



Owner's Manual SDA-2400

Version 04-01-2016

Welcome

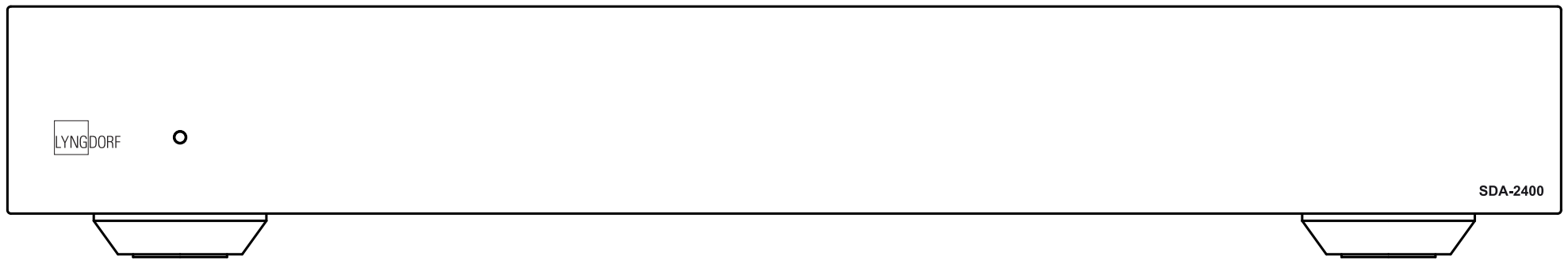
Congratulations on your purchase of the SDA-2400 digital stereo power amplifier.

With this purchase, you have joined the ranks of an elite group of people who believe that perfect sound is more than a luxury. It's a requirement. The SDA-2400 will deliver an audio experience that will far exceed your expectations. We thank you for placing your confidence in Lyngdorf.

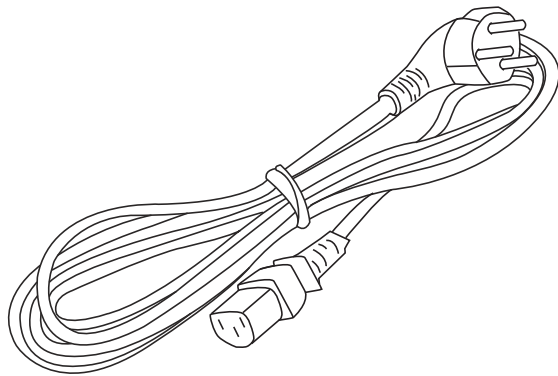
For more in-depth information about the technologies used in Lyngdorf products, please visit www.lyngdorf.com.

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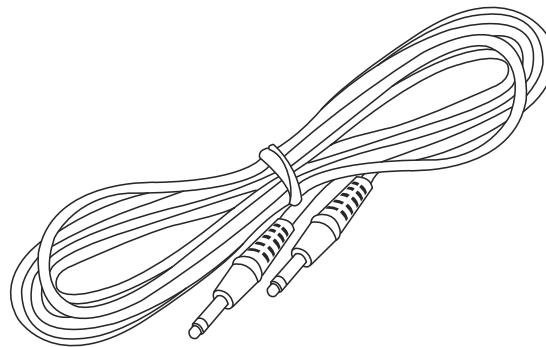
What's in the box



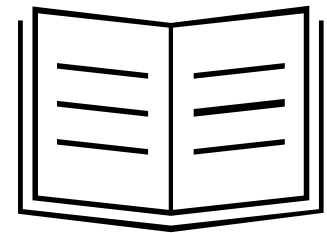
SDA-2400



Mains cord

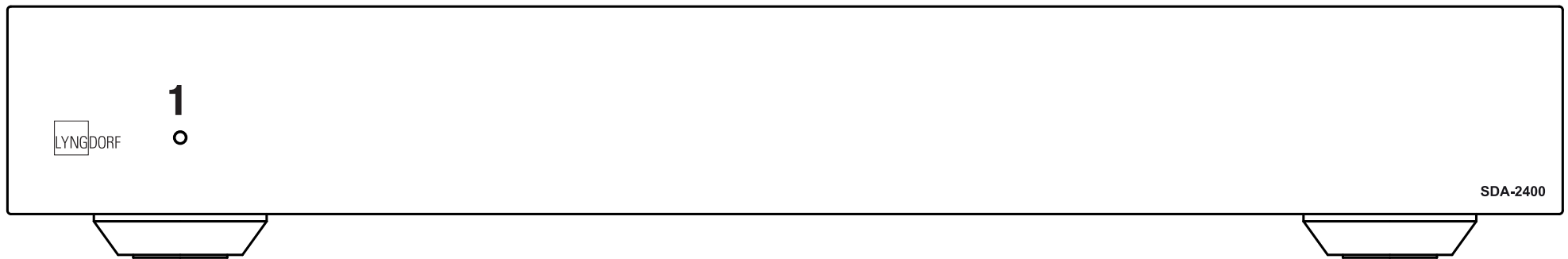


Trigger cable



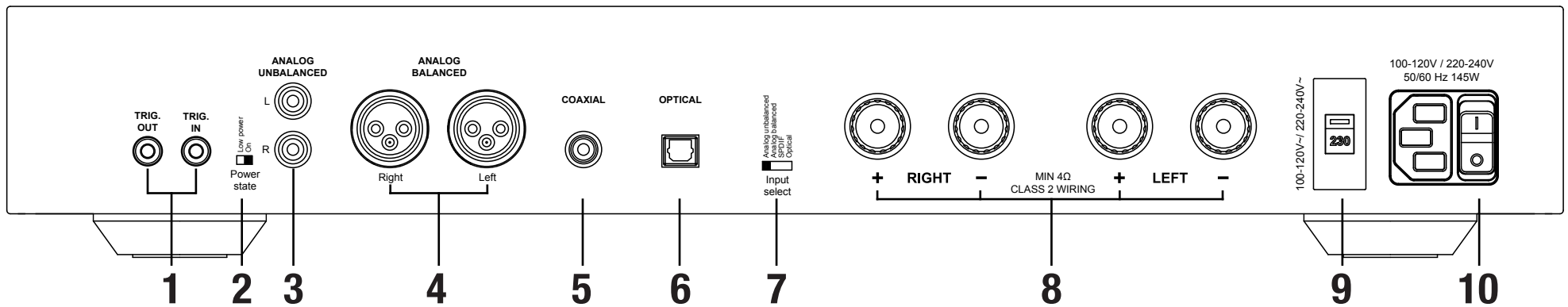
Owner's Manual

Front panel



- 1. Operate** indicates the operational status of the SDA-2400:
 - Strong light - The SDA-2400 is operating normally.
 - Flashing - The SDA-2400 is in standby mode.

Rear panel



1. Trigger in and out

In order to control the power state from another product (ex: pre-amplifiers or media players) with trigger control, the SDA-2400 is equipped with 3.5 mm mono mini jack sockets.

- If there is a plug in the “Trigger In” socket with no voltage applied, the SDA-2400 is in standby mode.
- If a DC voltage of 5-24V or a 50Hz AC voltage of 4-17Vrms is applied, the SDA-2400 will go into Operate mode.
- “Trigger Out” is for daisy-chaining other SDA-2400s and controlling them all by the same signal. Connect the control signal to “Trigger In” on the first SDA-2400 and connect its “Trigger Out” to “Trigger In” on each subsequent unit.
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2. Power state

As the SDA-2400 has an extremely low power consumption in standby mode, there is no on/off switch on the front of the product. Instead, power is controlled automatically by the amplifier (this is bypassed with use of trigger controls.)

“Low Power” means that the SDA-2400 will turn on automatically when it detects a signal on the

selected input. If a signal is not detected for around 30 minutes, the amplifier will go into standby mode. “On” will keep the SDA-2400 permanently turned on.

3-4. Analog unbalanced and balanced input

For connection to products with analog output, you may only connect to one input at a time. The input sockets are internally connected in parallel, so ALWAYS use EITHER the XLR inputs OR the phono inputs. NEVER use both at the same time.

5-6. Coaxial input and optical input

For connection to products with digital output, SPDIF and Toslink inputs are available.

7. Input select

Set the selector to the input in use.

8. Loudspeaker connectors

Connect your speakers to Left and Right connectors. The connectors allow for use of banana plugs and bare wire up to 5mm².

9. Voltage selector

The voltage selector must be in the correct position for your local mains supply.

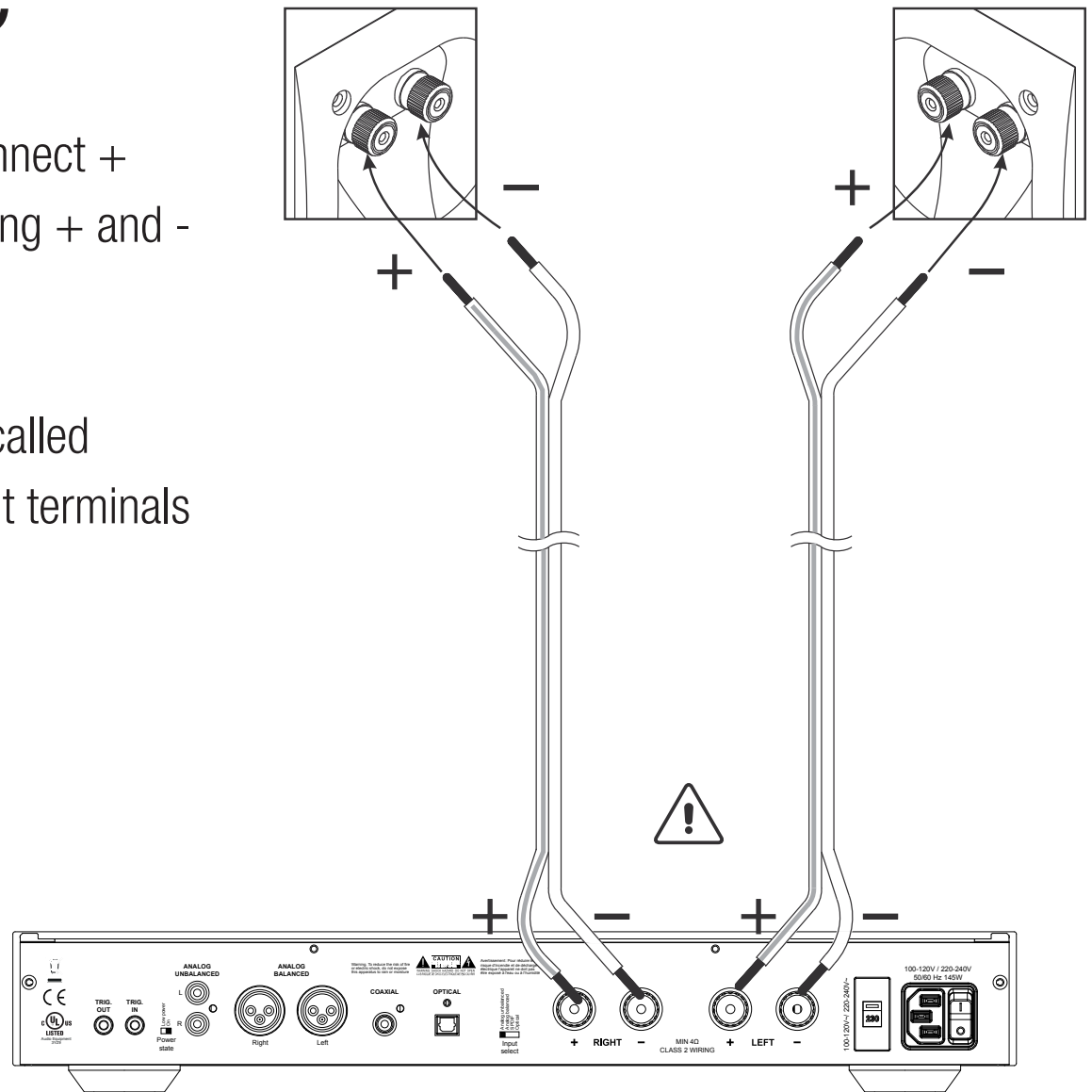
10. Mains connector and switch

Be sure that the power cord is inserted firmly in the connector. The mains switch will remove the amplifier from your mains power.

Connection guide

When connecting the speakers, always connect + and - from the amplifier to the corresponding + and - terminals on the speaker.

Warning: Never run the SDA-2400 in so-called “bridge mode.” Bridging the speaker output terminals will damage the amplifier.



Cleaning and maintenance

The SDA-2400 does not require any regular maintenance except to keep its exterior clean. Simply wipe it with a clean, soft cloth. A small amount of non-abrasive cleaner on the cloth can be used to remove any dirt or fingerprints. Do not use abrasive cleaners or cleaners containing liquid solvents.

Technical assistance

For the latest version of this manual, please check the Lyngdorf website: www.lyngdorf.com.

If you have any questions regarding your Lyngdorf product, please contact your nearest Lyngdorf representative or:

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Specifications

AUDIO		
Parameter	Value	Note
Coaxial	($\leq 192\text{kHz}$ / 24 bit)	
Optical	($\leq 96\text{kHz}$ / 24 bit)	
Balanced input impedance	10 KOhm	AC-coupled
Unbalanced input impedance	200 KOhm	AC-coupled
Max. input voltage	$\pm 15\text{Vp AC}$, 0-20 VDC	
Input sensitivity	2 Vrms	400 W/4 Ohms
Output power, 8 Ohms	2 x 200 W	1 kHz, 0.05% THD+N
Output power, 4 Ohms	2 x 400 W	1 kHz, 0.05% THD+N
Frequency response	0.3 Hz – 31 kHz	-3 dB points, 4 Ohms load.
Frequency response	-0dB/+0.3dB	20 Hz - 20 kHz, 8 Ohms load
Frequency response	-0dB/+0.1dB	20 Hz – 20 kHz, 4 Ohms load

AUDIO

Parameter	Value	Note
THD+N, 1 W /8 Ohms	0.004%	A-wgt.
THD+N, 1 W/4 Ohms	0.006%	A-wgt.
THD+N, 100 W/8 Ohms	0.02%	A-wgt.
THD+N, 180 W/8 Ohms	0.05%	A-wgt.
THD+N, 200 W/4 Ohms	0.02%	A-wgt.
S/N ratio	117 dB	A-wgt. ref 200 W/8 Ohms.
Channel separation	96 dB	1 kHz, 200 W/8 Ohms.
Peak output current	±40 A	
Output common mode voltage	35 VDC	Ref. Ground. The amplifier can not be used in bridged mono mode
Output DC voltage	±5 mV	

All audio measurements, except frequency response, are measured with a 20KHz low-pass filter in accordance with AES-17.

MAINS

Parameter	Value	Note
Power consumption	<0.4 W	STANDBY mode
Power consumption	26 W	OPERATE mode, no output.
Power consumption	145 W	2 x 50 W/4R
Power consumption	493 W	2 x 200 W/4R

TRIGGER

Parameter	Value	Note
TRIGGER IN connector	3.5 mm (1/8") mono jack	Case=Gnd, Tip=Input
TRIGGER OUT connector	3.5 mm (1/8") mono jack	Case=Gnd, Tip=Output
TRIGGER IN impedance	10 Kohm	
TRIGGER IN sensitivity	> 2.4V DC ON > 1.7V DC OFF	Positive DC voltage on Tip.
Max. input voltage	±25 Vp	

SIGNAL DELAY

Parameter	Value	Note
Digital Input	0,6 mSec	
Analog Input	0,0 mSec	

MECHANICAL

Parameter	Value	Note
Width	45 cm	
Depth	36.7 cm	Including loudspeaker connectors.
Height	7.2 cm	Including feet.
Weight	6.5 kg	

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