



# LUCIA® 240/2M



- ▶ **Maximum output power across range of loads** – 2 x 120 W into 8, 4 or 2 ohms
- ▶ **Comprehensive DSP features** – Per channel presets for high-pass filter, parametric EQ, multi-band compressor, and look-ahead limiter
- ▶ **Automatic Dynamic Loudness Contouring™** – DSP automatically adapts to optimize performance at any output level
- ▶ **Enhanced Bass Profile™** – DSP optimization for extended LF response with small loudspeakers
- ▶ **Optimized presets** – Available for specific loudspeaker models<sup>1</sup>
- ▶ **Auto Load Sense™** – Proprietary auto-set VPL™ (Voltage Peak Limiter) for optimum performance with any connected load
- ▶ **4 x 4 mix matrix** – Route input signals internally to amplifier or to line-level outputs
- ▶ **Configuration software** – Windows and Mac software wizard for initial set-up, and advanced editor for preset configuration (connection via USB)
- ▶ **Efficient Class D amplifier** – Patented design for low distortion and minimal heat dissipation
- ▶ **GPIO** – Remote control (e.g. wall panel) for channel switching, level control and integration with paging systems
- ▶ **Compact form factor** – Half-rack, 1U chassis and supplied bracket for discreet on-wall mounting (e.g. behind display screens)
- ▶ **Fail-safe operation** – Comprehensive short circuit, thermal, and under-voltage protection
- ▶ **Universal power supply** – Operates at 100 - 240 V AC (50 or 60 Hz)
- ▶ **ENERGY STAR® qualified<sup>2</sup>** – Conforms to latest specification energy efficiency standards

## Great sound, flexibility and ease of use

Lab.gruppen's innovative LUCIA (Localized Utility Compact Intelligent Amplification) brings superior audio performance and extraordinary flexibility to a decentralized approach in AV systems design. Power, processing, control and I/O are conveniently placed exactly where they are needed. In many AV applications requiring consistent, high quality audio output, LUCIA offers a logical, cost-efficient and scalable solution that eliminates the complications and added expense of a centralized equipment room for amplification, matrixing and processing. All LUCIA amplifiers incorporate a digital, firmware-controlled front end coupled to a robust, durable and highly efficient Lab.gruppen output stage, all of which make it the best sounding compact amplifier in its category.

## Fast installation, reliable operation

LUCIA amplifiers install quickly and easily, with the supplied wall-mount bracket enabling discreet on-wall placement behind video displays. All connections are via Euroblock screw terminals, and level setting is available on front-panel potentiometers. An advanced protection scheme protects the amplifier and connected loudspeakers from potential damage caused by clipping, thermal overload, or extreme low line voltage.

## Integrated mix-matrix and DSP

A versatile 4 x 4 mix-matrix and comprehensive DSP features eliminate the need for external mixers and processors in many applications, saving time and money. A software wizard facilitates fast set-up, while the PC editor allows offline configuration of common presets that can be quickly downloaded to multiple units via USB.

## Green credentials

LUCIA amplifiers are ENERGY STAR qualified<sup>2</sup>, making them an ideal choice for installation in projects seeking energy efficient certifications. The amplifiers automatically enter standby mode after a 20 minute period with no signal input, consuming less than 1 watt. Automatic power-up occurs within two seconds after an input signal is sensed.

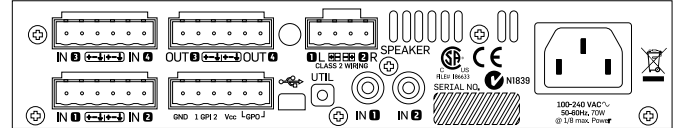
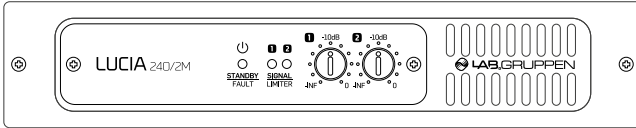
<sup>1</sup> Presets available at launch for selected Tannoy loudspeakers including the industry leading CMS Series in-ceiling systems.

<sup>2</sup> Performance meets all criteria; certification pending.

## Applications

- Retail outlets
- Bars & restaurants
- Entertainment venues
- Corporate board rooms
- Classrooms
- Multimedia spaces
- Hotel reception/lobbies
- Museums & galleries
- Small corporate event spaces





# Specifications LUCIA 240/2M

<b>General</b>	
Number of powered channels	2
Total output all channels driven	240 W
Max output voltage per channel <sup>1)</sup>	43.8 V peak
Max. output current per channel	7.8 Arms
<b>Max. Output Power</b> (all ch.'s driven)	
2 ohms	120 W
4 ohms	120 W
8 ohms	120 W
16 ohms	60 W
<b>Performance</b>	
THD 20 Hz - 20 kHz at 1 W into 8 ohms	<0.3%
THD at 1 kHz and 1 dB below clipping	<0.2%
Signal To noise ratio into 8 ohms	>101 dBA
Channel separation (Crosstalk) at 1 kHz	>60 dB
Frequency response	5 Hz - 22 kHz
Input impedance	10 kOhm
Input common mode rejection, CMR	40 dB
<b>Gain, Sensitivity and Limiters</b>	
VPL for 16 ohm mode	44 V
VPL for 8 ohm mode	44 V
VPL for 4 ohm mode	31 V
VPL for 2 ohm mode	22 V
Sensitivity, balanced input	4 dBu / 1.23 Vrms
Sensitivity, RCA input	-2 dBu / 0.62 Vrms
Input headroom for clip, balanced <sup>2)</sup>	12 dBu / 3.09 Vrms
Input headroom for clip, RCA <sup>2)</sup>	6 dBu / 1.55 Vrms
<b>Connectors and switches</b>	
Input connectors (per ch.)	3-pin detachable screw terminals, electronically balanced
Input connectors (ch 1 & 2)	Unbalanced RCA type
Output connectors (per ch.)	2-pin detachable screw terminals
GPI (power control input) <sup>3)</sup>	2 channels of voltage sense type. 4 pins in a detachable screw terminal. Default for gain.
GPO (power state output) <sup>3)</sup>	Contact closure type, 2 pins in a detachable screw terminal
USB	Default for external monitoring of fault/protection/power off For firmware update and configuration for the matrix models
Cooling	One fan, no filter required, front-to-rear airflow, temperature controlled speed Can stay off if the sustained power average stays below 2 x 6 W and the surrounding temperature is below 25 degrees C
Auto mode	The power state is controlled automatically with the audio signal
Level adjustment (per channel) <sup>3)</sup>	Front panel potentiometer, detented from -inf to 0 dB
<b>Matrix model features</b>	
Inputs processing block <sup>4)</sup>	Default with 4 parametric EQ for each of the 4 input channels
Mix-matrix routing block <sup>4)</sup>	4 in - 4 out mix-matrix controllable from GPI
Outputs processing block <sup>4)</sup>	High pass filter Output EQ Output look ahead limiter ADLC (Adaptive ISO 226 compensation)
Two line level outputs <sup>5)</sup>	Each capable of driving 6 LUCIA units in parallel
Latency from any input to any output	9.15 ms
<b>Power</b>	
Nominal voltage	100 - 240 VAC
Operating voltage	85 - 265 VAC
Standby consumption	<1 W
Mains connector	IEC inlet
<b>Dimensions</b>	
Weight	W: 216 mm (8.5"), H: 44 mm (1.7"), D: 280 mm (11") 1.9 kg (4.2 lbs.)
Finish	Black aluminum front and black steel chassis
Approvals	CE, CSA, CCC, PSE, FCC, ENERGY STAR
Warranty	3 years, components and factory workmanship. See full warranty statement.

**Note 1):** Into 8 ohms and higher

**Note 2):** An analog soft limit will be engaged on the input above this level to reduce the clip distortion

**Note 3):** Can be configured for different functionality via USB

**Note 4):** DSP settings determined by settings downloaded from the Application Browser software; not configurable on the unit itself

**Note 5):** Noise levels typically allow daisy chaining of 3 LUCIA amplifiers without issues

All specifications are subject to change without notice.



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