



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 models¹
- ▶ **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® qualified²** – 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 qualified², 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.

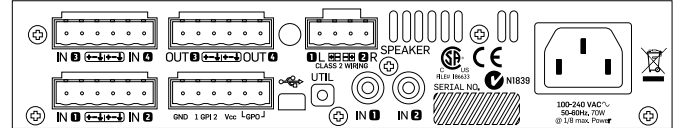
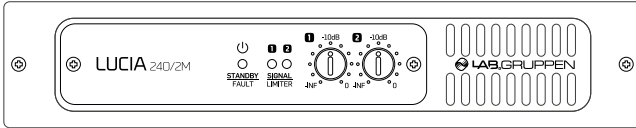
¹ Presets available at launch for selected Tannoy loudspeakers including the industry leading CMS Series in-ceiling systems.

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 240/2M

| | |
|---|---|
| General | |
| Number of powered channels | 2 |
| Total output all channels driven | 240 W |
| Max output voltage per channel ¹⁾ | 43.8 V peak |
| Max. output current per channel | 7.8 Arms |
| Max. Output Power (all ch.'s driven) | |
| 2 ohms | 120 W |
| 4 ohms | 120 W |
| 8 ohms | 120 W |
| 16 ohms | 60 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 | >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 |
| Gain, Sensitivity and Limiters | |
| 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 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 |
| 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) ³⁾ | Front panel potentiometer, detented from -inf to 0 dB |
| Matrix model features | |
| Inputs processing block ⁴⁾ | Default with 4 parametric EQ for each of the 4 input channels |
| Mix-matrix routing block ⁴⁾ | 4 in - 4 out mix-matrix controllable from GPI |
| Outputs processing block ⁴⁾ | High pass filter Output EQ Output look ahead limiter ADLC (Adaptive ISO 226 compensation) |
| Two line level outputs ⁵⁾ | Each capable of driving 6 LUCIA units in parallel |
| Latency from any input to any output | 9.15 ms |
| Power | |
| Nominal voltage | 100 - 240 VAC |
| Operating voltage | 85 - 265 VAC |
| Standby consumption | <1 W |
| Mains connector | IEC inlet |
| Dimensions | |
| 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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