User's Manual

A400.4 DRAGONFLY

DIGITAL POWER AMPLIFIER





SAFETY RELATED SYMBOLS





This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages within the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.



This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read. **Protective Ground Terminal** AC mains (Alternating Current)



Hazardous Live Terminal

ON: Denotes the product is turned on. **OFF:** Denotes the product is turned off.

WARNING

Describes precautions that should be observed to prevent the possibility of death or injury to the user.

CAUTION

Describes precautions that should be observed to prevent damage to the product.



Disposing of this product should not be placed in municipal waste and should be separate collection.

WARNING

Power Supply

Ensure that the mains source voltage (AC outlet) matches the voltage rating of the product. Failure to do so could result in damage to the product and possibly the user.

Unplug the product before electrical storms occur and when unused for long periods of time to reduce the risk of electric shock or fire.

External Connection

Always use proper ready-made insulated mains cabling (power cord). Failure to do so could result in shock/death or fire. If in doubt, seek advice, from a registered electrician.

Do not Remove any Covers

Within the product are areas where high voltages may present. To reduce the risk of electric shock do not remove any covers unless the AC mains power cord is removed.

Covers should be removed by qualified service personnel only.

No user serviceable parts inside.

To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder. Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

Protective Ground

Before turning the product ON, make sure that it is connected to Ground. This is to prevent the risk of electric shock.

Never cut internal or external Ground wires. Likewise, never remove Ground wiring from the Protective Ground Terminal.

Operating Conditions

Always install in accordance with the manufacturer's instructions.

To avoid the risk of electric shock and damage, do not subject this product to any liquid/rain or moisture. Do not use this product when in close proximity to water.

Do not install this product near any direct heat source.

Do not block areas of ventilation. Failure to do so could result in fire.

Keep product away from naked flames.

IMPORTANT SAFETY INSTRUCTIONS

Read these instructions
Follow all instructions
Keep these instructions. Do not discard.
Heed all warnings.
Only use attachments/accessories
specified by the manufacturer.

Power Cord and Plug

Do not tamper with the power cord or plug. These are designed for your safety. Do not remove Ground connections! If the plug does not fit your AC outlet seek advice from a qualified electrician. Protect the power cord and plug from any physical stress to avoid risk of electric shock. Do not place heavy objects on the power cord. This could cause electric shock or fire.

Cleaning

When required, either blow off dust from the product or use a dry cloth.

Do not use any solvents such as Benzol or Alcohol.

For safety, keep product clean and free from dust.

Servicing

Refer all servicing to qualified service personnel only.

Do not perform any servicing other than those instructions contained within the User's Manual.

Preface

Dear Customer.

Thanks for choosing **LTO** A400.4 DRAGONFLY and thanks for choosing one of the results of **LTO** AUDIO TEAM's endeavours.

For our ALTO AUDIO TEAM, music and sound are more than a job...are first of all passion and let us say...our obsession!

We have been designing professional audio products for a number of years in cooperation with many of the world's major brands in audio field.

The ALTO line presents unparalleled analogue and digital products made by Musicians for Musicians in our R&D centers in Italy, Netherlands, United Kingdom and Taiwan. We provide you with world -class designs, while our software development teams continue to develop and impressive range of audio specific algorithms.

Because we are convinced you are the most important member of \$\times\$LTO AUDIO TEAM and the one confirming the quality of our job, we would like to share with you our work and our dreams, pay attention to your suggestions and your comments. Following this idea we create our products and we will create the new ones! From our side, we guarantee you and we will supply you also in future the best quality, and the best fruits of our continuous researches and the best prices.

Our A400.4 DRAGONFLY is the result of many hours of listening and tests involving common people, area experts, musicians and technicians.

Nothing else to add, but that we would like to thank all the people that made the L TO A400.4 DRAGONFLY a reality available to our customers, thank our designers and all the L TO staff, there to make possible the realization of products containing our idea of music and sound and there to support you, our customers, in the best way, conscious that you are our best richness.

Thank you very much. ▲LTO AUDIO TEAM

5 WARRANTY	7
4. TECHNICAL SPECIFICATION	7
3.2 Rear Panel	
3.1 Front Panel	
3. CONTROL ELEMENTS	5
2. FEATURES	5
1. INTRODUCTION	5
TABLE OF CONTENT	

1. INTRODUCTION

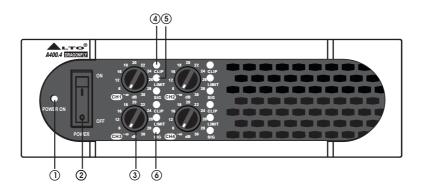
The ▲LTO A400.4 DRAGONFLY is D-class digital power amplifier with advanced Features and great efficiency. It delivers tremendous power in a small space, providing high level performance even under the most demanding conditions. The amplifier contains four independent channels with separate power supplies and protection system. Each channel has independent protective circuitry against open circuit, short circuit, mismatched loads and over temperature. Thanks to the use of selected and expensive components, the performance of A400.4 DRAGONFLY is worth much more than its price.

2. FEATURES

- 1.5 U height and 1/2 rack space, four-channel high power amplifier
- · Fantastic audio quality even with extremely high volume levels
- · Solid and durable, can be mounted into a cabinet
- · User-controllable limiter
- 4 x 120Watts on 4 ohms (EIAJ)
- 4 x 65 Watts on 8 ohms (EIAJ)
- Balanced XLR inputs and 1/4"TRS jack to ensure noiseless long wiring.
- 1/4"TS jack connectors for output
- · Front panel LED indicators for Clip, Limit, Power and Signal
- · Accurate gain control
- Independent thermal overload protection on each channel automatically protects amplifier and speakers
- · Single channel over-heat protection

3. CONTROL ELEMENTS

3.1 Front Panel:



1 Power LED

This LED lights up when the unit is powered on.

2 Power Switch

Turn the unit on or off.

3 Level Control for Channels 1 & 2 & 3 & 4

Adjust the output signal level of respective channel.

4 Clip LED

When the LED lights up, it means the output level of signal is too high and it is time to reduce the signal level until Clip LED turns off.

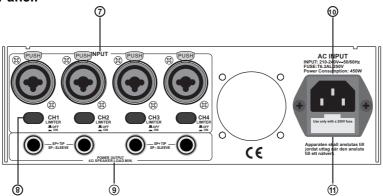
⑤ Limit LED

While the unit is limiting the output signal, the LED lights up.

6 Signal LED

When there are signals present in this unit, the LED lights up, or it will be off.

3.2 Rear Panel:



7 Input Connector

These connectors connect the input signal of these four channels separately.

8 Limiter Switch

Set this switch of respective channel at "ON" position, once the output level is above maximum output level, the limiter begins, thus keeping consistent output level of respective channel to protect apparatus. If the switch is set at "OFF", the limiter doesn't work.

9 Output Connector

These 1/4" TS jack Connectors are used to connect with your speakers.

10 AC Input

Use it to connect your A400.4 DRAGONFLY to the supplied AC cord only. Please check the voltage in your country before attempting to connect the unit with the main AC.

(f) Fuse Holder

The fuse can protect the AC supplies circuit of the equipment. **CAUTION:** if there is something wrong with the fuse or the fuse needs to change, use only the recommended fuse type as indicated in this unit. If the fuse continues to blow after replacing, discontinue using this unit before being repaired.

4. TECHNICAL SPECIFICATION

MODEL	A400.4 DRAGONFLY	
20Hz 20KHz@0.1%THD, Stereo Mode		
8 ohms per channel(EIAJ)	65W	
4 ohms per channel(EIAJ)	120W	
4 ohms per channel(RMS)	62W±3W (at THD:1%)	
Input Sensitivity @4 ohms +3dBu		
Controls	FRONT: Power switch, LEVEL knobs	
	REAR: Four LIMITER Switches for channel 1- channel 4	
Indicators (per channel)	Power-On: Green LED	
	Clip: Red LED	
	Limit: Yellow LED	
	Signal: Green LED	
Connectors of each channel	Input: COMBO connector	
	Output: 1/4" TS jack connector	
Power Supply	190-240 Vac~50Hz / 95-120Vac~60Hz	
Dimension	314mm x 208.5mm x 66.6mm	
Net Weight	3.8Kg	

5. WARRANTY

1. WARRANTY REGISTRATION CARD

To obtain Warranty Service, the buyer should first fill out and return the enclosed Warranty Registration Card within 10 days of the Purchase Date.

All the information presented in this Warranty Registration Card gives the manufacturer a better understanding of the sales status, so as to purport a more effective and efficient after-sales warranty service. Please fill out all the information carefully and genuinely, miswriting or absence of this card will void your warranty service.

2. RETURN NOTICE

- 2.1 In case of return for any warranty service, please make sure that the product is well packed in its original shipping carton, and it can protect your unit from any other extra damage.
- 2.2 Please provide a copy of your sales receipt or other proof of purchase with the returned machine, and give detail information about your return address and contact telephone number.
- 2.3 A brief description of the defect will be appreciated.
- 2.4 Please prepay all the costs involved in the return shipping, handling and insurance.

3. TERMS AND CONDITIONS

- 3.1 ▲LTO warrants that this product will be free from any defects in materials and/or workmanship for a period of 1 year from the purchase date if you have completed the Warranty Registration Card in time.
- 3.2 The warranty service is only available to the original consumer, who purchased this product directly from the retail dealer, and it can not be transferred.
- 3.3 During the warranty service, ▲LTO may repair or replace this product at its own option at no charge to you for parts or for labor in accordance with the right side of this limited warranty.
- 3.4 This warranty does not apply to the damages to this product that occurred as the following conditions:
 - Instead of operating in accordance with the user's manual thoroughly, any abuse or misuse of this product.
 - Normal tear and wear.
 - The product has been altered or modified in any way.
 - Damage which may have been caused either directly or indirectly by another product / force / etc.
 - Abnormal service or repairing by anyone other than the qualified personnel or technician.
 - And in such cases, all the expenses will be charged to the buyer.
- 3.5 In no event shall ▲LTO be liable for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you.
- 3.6 This warranty gives you the specific rights, and these rights are compatible with the state laws, you may also have other statutory rights that may vary from state to state.

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