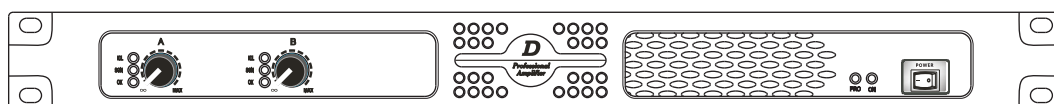


INNOVATIVE POWER SUPPLY SOLUTION

USER'S MANUAL



ST S-TRACK

Professional Power Amplifier

Notice

Warning!

Caution : to avoid electric shock hazard, please don't move the cover plate.
There is no repairable part inside. Contact qualified professional for repair.

The lightning sign with arrows inside the equilateral triangle means for warning to the users that there is non-insulated "Danger" voltage on the housing of the product, with shock hazard to human body.



The exclamation mark inside the equilateral triangle is to warn the users about the important operation and maintenance (repair) in the manual.



The lightning sign beside the output end of the amplifier means electric shock hazard. The lightning sign is marked on



the output connector that may cause danger. Don't touch output end when the amplifier power supply is on. Turn off the power of amplifier before all connections.

1. Read these provisions.
2. Keep well of these provisions.
3. Pay attention to all warnings.
4. Abide by these provisions.
5. Warning: to avoid catching fire or electric shock, the equipment can't be exposed to rain or humid environment. Please keep the device away from water.
6. Wipe only with dry cloth.
7. The highest operation ambient temperature is 50°C (122°F).
8. Don't restrict the ventilation of equipment fan or vent. Please ensure air intake and exhaust vents are unblocked.
9. Do not install the equipment that will generate heat, such as radiator, heat regulator, stove or other equipments (including amplifier).
10. Don't disable the security of the grounding connector. If all the connectors offered can't adapt with your sockets, please consult an electrician for replacement of the current socket. Do not remove the grounding connector or use an adapter to switch off the grounding circuit. In order to ensure your safety, make sure that the equipment is well grounded.
11. Protect the wiring from being treaded or extruded, and pay special attention to the connector, power socket and its output end from the equipment.
12. This product is not equipped with an all-pole power switch. To completely disconnect from the AC power, the AC connector must be unplugged from the AC socket or the device connector (IEC module) must be removed from the amplifier module. Make sure that the AC wiring connector or the equipment connector can be available at anytime so that it can be switched off in emergency.
13. The set is only connected to a properly rated power supply circuit.
14. Rack-mounted equipment must have reliable grounding (grounding device).

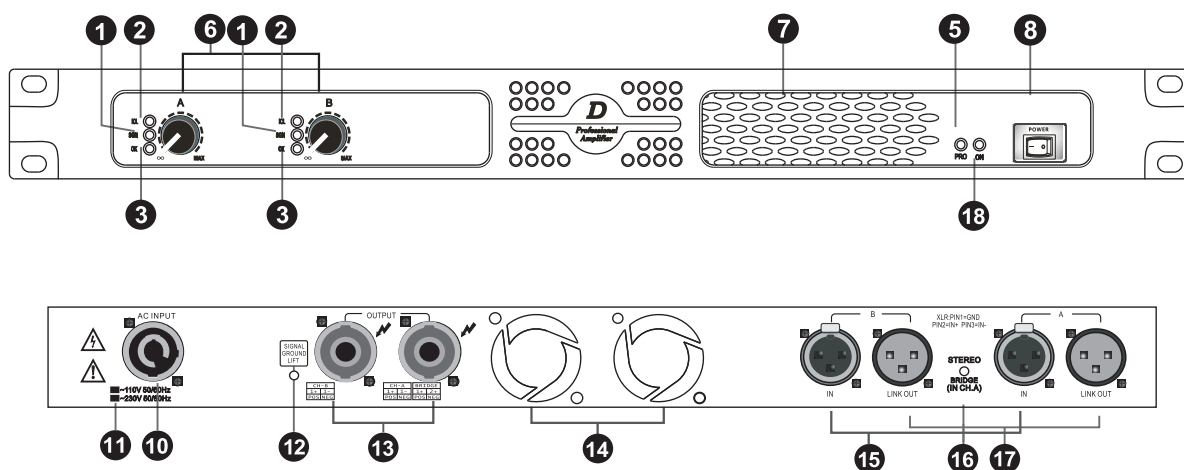
15. Only use the attachments or accessories specified by the Company.
16. During lightning storm or long time no use, please disconnect the equipment.
17. It shall be maintained by qualified personnel. If the equipment is damaged, for instance, the power cord or connector is damaged, or liquid has been spilled on the equipment or objects have fallen into the equipment, or the equipment is subjected to rain or moisture, working abnormally, or being dropped, then it must be repaired.
18. Do not drop or spill water on the equipment, never place objects filled with liquid on the equipment, such as a vase.
19. When mounting the equipment to the rack, please place in each set evenly. Otherwise, danger may occur due to the weight unbalance.

Brief Introduction

It is very grateful for you to purchase our power amplifier. Please read the following instructions to get the best performance of the product.

- 1U Super Slim Design
- 2 Sound Track
- XLR Input Connector
- Speakon Output Connector
- Each channel is equipped with an independent clipping limiter.
- Stereo
- Reliability Design
- Complete amplifier protection

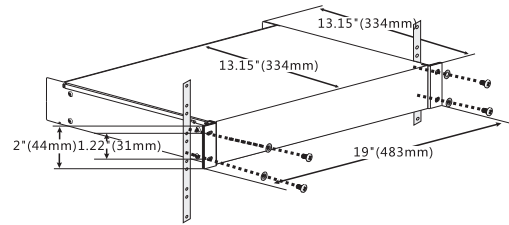
Control, connector and function



- | | |
|-----------------------------------|---|
| 1. Signal Indicator Light | 10. Power Cord Connector |
| 2. Clipping Indicator Light | 11. Operation Voltage Mark |
| 3. LED Indicator Light | 12. Signal Grounding Switch |
| 5. Protected Mode Indicator Light | 13. Speakon Output Connector |
| 6. Gain Control | 14. Cooling Air Intake |
| 7. Cooling Vent | 15. XLR Input Connector |
| 8. Power Switch | 16. Stereo and Bridge Connection Mode Selector Switch |
| | 17. XLR LINK Output Connector |
| | 18. Power Indicator Light |

Rack Installation

The amplifier is mounted to the equipment rack rail with four screws and washers. To use the amplifier outside the rack, the self-adhesive rubber washer shall be fitted at its bottom. For easy carrying purpose, the amplifier can be supported by rear rack struts.



When mounting the equipment to the rack, please place in each set evenly. Otherwise, danger may occur due to the weight unbalance.

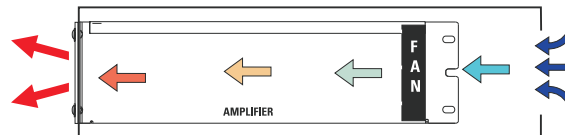
Cooling



Air flows through the rack to the back of the amplifier, and out at the front.

This keeps the rack cool. Do not block the front or rear air vent!

Ventilation inside the amplifier: cold air goes into the rear cover of amplifier through cooling fan. Hot air flows out from the front cover of the amplifier.



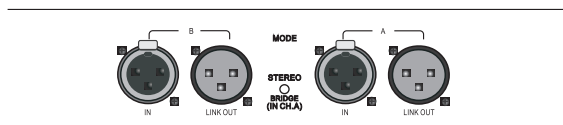
The correct AC voltage is indicated on the voltage mark at the rear panel, connection with wrong voltage may damage the amplifier or increase the risk of electric shock.

AC Power

Put the AC power on the power slot at the back of the amplifier. Notice: Before connecting the AC power, make sure that the AC power switch is OFF.

Input and Output

There are balanced 3-core XLR input end for each sound track. The input ends are all standard connections that can be changed quickly.



The input impedance is 20k ohms (balanced) or 10k ohms (unbalanced).

It is recommended to reduce AC noise and interference by balanced connection, especially when using long cables. Unbalanced connection applies to short cables. Signal source impedance shall be less than 600 ohms.

Mode Switch

The amplifier has a mode switch for switching the stereo or bridge connection mode. In addition, there is independent clipping limit for each sound track.

Select stereo or bridge connection mode.

The amplifier can be set as the normal stereo operation mode or bridge connection mono mode.

Stereo mode - each sound track keeps independent.

The amplifier is available for two different signals.

Bridge type - the setting uses double output power to merge two sound tracks into one.

Set the gain control for the input ends of the first and second sound tracks to the maximum. For higher output power, the rated load must be set and connected as indicated on the output part.



When operating in the bridge connection mode, do not connect the different types of input ends with any side of the sound track line pair.

Stereo and bridge connection mode ?the mode configuration switch must be set.

Bridge connection mode ?the sound track pair of bridge connection mode shall be configured to drive a single voice-frequency circuit. For bridge connection mode, you must select the selector switch.



When using bridge connection mode, the minimum impedance is 8 ohms; do not use the load less than 8 ohms in bridge connection mode! Please pay attention to the connection polarity in bridge connection mode.

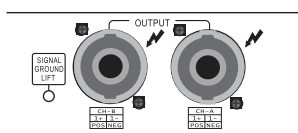
Output

SPEAKON Output

Each sound track is available to general 2-wire cable. In addition, sound track 1 is available to 4-wire cable for single-line stereo or bi- amplifier bi-amp connection.



Safety warning of output end! Do not touch the output end while the amplifier power is ON. Turn off the power of amplifier before all connections. Potential danger of electric shock!



When using bridge connection mode, the minimum impedance is 8 ohms; do not use the load less than 8 ohms in bridge mode! Please pay attention to the connection polarity in bridge connection mode.

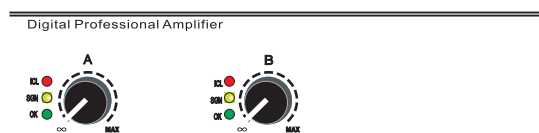
Gain Control

Turn the gain control clockwise, and the gain increases; turn the gain control counter clockwise, and the gain decreases.



The thermal protection circuit can be activated in case of continuous operation at high power, allowing the amplifier to stop operating, and the protection indicator lights are lit up. When the amplifier is cooled enough, the operation will restart.

Gain Control and Indicator Light.



LED Indicator Light

LED indicator light is used to monitor system operation and identify the general problems.
Indicator Light and Gain Control



Signal: green is on the left side of each gain control.

- Normal display: blink when the input signal exceeds -35 dB. When the signal is close to full power, the indicator light will blink continuously.
- If there is no display: check the input end connection and audio source of the signal. If the clipping indicator light only blinks few times or no signal blinks, please check if the output wiring is in short circuit.
- Abnormal display: If the signal indicator lights up without signal input, it may be caused by the system vibration or other faults. Disconnect the load and reduce the gain control completely. If the signal indicator light is lit up, the amplifier may need to repair.

Clipping: red is on the left side of each of the gain control.

- Normal display: when the amplifier goes beyond the full power drive, it will blink at any time. LED brightness indicates the degree of distortion. We can hardly feel the distortion caused by the short flash.
 - Abnormal display: if bright red blink occurs when the amplifier is working, it indicates that it is the hot mute or short-circuits output.
- Short circuit or overload output circuit will cause excessive clipping flash and possible overheating. If you can feel the distortion without clipping display, the problem may exist at the front or rear of the amplifier. Check whether there is any damaged speaker or overload signal source. Amplifier gain control shall be in the upper half of this range to prevent put overload.

Power: normal display: AC power switch is turned on: OK indicator light will be lit up.

- If there is no display: check the AC power wiring and AC power socket. Check the rear panel breaker.
- Temperature: red is on the left side of the gain control group.
- Normal display: the indicator light does not work under normal conditions.
- Abnormal display: if the amplifier overheats, the protected indicator light will be lit up when the temperature exceeds 100 °C. Keep the power on to allow the fan cool the amplifier.

Protection: Red is on the left side of the gain control group.

- Normal display: the light goes up when the amplifier switches to protection mute status.

The indicator light does not work under normal conditions.

- Abnormal display: If the protection LED is lit up, check whether the amplifier is in the protection mute status. Keep the power on to allow the fan cool the amplifier.

Technical Parameter

Channel Number	TWO CHANNEL
8Ω load	150W
4Ω load	250W
Frequency Response	20Hz-20KHz ± 3dB
THD + N	<0.05%@8Ω 1KHz
S/N Ratio	>90dB
Slewing rate	40V/μs
Damping Coefficient	>600@8Ω
Channel Isolation	> 100dB@8Ω 1KHz
Input Impedance	20KΩ (balance)/10KΩ (unbalance)
Input Sensitivity	1.0V
Protection Function	DC, short circuit, over heat, softstart
Control Function	Front Panel: power Switch/CH volume Rear Panel: mode/low pass/grounding
Height	1U
Volume	3.4Kg

* 0 dB=0.775 Vrms

* The specifications and appearance of this equipment may be changed without prior notice due to improvement.



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