

The NWX series are light weight amplifiers, ideal for use in high quality touring sound systems as well as in permanent installations. The NWX models are based on class H circuitry, for power efficiency and high quality sound performance.

NWX models has been designed with the objective to reduce weight and improve sonic transparency, noise and versatility, further to incorporate the ultimate protection systems. An high efficiency Switch Mode Power Supply has been used as modern solution for the weight reduction. KIND SMPS has been designed to be integrated into our amplifier design. In contrast to other designs, we have managed to produce a SMPS that has the same characteristics as a conventional supply eliminating the need of limiting on the secondary side of the switch transformer, to guarantee the maximum current pulse under requiry, the audible results are a deep and fast bass and crisp, clean sound.

Every channel has input connectors type XLR/M and XLR/F for simple loop-through connectivity.

The NWX 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. The protections are inaudible under normal use and all protection circuitry are independent for each channel. The L.S.C.<sup>™</sup> Load Security Control 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. The L.S.C.<sup>™</sup> will have a strong interference douring amplifier's operation when the connected load is lower than 1 Ohm or the amplifier's output is shorted. Indicators will light to inform the user about the warning. The temperature management system constantly monitors the heatsink temperature. If the heatsink reaches an abnormal temperature for inadequate ventilation the input signal will decrease automatically until a temperature balance is reached (level compensation). This system safeguard the amplifier and prevent the definitive load disconnection for overtemperature. Indicators will light to inform the user about the status. To protect the connected loudspeakers from DC, a DC detection system monitors independently both output channels.

The NWX series have an open input architecture and can have as option a processing board and a remote control that allows monitoring of all key amplifier parameters: power on/off, channel mutes, and channel solo functions.

The NWX series, with his aluminium front panel, have a professional look and a very strong chassis; KIND design and construction has been tested and refined over many years. The circuit board design is modular, because this type of construction greatly improves future technical assistance.



### NWX Benefits

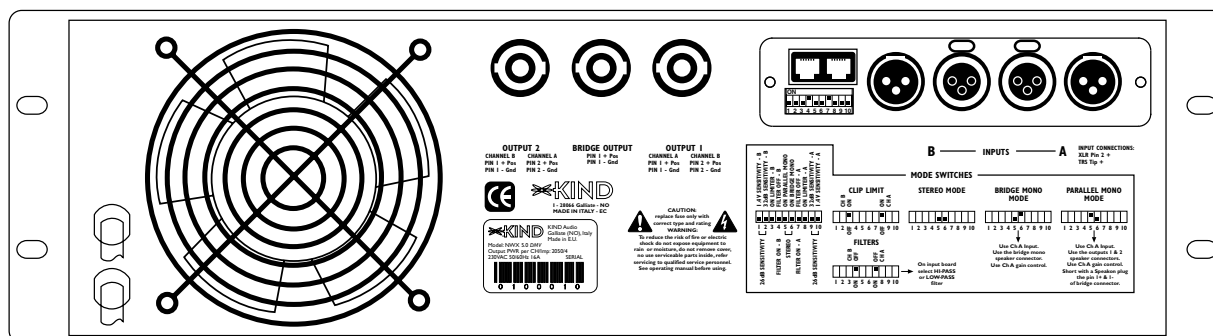
- Light Weight 16 kg - 2x3.3kW in a 3U chassis
- Proven reliability
- High efficiency Switching Mode Power Supply
- A.P.I.<sup>™</sup> Module for integration of signal processing board
- A.P.I.<sup>™</sup> To setup any input filter or gain
- A.P.I.<sup>™</sup> Module for WinARC<sup>™</sup> integration (Amplifier Remote Control)
- Switchable/defeatable Clip Limiters
- Three selectable input gains (26 dB, 32 dB or 1.4V)
- Balanced XLR/M and XLR/F connectors for simple loop-through connectivity
- Neutrik Speakon<sup>™</sup> Outputs
- Stepped Gain controls Knobs
- Continuously variable speed fan
- Craftsmen built in Galliate, Italy
- 3 year Warranty

# Specifications

Model	NWX 1.9	NWX 2.8	NWX 3.4	NWX 5.0 DMV
Number of channels	2	2	2	2
<b>Power Output Per Channel<sup>1)</sup></b>				
16 ohms per ch. (all channels driven)	240 W	350 W	450 W	670 W
8 ohms per ch. (all channels driven)	450 W	660 W	840 W	1280 W
4 ohms per ch. (all channels driven)	800 W	1170 W	1440 W	2290 W
2 ohms per ch. (all channels driven)	1150 W	1700 W	2050 W	3350 W
<b>Power Output Bridged<sup>1)</sup></b>				
16 ohms per ch.	900 W	1320 W	1680 W	2560 W
8 ohms per ch.	1600 W	2340 W	2880 W	4580 W
4 ohms per ch.	2300 W	3400 W	4100 W	6700 W
<b>Performance With Gain</b>				
THD+N 20 Hz - 20kHz for 1 W @ 4 ohms	32 dB	32 dB	32 dB	32 dB
THD @ 1 kHz 1 dB below clipping @ 4 ohms	<0.02%	<0.02%	<0.02%	<0.02%
Signal to Noise Ratio	<0.05%	<0.05%	<0.05%	<0.05%
Frequency Response (1 W @ 8 ohms) +0/-1dB	>105 dB	>105 dB	>105 dB	>105 dB
Damping Factor @ 8 ohms load, 10 Hz to 200 Hz	10Hz - 30kHz	10Hz - 30kHz	10Hz - 30kHz	10Hz - 30kHz
Output Slew rate @ 8 ohms (input filter bypassed)	>400	>400	>400	>400
Input Impedance Balanced / Unbalanced	25V / $\mu$ S	25V / $\mu$ S	25V / $\mu$ S	25V / $\mu$ S
Input CMRR	20k / 10kOhm	20k / 10kOhm	20k / 10kOhm	20k / 10kOhm
	>55 dB	>55 dB	>55 dB	>55 dB
<b>Gain and Level</b>				
Input Sensitivity @ 4 ohms +/- 3 %	32 dB	32 dB	32 dB	32 dB
Input Gain Selectable (all channels)	1.4 V	1.4 V	1.4 V	1.4 V
Default Gain	26, 32 dB	26, 32 dB	26, 32 dB	26, 32 dB
Level Adjustment (per channel)	32 dB	32 dB	32 dB	32 dB
	Front panel potentiometer, 41 pos. stepped gain from -inf to 0 dB			
<b>Front panel Indicators</b>				
Per channel	Active on (unit power on); Active on with half light (initial start-up); Hi temperature (on, step 1 power reduction, persistent condition step 2 muting); Signal output -30 dB; Clip / Limit; Protect or LSC (when loads are lower than 1.3 ohm or output is in short circuit).			
<b>Connectors and switches</b>				
Input connectors (per channel)	Balanced: XLR/M and XLR/F (loop-through connectivity); XLR pin 2 positive			
Output connectors (per channel)	Neutrik Speakon™ (bi-wiring connected)			
Output bridge mode	A+B - ch.A is signal input source and pot. A is level control			
Rear panel 10 position DIP switches	Ch. A / B Sensitivity, Gain, Clip Limiter on, Filter on; Ch.'s A+B Stereo, Bridge-mono, Parallel-mono			
Power (on/off)	switch on front panel			
<b>Output Circuitry / Design Topology</b>				
Power Supply	Class H / dual mono for NWX 5.0 DMV			
Cooling	High efficiency Switch Mode Power Supply			
	Fan, rear to front air flow, temperature controlled speed			
<b>Amplifier and Load Protection</b>				
	Short circuit, open circuit, thermal, RF protection, mains over / lower voltage. On/off muting, DC fault shutdown, clip limiter			
<b>Power</b>				
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 170 V			
Current draw @ 230 V AC 1/8 power 4 ohms	2.1 A	2.9 A	3.5 A	5.5 A
Current draw @ 230 V AC 1/3 power 4 ohms	4.2 A	6.0 A	7.3 A	11.6 A
Current draw @ 230 V AC, idle	0.3 A	0.3 A	0.3 A	0.5 A
Soft start / Inrush current draw @230V AC	Yes / max. 3.5 A			
AC cordset	230V CE: 16 A, CEE7; 115V ETL: 15 A, NEMA-15			
<b>Options</b>				
	WinArc™ (remote control)			
<b>Dimensions (W/H/D)</b>				
	W: 483 mm (19"), H: 133 mm (5.25" - 3 RU), Overall with handles D: 497 mm (19.57"), From front mounting rails D: 455 mm (17.91")			
<b>Weight - Net / Shipping</b>				
	13 kg (28.6 lbs.) / 16 kg (35.2 lbs) 16 kg (35.2 lbs.) / 19 kg (41.8 lbs)			
<b>Approvals</b>				
	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.



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Item no. TDS-NWX-V01-06/03/08

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