

DTD

Digital TD Controller

Data Sheet

NEXO



DIGITAL DTD-T
TD CONTROLLER

DIGITAL DTD-I
TD CONTROLLER

Digital TD Controller for NEXO PS Series and LS Subs.

The new generation of NEXO Digital TD Controllers offers the same sound quality and processing algorithm as the high end NXAMP range at a very competitive price.

DTD main features

- Speaker controller for PS and LS series, providing digital processing from the NXAMP technology (Crossover, EQ, time alignment and speaker protections).
- High-end Balanced Stereo Analog inputs, AES input, USB input and optionally Dante™.
- High-end Balanced Analog outputs for PS (Stereo) and LS (mono sum).
- Automatic Amplifier Sensing with no setting required from user.
- Simple control from the front panel (Sub Gain, Main Gain, Crossover mode) or advanced control using USB port.

The DTD is a unique tool, combining advanced signal processing, inherited from the NXAMP, with an unmatched ease of use.

Flexible Inputs system

The DTD offers efficient speaker processing with unmatched input flexibility: On top of the high-end Stereo balanced inputs, an AES input and a USB input (driverless USB audio playback from many OS) will allow the DTD to be connected quickly in any situation. Dante™ input is also available as an option (see ordering information).

State-of-the-Art signal processing

Despite its ease of use, the DTD delivers state-of-the-art audio processing, offering high precision EQ and Linear Acoustic Phase algorithm, phase-compatible with other Nexo speakers, inherited from the NXAMP range of powered TDcontrollers.

The DTD uses high-end AD and DA converters, 64 bits DSPs, and finally an analog IN to analog OUT dynamic range of more than 112 dB, while distortion is kept under 0.001%.

Installation and Touring versions

The Digital TDcontroller range is composed of two models, both housed in a rugged low depth steel 19" case and featuring a universal power supply.

The **DTD-T** is the Touring version, with its analog input and output connectors (XLR and Speakons) on the front panel, thus saving the cost of and room for an extra patch panel unit. The front panel display shows the current PS/LS setup, two hardware knobs for Sub/Main output gain, and a switch for selecting Wideband, Crossover or User (i.e. custom) mode.

The **DTD-I** is the Installation version, with all connectors (except mini-USB) at the back on the barrier strip. There is no hardware control; everything is set up from a PC/Mac computer connected on the USB port, allowing the settings to be locked and thus preventing any accidental changes.

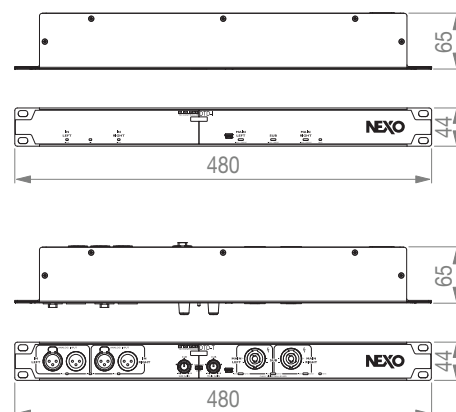
User Mode

While front panel switch and knobs allow basic setup of the DTD-T without the need for a computer, the User Mode that can be set up through the USB port offers more possibilities:

- Speaker and Sub model selection.
- Crossover Frequency selection.
- Delay on mains and sub outputs.
- Gain control for each output.
- Input/Output meters, including protections.
- User EQ (2x 8 bands parametric EQ)
- User limiters.
- Settings lock with password.

Updatable firmware

The USB port allows the user to update the unit firmware, to add new functions or to download new NEXO speaker presets.



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DIGITAL DTD TD CONTROLLER

NEXO is one of the world's leading sound reinforcement loudspeaker manufacturers. Founded in 1979, the company is dedicated to crafting practical solutions with solid engineering. Each new design begins with a proprietary sophisticated computer simulation process that allows every parameter to be extensively modeled and simulated, leading to breakthrough cost and performance gains. NEXO's comprehensive product line includes loudspeakers, analogue and digital control electronics and amplification; all designed to deliver consistent sound quality and long term reliability for a broad range of applications.

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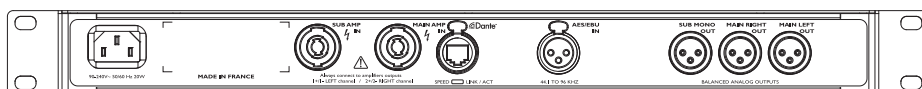
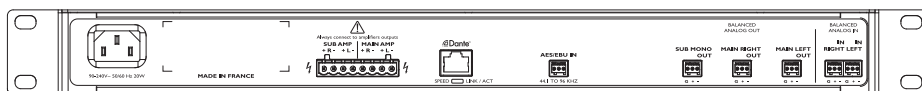
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	DTD-T-U	DTD-T-N	DTD-I-U	DTD-I-N
ELECTRICAL SPECIFICATIONS				
Sampling frequency and resolution	48/96 KHz, 64 bits internal processing precision			
Signal delay	Less than 1 ms (analog in to out) on flat setup, compatible with NXAMP latency			
Frequency response	20 Hz to 20 KHz, +/-0.5 dB (mains out)		20 Hz to 2 KHz +/-0.5 dB (sub out)	
Total harmonic distortion	Less than 0.001% (mains out)		less than 0.02% (sub out)	
Dynamic range	112 dB (unweighted, mains out)		107 dB (unweighted, sub out)	
Crosstalk / Channel separation	-100 dB (1KHz)			
Indicators	Input signal/peak (green/red), amp in signal (green), speaker protect (yellow)			
Display	White backlight graphical OLED display 96 x 16 pixels			
Switch and rotary knobs	3 position switch + 2 x rotary knobs			
ANALOG INPUTS CHARACTERISTICS				
Number of channels	2 electronically balanced analog inputs			
Connectors	2 x XLR-F with link on XLR-M		2 x terminal block (3-pin / 2.54 mm pitch)	
Sampling frequency and resolution	96 KHz / 24 bits			
Max. input level / Input impedance	+22 dBu / 20 KOhms			
ANALOG OUTPUTS CHARACTERISTICS				
Number of channels	3 electronically balanced analog outputs			
Connectors	3 x XLR-M		3 x terminal block (3-pin / 2.54 mm pitch)	
Sampling frequency and resolution	48/96 KHz, 24 bits			
Max. output level / Output impedance	+ 22 dBu / 200 Ohms			
AMPLIFIER SENSING INPUTS				
Number of channels	4 floating electronically balanced high voltage analog inputs			
Connectors	2 x 4 pole SP connectors		1 x terminal block (8-pin / 5.08 mm pitch)	
Sampling frequency and resolution	48/96 KHz, 24 bits			
Max. input level / Input impedance	+50 dBu (8000 Watts / 8 Ohms) / 364 KOhms			
AES INPUTS CHARACTERISTICS				
Number of channels	1 AES/EBU stereo digital input			
Connectors	1 x XLR-F		1 x terminal block (3-pin / 2.54 mm pitch)	
Sampling frequency and resolution	44.1 to 96 KHz / 16, 20 or 24 bits			
DANTE™ INPUT CHARACTERISTICS				
Number of channels		2 x Dante™ channels		2 x Dante™ channels
Connector		1 x ruggedized RJ45		1 x RJ45
Sampling frequency and resolution		48-96 KHz / 24 bits		48-96 KHz / 24 bits
USB INPUT CHARACTERISTICS				
Type	2 channels of USB audio			
Connector	Female mini USB connector type B			
Sampling frequency and resolution	48 KHz / 16 bits			
REMOTE CONTROL				
Connector	Mini USB	Mini USB + RJ45	Mini USB	Mini USB + RJ45
PHYSICAL SPECIFICATIONS				
Dimensions (W x H x D)	480 (W) x 44 (H) x 65 (D) mm, 1U			
Weight	1.3 Kg			
Power supply voltage	90 V - 240 V 50/60 Hz			
Power consumption	20 W max.			
Heat dissipation (per hour)	20 Kcal max.			
Operating temperature range	0°C - 40 °C			
Storage temperature range	-20 °C - 60 °C			
Included items	Owners's manual		Owners's manual + terminals plugs	
ORDERING INFORMATION				
Ordering code	DTD-TU	DTD-TN	DTD-IU	DTD-IN



LIMITED WARRANTY

NEXO loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the option of NEXO the defective item will be repaired/replaced with no charge for materials/labour. The item is to be adequately packaged and dispatched, pre-paid, to a NEXO authorised distributor/service centre. Unauthorised repair shall void the warranty. The NEXO warranty does not cover cosmetics or finish and does not apply to any items which in NEXO's opinion have failed due to used abuse, accidents, modifications or any type of misuse. All images and text herein are the property of NEXO SA, and deemed accurate, although specifications are subject to change without notice.