

### Technical specifications for Lejonklou Tundra 1.1

Dimensions (WxHxD)	350x69x350 mm
Weight	3.6 kg
Mains input voltage (two versions)	90-132 or 187-264 VAC
Mains fuses (on both live and neutral)	T3.15A
Signal input impedance	10 k $\Omega$
Signal input maximum level	1.65 VAC and 40 mVDC
Signal gain	20.8 dB (11 times)
Output impedance/Rec. load	0.05 $\Omega$ /4–16 $\Omega$
Output power (all ratings continuous)	2*24 W into 8 $\Omega$ 20-20k Hz
RMS at less than 0.1% THD and	40 W/ch into 8 $\Omega$ at 1 kHz
mains voltage >103 or >207 VAC)	70 W/ch into 4 $\Omega$ at 1 kHz
Output peak voltage	26 V
Frequency range (-3 dB)	DC to 130 kHz
Power consumption	200 W max, 30 W idling

### Warning

This appliance must be earthed. Lethal voltages inside, do not open! No user serviceable parts inside. Refer servicing to qualified personnel. To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Never use an appliance with a damaged power cord, as there is risk of lethal shock.

The power cord is internally colour marked as follows:

Europe/UK: Live=Brown, Neutral=Blue, Ground=Green/yellow

North America: Live=Black, Neutral=White, Ground=Green

CE Declaration of conformity:

This appliance follows the directives 73/23/EEC (LVD) and 89/336/EEC (EMC) by conforming to the following standards:

EN60065:2002 (Safety)

EN55013:2001 (Emissions)

EN55020:2002 (Immunity)



### Contact information

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# LEJONKLOU

## *Tundra power amplifier*

### *User Manual*

## **PLEASE READ THIS MANUAL CAREFULLY!**

### **Positioning your Tundra**

Position Tundra on a flat, rigid surface with plenty of space around it, so that air can circulate. The best sounding support we know is Harmonihyllan Mimer. If placing Tundra on a Mimer, make sure the four rubber feet of Tundra are centrally positioned on the shelf. The feet of Tundra may appear simple in construction, but are in fact carefully chosen for optimal performance. Tighten the feet using your fingers only.

### **Connecting your Tundra (always done when switched off!)**

Connect your pre amplifier to the top (white) phono sockets, labelled LINE IN. As Tundra is DC-coupled, you can only use preamplifiers that have **zero** DC voltages on their outputs.

The input signal(s) can be daisy chained to more power amplifiers by using the LINE OUT phono sockets (red). Please note that the colours white and red do **not** correspond to left and right. These connectors were chosen for best sound quality and the manufacturer refused to make them in black.

Connect your loudspeaker pair to the speaker outputs, using a cable terminated with Lejonklou 4 mm safety connectors.

**Warning:** Although individual banana connectors are possible to fit, they are illegal to use in the EU for safety reasons. Use only Lejonklou 4 mm safety connectors! For optimal sound quality, we recommend **single wire** loudspeaker cable. Lejonklou offers optimal loudspeaker cables in custom lengths, using the best parts we're able to find. Please contact us if you need a pair.

When all connections have been made, you can connect the power cord and switch Tundra on. A sudden "thud" in the loudspeakers is normal. Tundra will reach an optimal temperature after about 30 minutes of operation. We recommend Tundra to be switched off, using the rear mains switch, when not in use.

The blue lights on the front can be turned off using the switch labelled LIGHTS OFF. This switch affects the front lights **only**.

### **Protection – important!**

Two circuits protect Tundra against internal overheating:

If the internal heat sink reaches 70°C, one or both output stages will mute, to prevent further heating. Normal operation will return once the heat sink has cooled down sufficiently.

If the power supplies are heated above 50°C, they will gradually derate their output in order not to become overheated.

Tundra is also protected against continuous over current.

### **Tundra can, however, easily be damaged by improper use:**

One way is to short the speaker output terminals while the amplifier is in operation. Protecting Tundra against a sudden short circuit was not possible without loss of sound quality. Therefore such protection was intentionally omitted. In addition, no such protection circuitry is 100% effective.

Therefore: Never short the speaker outputs!

A second way to damage Tundra is to increase the input signal far beyond the limits of what it can handle (maximum input level is 1.65 VAC). This can result in the output stage oscillating and destroying itself. In practice, however, Tundra will clip hard and sound absolutely terrible long before there is any risk of damage.

Therefore: Always play Tundra on volumes where it sounds good!

**Not paying attention to the above two precautions can damage both your Tundra and the connected loudspeakers!** Lejonklou will not be held responsible for any speaker damage due to a Tundra being short circuited or driven beyond its capabilities.

### **We hope you will enjoy your Tundra!**

If you have any questions, suggestions or encounter a problem with it, please contact your retailer or Lejonklou directly.