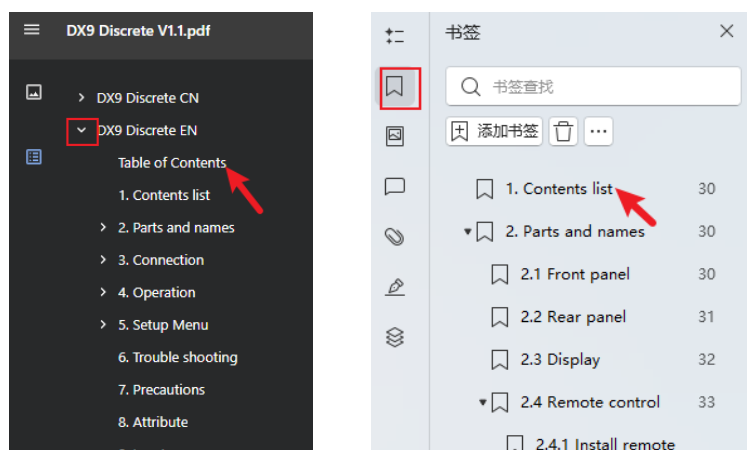
Manual Reading Guide

Jump to target section (image for reference only)

- Click any item in the table of contents to navigate to the corresponding part.

Table of Contents	
1. Contents list	3
2. Parts and names	3
2.1 Front panel	3
2.2 Rear panel	4
2.3 Display	5
2.4 Remote control	6
3. Connection	8
3.1 Connect to the input source	8

- The table of contents on the left side of your browser or document editor shows the full structure of this manual; click any item to go directly to that chapter.



Keyword search

- Windows: Press Ctrl + F to search for keywords.
- Mac: Press Command + F to search for keywords.

Contents

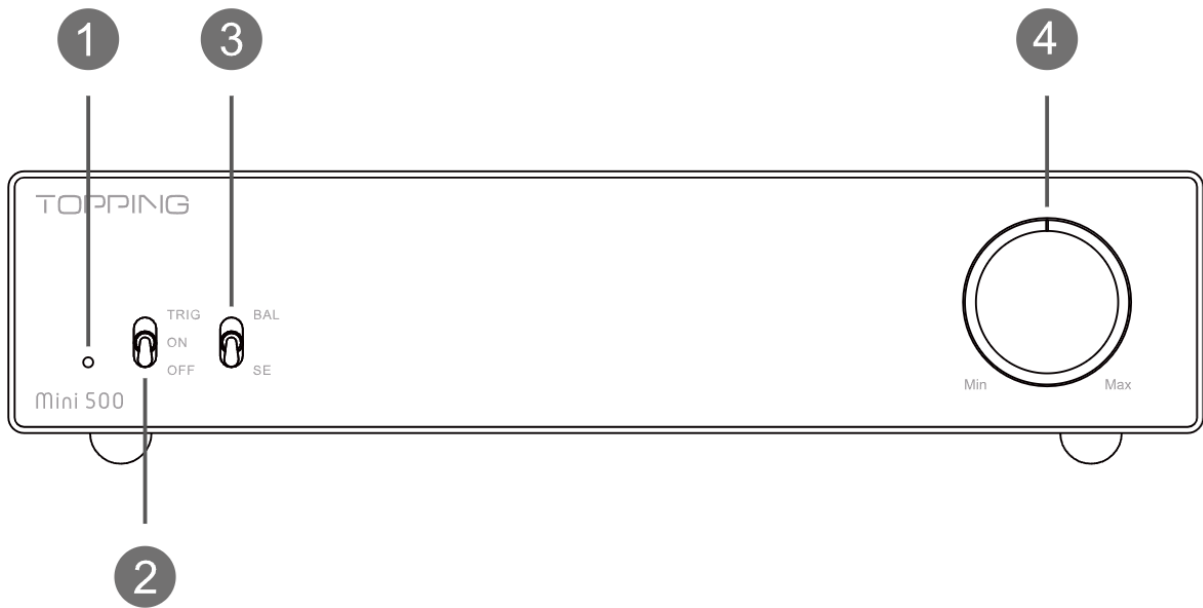
1. Contents list	3
2. Hardware Overview	3
2.1 Front panel	3
2.2 Rear panel	4
3. Connection	5
3.1 When the Mini 500 is set to stereo mode	6
3.2 When the Mini 500 is set to Mono mode	6
3.3 12V trigger connection	7
4. Troubleshooting	7
5. Precautions	8
6. Attribute	8
7. Appendix	9

1. Contents list

Mini 500	x 1
Power adaptor	x 1
Power cable	x 1
Product information card	x 1

2. Hardware Overview

2.1 Front panel



1. Power indicator

2. Power switch

ON: Turn on

OFF: Turn off

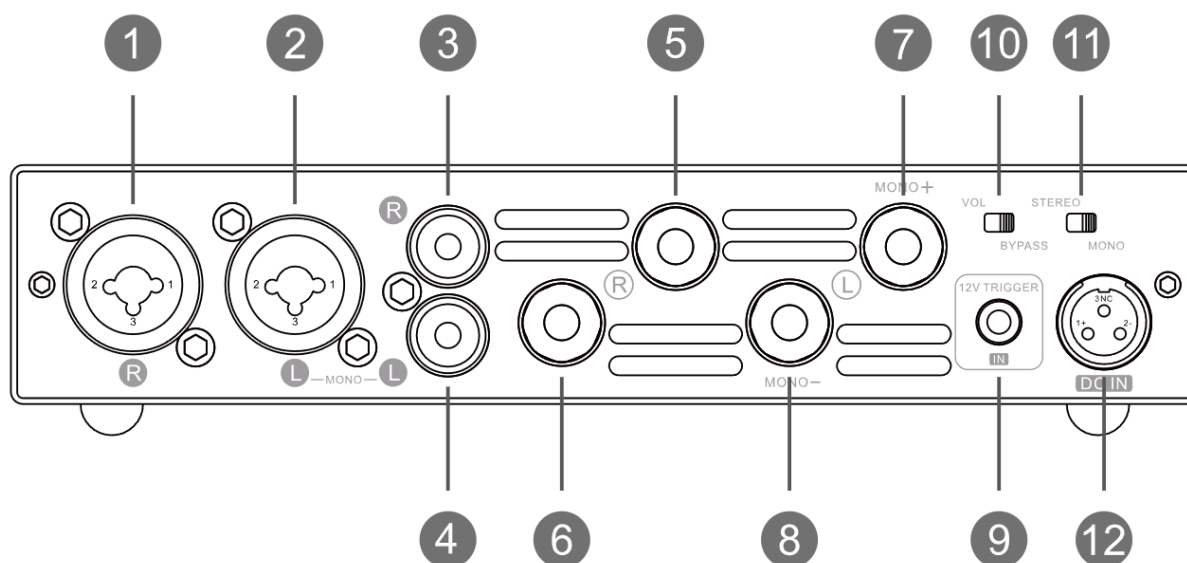
TRIG: Power on/off is controlled by an upstream device connected to the 12V Trigger input on the rear panel.

3. Input switch

Set to BAL to select the XLR/TRS balanced input, or set to SE to select the RCA single-ended input.

4. Volume knob

2.2 Rear panel



1. Stereo right-channel balanced combo input (XLR/TRS)

This interface supports XLR plugs and 6.35mm TRS balanced plugs.

2. Stereo left-channel balanced combo input (XLR/TRS) / Mono balanced input

This interface supports XLR plugs and 6.35mm TRS balanced plugs.

3. Stereo right-channel single-ended input (RCA)

4. Stereo left-channel single-ended input / Mono single-ended input (RCA)

5. Stereo right-channel positive speaker terminal

6. Stereo right-channel negative speaker terminal

7. Stereo left-channel positive speaker terminal / Mono positive speaker terminal

8. Stereo left-channel negative speaker terminal / Mono negative speaker terminal

9. 12V trigger input (3.5mm)

When a device equipped with a 12V Trigger Out jack is connected to the Mini 500, it can control the Mini 500's power on/off.

***Note:** To use this function, please switch the power switch on the front panel to "TRIG".

10. Volume setting

VOL: Volume control enabled.

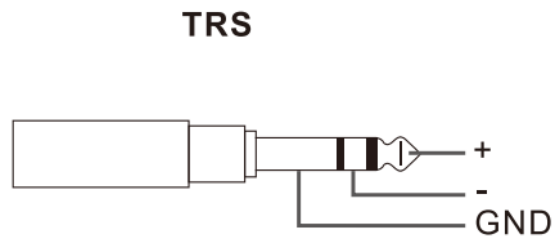
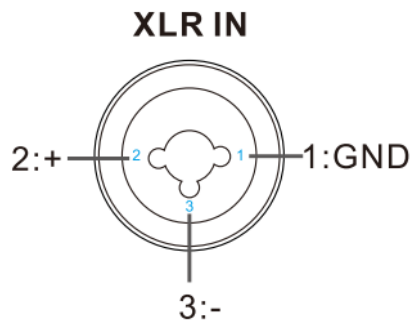
BYPASS: Volume control bypassed (output fixed at maximum; volume cannot be adjusted).

11. Amplifier mode

STEREO: A single unit provides two-channel output, suitable for conventional stereo systems.

MONO: One unit provides mono output and supports loads down to 2 Ω . Two Mini 500 units can be combined to form a stereo system.

12. Power input (DC 53V/4A)

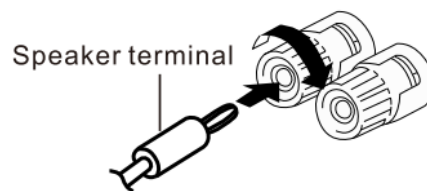


3. Connection

Output wiring methods:

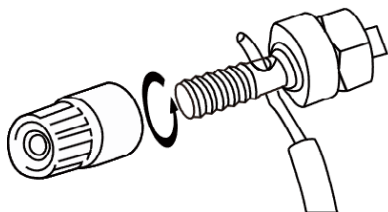
(1) Direct insertion

- ① Tighten the crystal case clockwise.
- ② Insert the banana plug into the end of the corresponding terminal (The speaker terminal hole is 4 mm in diameter).

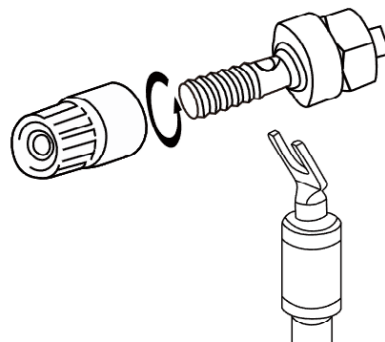


(2) Bare insertion / Y-insertion

- ① Unscrew the crystal case counterclockwise.
 - ② Insert stripped metal speaker wires into the round holes in the copper posts or insert Y-terminals around the periphery of the posts.
- *Do not let bare speaker wires touch each other or the case of this unit. This could damage this unit and the speakers.
- ③ Finally, tighten the crystal case.



Bare insertion



Y-insertion

3.1 When the Mini 500 is set to stereo mode

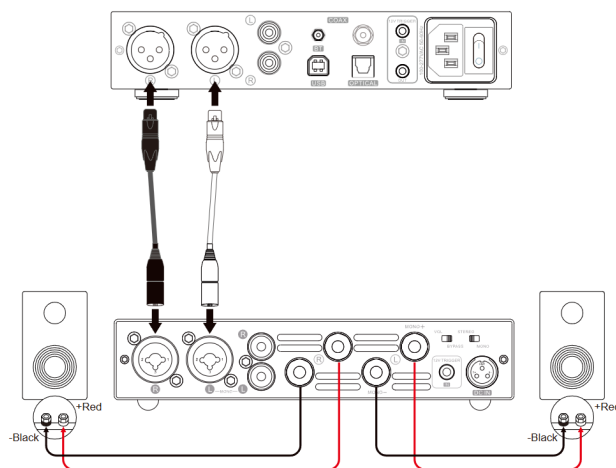
Please ensure the amplifier and speakers are connected correctly as shown in the diagram:

- The positive terminal (red) connects to the speaker's positive terminal (red).
- The negative terminal (black) connects to the speaker's negative terminal (black).
- Make sure the left and right channels correspond correctly to avoid reverse connections.

Important Notes:

The Mini 500 amplifier uses a BTL output architecture:

- The black terminals (negative) are not a common ground as they are on a traditional amplifier. Do not connect the negative terminals together, connect them to ground, or wire the channels in series.
For example, do not connect the positive terminal of the left channel to the negative terminal of the right channel on the same speaker. Improper connections may cause severe damage to the amplifier.
- If the amplifier fails due to incorrect wiring, it will be considered user error, and we will not provide warranty for such damages.



3.2 When the Mini 500 is set to Mono mode

Please ensure the amplifier and speakers are connected correctly as shown in the diagram:

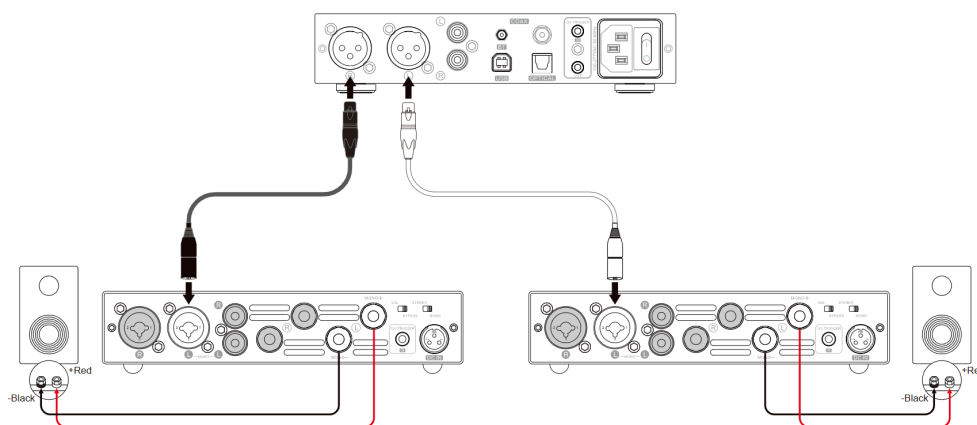
- The positive terminal (red) connects to the speaker's positive terminal (red).
- The negative terminal (black) connects to the speaker's negative terminal (black).
- Please ensure that the positive terminal is connected to the positive terminal and the negative terminal to the negative terminal. In Mono mode, use the binding posts marked "MONO" to connect the speaker.

Important Notes:

The Mini 500 amplifier uses a BTL output architecture:

- The black terminals (negative) are not a common ground as they are on a traditional amplifier. Do not connect the negative terminals together, connect them to ground, or wire the channels in series.

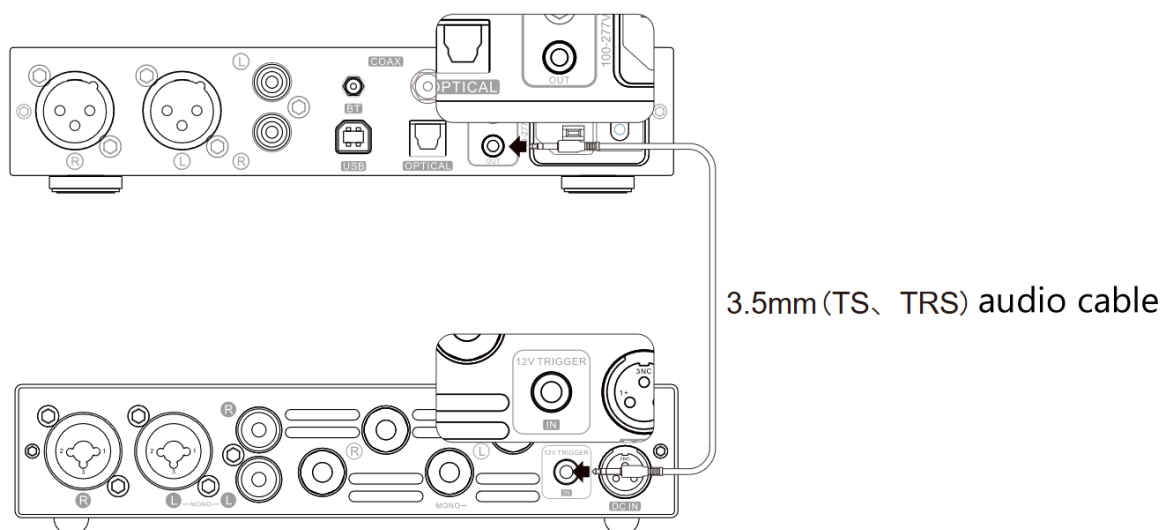
- If the amplifier fails due to incorrect wiring, it will be considered user error, and we will not provide warranty for such damages.



3.3 12V trigger connection

When a unit equipped with a 12V Trigger Out interface is connected to the Mini 500, it can control the Mini 500's power on/off.

*Note that when using the Mini 500's Trigger IN function, the power switch must be switched to TRIG on the [Front Panel - Power Switch].



4. Troubleshooting

If you encounter any problems during use, please refer to the following link for troubleshooting information.

<https://www.toppingaudio.com/supports?tab=faq&search=Mini+500>

If you still have problems or questions, please contact us: service@toppingaudio.com

5. Precautions

- Connect the speaker output cables strictly as described in this manual.
- Do not short-circuit or ground any of the speaker output terminals, including L+, L–, R+, and R–.
- Whether you need to connect or disconnect a cable, please turn off Mini 500 first.
- To cut the power of the AC adapter, please turn off Mini 500 first, then pull out the power cable or cut the power of adapter.
- You must not keep the amplifier in a hot, humid environment or drop it.
- Opening the case instantly voids the warranty!
- If debris or liquid enters the unit, disconnect the power immediately and have the unit inspected by a qualified professional before use.
- Use TOPPING DC adapter only.
- Keep the volume at a comfortable level to protect your hearing and avoid distortion.
- Indoor use only.
- Topping accepts no liability for any loss or damage arising directly or indirectly from the failure of Mini 500.
- For improvement purposes, specifications subject to changes without prior notice.

6. Attribute

Dimensions	19.0cm x 16.4cm x 4.4cm (Include highlighted sections)
Weight	1090g
Power input	DC53V/4.0A (3 pin aviation connector)
Signal inputs	SE (RCA L+R)、BAL (Combo: XLR/6.35mm TRS)
Signal output	Speaker terminal (BTL output)
Power on & off	by manual/trigger signal
Volume control	Analog Potentiometer/Through
Work mode	Stereo/Mono
Display	White LED
Standby power consumption	<0.5W

7. Appendix

Mini 500 parameters (Stereo)		
Input	SE	BAL
THD+N @1kHz (A-wt)	<0.0006% @4Ω 5W <0.0005% @8Ω 5W	<0.0005% @4Ω 5W <0.0004% @8Ω 5W
THD+N @No-wt 20kBW	<0.0050% @4Ω 5W <0.0040% @8Ω 5W	<0.0050% @4Ω 5W <0.0040% @8Ω 5W
SNR @MAX OUT 1kHz (A-wt)	123dB	126dB
Dynamic Range @1kHz (A-wt)	123dB	126dB
Frequency Response	20Hz-20kHz(±0.3dB) 20Hz-40kHz(±1.0dB)	20Hz-20kHz(±0.3dB) 20Hz-40kHz(±1.0dB)
OutPut Level	85Vpp @4Ω 92Vpp @8Ω	85Vpp @4Ω 92Vpp @8Ω
Noise (A-wt)	<17uVrms	<17uVrms
Channel Crosstalk @1kHz	-98dB	-111dB
Input Sensitivity	2.0Vrms	4.0Vrms
Gain	25.7dB	19.8dB
Channel Balance	0.1 dB	0.1 dB
Input Impedance	1.0kΩ	6.8kΩ
Output Power	250W x 2 @4Ω THD+N<10% 220W x 2 @4Ω THD+N<1% 150W x 2 @8Ω THD+N<10% 120W x 2 @8Ω THD+N<1%	
Adapter Impedance	4-8Ω	

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

Mini 500 parameters (Mono)		
Input	SE	BAL
THD+N @1kHz (A-wt)	<0.0010% @2Ω 5W <0.0008% @4Ω 5W <0.0005% @8Ω 5W	<0.0009% @2Ω 5W <0.0007% @4Ω 5W <0.0005% @8Ω 5W
THD+N @No-wt 20kBW	<0.0050% @4Ω 5W <0.0040% @8Ω 5W	<0.0050% @4Ω 5W <0.0040% @8Ω 5W
SNR @MAX OUT 1kHz (A-wt)	123dB	126dB
Dynamic Range @1kHz (A-wt)	123dB	126dB
Frequency Response	20Hz-20kHz(±0.3dB) 20Hz-40kHz(±1.0dB)	20Hz-20kHz(±0.3dB) 20Hz-40kHz(±1.0dB)
OutPut Level	84Vpp @2Ω 89Vpp @4Ω 92Vpp @8Ω	84Vpp @2Ω 89Vpp @4Ω 92Vpp @8Ω
Noise (A-wt)	17uVrms	17uVrms
Input Sensitivity	2.0Vrms	4.0Vrms
Gain	25.7dB	19.8dB
Input Impedance	1.0kΩ	6.8kΩ
Output Power	500W x 1 @2Ω THD+N<10% 450W x 1 @2Ω THD+N<1% 300W x 1 @4Ω THD+N<10% 240W x 1 @4Ω THD+N<1% 150W x 1 @8Ω THD+N<10% 120W x 1 @8Ω THD+N<1%	
Adapter Impedance	2-8Ω	

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