

# LEXA

AUDIO ELECTRONICS

Compact and powerful audio amplifiers

## L9000QX Quad Amplifier



The new quad amplifier L9000QX uses numerous innovative technologies as **Digital Dynamic Drive\*** and **MOSFET Linear Drive\*\*** that allow to create a high-quality product. Four features particularly stand out in a positive way: High efficiency (no D-class distortion), extremely low THD + noise, a wide frequency response and a high slew rate. The efficiency is evidenced by great power and yet a compact and lightweight body construction. Thanks to its low THD and high slew rate the amp provides a remarkably transparent high-definition sound with a great power reserve. The L9000QX contains an audio processor allocating a multitude of handy modes: 4-channel mode with four separate channels (4 in/4 out), stereo 2-way-mode with actively split bass and tops without additional devices, and many more modes - everything is possible!

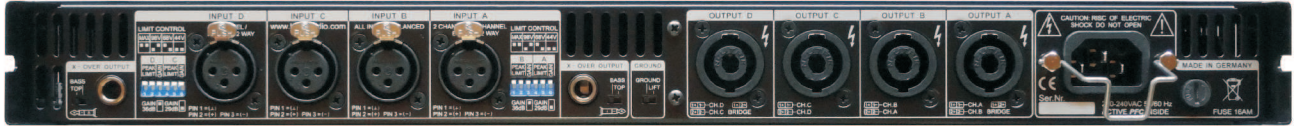
The output power of each channel can be limited by adjustable limiters - this allows more freedom choosing the loudspeakers. Due to the flexible concept the amp is multi-functionally applicable. A very noiseless (almost inaudible) cooling makes working with the amplifier particularly enjoyable.

- **Great power** 4 x 2000 Watt at 4 Ohm
- **Extremely compact** 19" / 1U / 312mm mounting depth / 6,5kg
- **High flexibility** thanks to numerous handy modes
- **High versatility** due to a flexible concept
- **High efficiency** thanks to Digital Dynamic Drive technology
- **Nearly inaudible cooling**
- **Lexa audio quality** Very high sound quality without D-Class distortion thanks to Mosfet Linear Drive technology
- **Dynamic limiters** Separately adjustable limiters in each channel for limiting the max. output power
- **Integrated X-Overs** allow diverse modes as e.g. stereo 2-way-mode without any additional devices
- **Easy handling** also on complex configurations thanks to an automatic adjustment of individual components.
- **Standard connectors** XLR inputs, Speakon outputs
- **Numerous protection functions**
- **Regulated swith-mode power supply** with an active PFC, great power reserve and a low off-load power
- **Mechanical high-class construction** Robust metal case with an eloxadized alu. front panel and exchangeable rack corners

\* **Digital Dynamic Drive** is a technology engineered to increase the amplifier's dynamics and efficiency. A special processor produces a very high efficiency close to a D-class amp level. However, at the same time, the typical D-class distortions are non-existent.

\*\* **MOSFET Linear Drive** is a technology developed to essentially improve the sound quality. L9000QX uses Power MOSFETs with the best SOA max. values. The MOSFETs are linear driven by a special circuit; this brings their characteristics close to those of ideal MOSFETs, significantly increases the amplifier's sound quality and enables a clear and transparent sound.

## L9000QX rear panel



### Specifications

### L9000QX

General		
Number of channels		4 (4-In / 4-Out)
Peak total output (burst mode)		9000 Watt
Max. output voltage per channel (peak)		140 V
Max. output current per channel (peak)		60 A
Off-load power		40 Watt
<b>Max output power (Watt)</b>		
all channels driven	8 Ohm	4 x 1100
	4 Ohm	4 x 2000
bridged	2,7 Ohm *	2 x 2600 + 2 x 1800
	8 Ohm	2 x 4000
	5,4 Ohm	2 x 5000
<b>Audio performance</b>		
Frequency response (+/- 0,1 dB, 8 Ohm, 10 W)		10 Hz... 50 kHz
Frequency response without input filter		10 Hz... 100kHz
Dynamic (A)		112 dB
THD 400 Hz, 8Ohm, 800 Watt		< 0,0053 %
THD 1 kHz, 8 Ohm, 800 Watt		< 0,01 %
THD 10 kHz, 8 Ohm, 400 Watt		< 0,04 %
Slew rate		> 50 V/μS (without input filter)
Output impedance		< 3 mOhm
Damping factor 20 Hz...2 kHz, 8 Ohm, 500 W, incl. Speakon		> 2000
Channel separation 1 kHz, 8 Ohm		> 70 dB
Input impedance		15 kOhm
<b>Gain</b>		
Max. channel gain		29 dB / 36 dB (rear panel switches)
Level adjustment per channel		Front-panel potentiometer 40 position detented from -100dB to 0 db
<b>Peak limiter</b>		
Max. peak output selectable per channel		44V, 68V, 98V, Max 140V (rear panel switches)
Max. peak output selectable when bridged		88V, 136V, 192V, Max 280V (rear panel switches)
<b>Connectors (rear panel)</b>		
Input connectors		XLR
Output connectors		Neutrik Speakon
X-over outputs		6,3 mm jack
<b>Front panel display</b>		
Display per channel		VU-meter, Clip-Limiter, Status, Protect,
Audio processor		Mode, Status, X-Over, Bridge, X-Bass
General		High temperature (THERM), power supply overload (protect indicators of all chs. light up simultaneously)
<b>Cooling</b>		
Intelligent cooling		Temperature controlled speed of fans
Airflow		Front to rear, generally very low-noise fans
<b>Internal operation modes</b>		
		4 CHNL, 2 CHNL, 2 BASS, 2 TOP, 2 WAY, 2 BRDG, 1 BASS, 1 TOP
<b>Power</b>		
Operating voltage		230 V (170 V...270 V) 50...60 Hz
Switch-mode power supply (regulated)		Yes
Power factor corrector (PFC)		Yes
Soft start		Yes
<b>Dimensions</b>		
		W: 482 mm (19"), H: (1 U), Mounting D: 312 mm
<b>Weight</b>		
		6,5 kg.

\* In 2 way-mode 2 x 2600 W at 2,7 Ohm (three parallel 8 Ohm subwoofers) for the subs and 2 x 1800 W at 4 Ohm for the tops