LUCIA® 120/2M

- **Maximum output power across range of loads** – 2 x 60 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[1]
- **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[2]** – 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

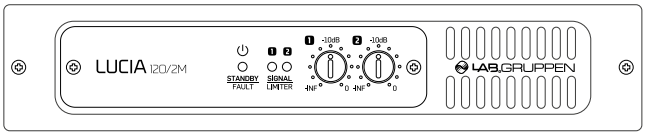
LUCIA amplifiers are ENERGY STAR qualified[2], making them an ideal choice for installation in projects seeking energy efficient certifications. The amplifiers automatically enter standby mode after a 20 minute period with no signal input, consuming less than 1 watt. Automatic power-up occurs within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

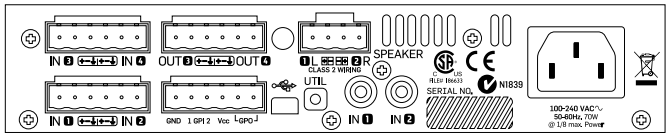
[1] Presets available at launch for selected Tannoy loudspeakers including the industry leading CMS Series in-ceiling systems.

[2] 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 120/2M

General	
Number of powered channels	2
Total output all channels driven	120 W
Max output voltage per channel [1]	31 V peak
Max. output current per channel	5.5 Arms
Max. Output Power (all ch.'s driven)	
2 ohms	60 W
4 ohms	60 W
8 ohms	60 W
16 ohms	30 W
Performance	
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	>98 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
Gain, Sensitivity and Limiters	
VPL for 16 ohm mode	31 V
VPL for 8 ohm mode	31 V
VPL for 4 ohm mode	22 V
VPL for 2 ohm mode	15 V
Sensitivity, balanced input	4 dBu / 1.23 Vrms
Sensitivity, RCA input	-2 dBu / 0.62 Vrms
Input headroom for clip, balanced [2]	12 dBu / 3.09 Vrms
Input headroom for clip, RCA [2]	6 dBu / 1.55 Vrms
Connectors and switches	
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) [3]	2 channels of voltage sense type. 4 pins in a detachable screw terminal. Default for gain.
GPO (power state output) [3]	Contact closure type, 2 pins in a detachable screw terminal Default for external monitoring of fault/protection/power off
RS232 [4]	Can be controlled and monitored by third parties via RS232 using both the GPI pins
USB	For firmware update and configuration with the Application Browser software
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)	Front panel potentiometer, detented from -inf to 0 dB
Processing Features	
Inputs processing block [5]	4 EQ sections per input
Mix-matrix routing block [5]	4 in - 4 out mix-matrix controllable from GPI
Outputs processing block [5]	4 EQ sections per output (presets available for many loudspeakers) User adjustable output look ahead limiter ADLC (Adaptive ISO 226 compensation)
Two line level outputs [6]	Each capable of driving 10 LUCIA devices in parallel
Latency from any input to any output	User adjustable from 9.15 to 137 ms
Power	
Nominal voltage	100 - 240 VAC
Operating voltage	85 - 265 VAC
Standby consumption	<1 W
Mains connector	IEC inlet
Dimensions	W: 216 mm (8.5"), H: 44 mm (1.7"), D: 280 mm (11")
Weight	1.9 kg (4.2 lbs.)
Finish	Black aluminum front and black steel chassis
Approvals	CE, CSA, CCC, PSE, FCC, ENERGY STAR

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): Included from October 2016 and onwards
Note 5): DSP settings determined by settings downloaded from the Application Browser software; not configurable on the unit itself
Note 6): Noise levels typically allow daisy chaining of 3 LUCIA amplifiers without issues

All specifications are subject to change without notice.