

The KDX / KQX series is a range of premium quality, compact size, high power amplifiers designed for live performance use as well as for permanent installations. The KDX / KQX models are based on Class D output circuit controlled by a TeoTon technology modulator patented by KIND Audio. Thanks to the high efficiency (more than 85%) Class D output circuit, dramatically reduce power distribution demands compared to older high power amplifiers. Other great advantages of this technology are: low heat dissipation, compact size, and KIND sonic integrity.

A switchmode technology power supply replace a large heavy AC transformer with a highly efficient and light weight design.

Front accessible dust filter for easy and fast unit cleaning. Three input connectors type, as Neutrik Combo™ (XLR and 1/4" jack) and 3-pin detachable Europlug (Phoenix), offers professional, semi-pro and installations connection way.

KDX / KQX Series incorporates comprehensive warning and protection features to safeguard the amplifier and all connected loudspeaker drivers. Front-panel indicators give clear warnings when any potential problems are detected. Protection measures are enabled only when critical thresholds are passed or at start-up. Additionally, a soft-start circuit limits initial current draw when amplifier is turned on. The complete protection / warning suite includes: Short circuit, open circuit, thermal, RF protection, mains over / lower voltage, on/off muting, DC fault shutdown, clip limiter. Under normal use these features are inaudible and all protection methods are independent for each channel. The L.S.C. protection constantly monitors the current at the amplifier's output. When load's current exceed the amplifier's limit, the output voltage will be automatically re-adjusted to keep the amplifier in a security condition. An additional circuit, with automatic reset, shut down the amplifier's channel if a full short is made between a positive output and GND. The temperature management system sense the output devices temperature. In case of inadequate ventilation or overload, the hi-temp LED start to blinking and a level compensation process will be enabled. This protection safeguard the amplifier and prevent the definitive muting for overtemperature.

The KDX / KQX series have an open input architecture and can have as option a Digital Signal Processing board (KIND DSP board-I) and a remote control that allows monitoring of all key amplifier parameters: power on/off, channel mutes, and channel solo functions.



KDX / KQX Benefits

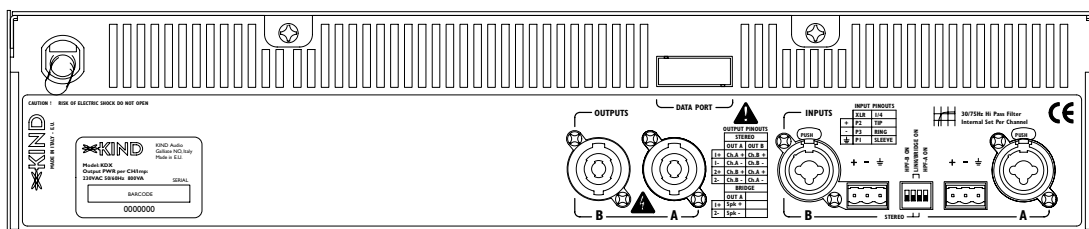
- Light Weight and power density: 8.5 kg - 2x1.9kW / 10kg - 4x700W in a 2U chassis
- Proven reliability
- Two and four channel versions
- Class D output circuit / TeoTon technology for high efficiency and sonic transparency
- All channels bridgeable
- Strong Reduction of kW/hr needed and power distributions demands
- Low Heat Dissipation
- Clip Limiters
- Two selectable input gains (26 dB, 32 dB)
- Selectable low-freq. Filters (30Hz or 75Hz)
- Tamper-proof optional DSP board
- Balanced Neutrik Combo™ (XLR, 1/4 TRS) and 3-pin Europlug (Phoenix)
- Neutrik Speakon™ Outputs
- Stepped Gain controls Knobs
- Continuously variable speed fans
- Front accessible dust filter
- Craftsmen built in Galliate, Italy
- 3 year Warranty

Specifications

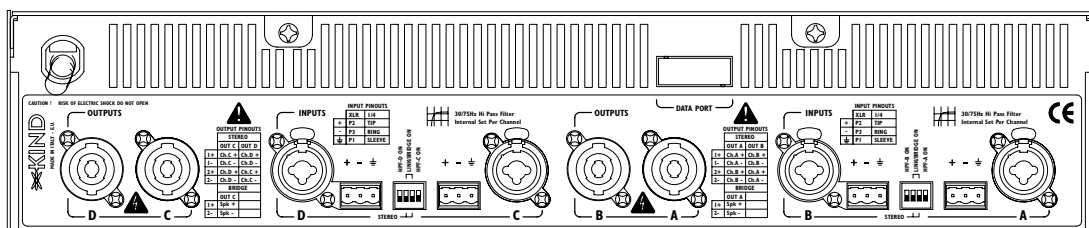
Model	KDX 9.2	KDX 14.2	KDX 18.2	KDX 24.2	KDX 30.2	KDX 34.2	KDX 38.2	KQX 16.4	KQX 22.4	KQX 28.4
Number of channels	2	2	2	2	2	2	2	4	4	4
Power Output Per Channel¹⁾										
16 ohms per ch. (all channels driven)	110 W	150 W	180 W	230 W	280 W	360 W	440 W	130 W	160 W	210 W
8 ohms per ch. (all channels driven)	200 W	280 W	350 W	450 W	550 W	700 W	850 W	250 W	300 W	400 W
4 ohms per ch. (all channels driven)	300 W	450 W	600 W	750 W	1000 W	1200 W	1500 W	400 W	550 W	700 W
2.7 ohms per ch. (all channels driven)								600 W	750 W	950 W
2 ohms per ch. (all channels driven)	450 W	700 W	900 W	1200 W	1500 W	1700 W	1900 W			
Power Output Bridged¹⁾										
16 ohms per ch.	400 W	560 W	700 W	900 W	1100 W	1400 W	1700 W	500 W	600 W	800 W
8 ohms per ch.	600 W	900 W	1200 W	1500 W	2000 W	2400 W	3000 W	800 W	1100 W	1400 W
4 ohms per ch.	900 W	1400 W	1800 W	2400 W	3000 W	3400 W	3800 W			
Performance With Gain										
THD+N 20 Hz - 20kHz for 1 W @ 4 ohms	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%
THD @ 1 kHz 1dB below clipping @ 4 ohms	<0.2%	<0.2%	<0.2%	<0.2%	<0.2%	<0.2%	<0.2%	<0.2%	<0.2%	<0.2%
Signal to Noise Ratio	>103 dBA	>103 dBA	>103 dBA	>103 dBA	>103 dBA	>103 dBA	>103 dBA	>103 dBA	>103 dBA	>103 dBA
Frequency Response (1 W @ 8 ohms) +0/-1 dB	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz
Damping Factor @ 8 ohms load, 10 Hz to 200 Hz	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200
Output Slew rate @ 8 ohms (input filter bypassed)	45V / μ S	45V / μ S	45V / μ S	45V / μ S	45V / μ S	45V / μ S	45V / μ S	45V / μ S	45V / μ S	45V / μ S
Input Impedance Balanced / Unbalanced	20k / 10kOhm	20k / 10kOhm	20k / 10kOhm	20k / 10kOhm	20k / 10kOhm	20k / 10kOhm	20k / 10kOhm	20k / 10kOhm	20k / 10kOhm	20k / 10kOhm
Input CMRR	>50 dB	>50 dB	>50 dB	>50 dB	>50 dB	>50 dB	>50 dB	>50 dB	>50 dB	>50 dB
Gain and Level										
Input Sensitivity @ 4 ohms (32 dB gain) +/- 3%	0.87V	1.07V	1.23V	1.37V	1.59V	1.74V	1.95V	1.0V	1.18V	1.33V
Input Gain Selectable (all channels, internal jumpers)	26, 32 dB	26, 32 dB	26, 32 dB	26, 32 dB	26, 32 dB	26, 32 dB	26, 32 dB	26, 32 dB	26, 32 dB	26, 32 dB
Default Gain	32 dB	32 dB	32 dB	32 dB	32 dB	32 dB	32 dB	32 dB	32 dB	32 dB
Level Adjustment (per channel)	Front panel potentiometer, 21 pos. stepped gain from -80 to 0 dB									
Front panel Indicators										
Common	Active on (normal status), Active off (mute); Hi temperature (blinking for power reduction and on for mute); Internal option board present									
Per channel	Signal output -35 dB, -20 dB, -10 dB; Clip / Limit; Protect									
Connectors and switches										
Input connectors (per channel)	Balanced: Neutrik Combo™ (XLR and 1/4" jack), XLR pin 2 and TRS tip positive, and 3-pin detachable Europlug (Phoenix)									
Output connectors (per channel)	Neutrik Speakon™ (bi-wiring connected)									
Output bridge mode per two channels	A+B - ch. A is signal input source; C+D - ch. C is signal input source.									
Rear panel 4 position DIP switches	Ch. A / B (C / D) High Pass Filter 30/75 Hz on; Ch.'s A+B (C+D) link/Bridge on									
Power (on/off)	switch on front panel									
Output Circuitry										
Power Supply	Class D / TeoTon™ technology									
Cooling	High efficiency Switch Mode Power Supply									
Amplifier and Load Protection	Two fans, front to rear air flow, temperature controlled speed; front panel removable dust filter									
Power										
Operating voltage (selectable inside the unit)	Nominal 115V AC (92-132V AC) - 50/60 Hz, min. power up voltage 85V; or nominal 230V AC (184-264V AC) - 50/60 Hz, min. power up voltage 170V									
Current draw @ 230V AC 1/8 power 4 ohms	1.0 A	1.3 A	1.5 A	1.8 A	2.2 A	2.5 A	3.0 A	1.8 A	2.4 A	2.9 A
Current draw @ 230V AC 1/3 power 4 ohms	1.6 A	2.2 A	2.7 A	3.3 A	4.2 A	5.0 A	6.1 A	3.5 A	4.6 A	5.7 A
Current draw @ 230V AC, idle	0.5 A	0.5 A	0.5 A	0.5 A	0.5 A	0.5 A	0.5 A	0.5 A	0.5 A	0.5 A
Soft start / Inrush current draw @230V AC	Yes / max. 2 A									
AC cordset	230V CE: 16 A, CEE7; 115V ETL: 15 A, NEMA-15									
Options										
	Digital Signal Processing board (KIND DSP board-I), handles									
Dimensions (W/H/D)										
Weight - Net / Shipping	W: 483 mm (19"), H: 88.9 mm (3.5" - 2 RU), Overall with optional handles D: 426 mm (16.77"), From front mounting rails D: 391 mm (15.4") 8.5 kg (18.7 lbs.) / 11.5 kg (25.3 lbs) 10 kg (22 lbs.) / 13 kg (28.6 lbs)									
Approvals										
	CE EN55103-1 (Emissions), EN55103-2 (Immunity), EN60065, Class I (Safety)									

Note 1) EIA 1kHz - 1% THD @ 230V AC

All specifications are subject to change without notice.



KDX Model



KQX Model



KIND is a trademark of A&AG S.r.l.

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