

DIGITAL TD CONTROLLER **DTD**



## Digital TD Controller for NEXO PS Series Cabinets and LS Subs

[www.nexo.fr](http://www.nexo.fr)

**NEXO**

## DIGITAL TD CONTROLLER DTD

# More performance in more applications

Compatible with amplifiers from other manufacturers, the DTD Digital TD Controller for PS Series cabinets and LS Subs makes the world's favourite compact, high-output system even more accessible.

Now it's possible to choose exactly the right size and scale of amplification, making PS/LS configurations accessible in a wide range of applications from small mobile systems to more sophisticated multi-cabinet installations. With advanced speaker control processing taken from the NEXO NXAMP, the DTD Digital TD Controller also delivers dramatic improvements in sonic performance over previous analog TD Controllers.

### Key Features

- Compatible with amplifiers of every size and scale
- Can be used with amplifiers from other manufacturers
- Dramatic sonic improvements over previous analog devices
- Comprehensive analog and digital connectivity plus Dante™
- Plug-and-play operation with automatic amplifier sensing
- Touring and install versions available

PS



## DTD-T touring version



The DTD-T touring version features analog input and output connectors on the front panel, removing the need for an additional patch panel

## DTD-I install version



With all connectors except mini-USB located on the back panel, the DTD-I install version is set up from a Mac/PC computer

The DTD delivers advanced speaker control processing taken from the NEXO NXAMP in a compact, rack-mounting device. Providing sophisticated control over crossover, EQ and time-alignment along with speaker protection, the DTD is very easy to use, with automatic amplifier sensing and simple Sub Gain, Main Gain and Crossover Mode control available directly from the front panel (DTD-T touring version).

### Flexible inputs

The DTD combines efficient speaker processing with a flexible range of inputs including stereo balanced analog inputs, an AES input and a USB port enabling direct driverless audio playback from laptops, etc. An optional Dante™ input is also available.

### Advanced signal processing

DTD uses state-of-the-art audio processing to deliver high-precision EQ and Linear Acoustic Phase algorithms, phase-compatible with all PS and LS cabinets, along with other speakers in the NEXO range.

High-end AD and DA converters and 64-bit/96kHz processing ensure an analog in-to-analog-out dynamic range greater than 112dB, with distortion kept to under 0.001%.

### Touring and Install versions

Both Touring (DTD-T) and Install (DTD-I) versions are housed in a rugged, low-depth rack-mounting case and feature a universal power supply.

The touring version has analog input and output connectors (XLR and Speakons) on the front panel, removing the cost need for an additional patch panel. The front panel display shows the current PS/LS set up, and features controls for Sub/Main output gain and a switch to select Wideband, Crossover or User mode. Set up from a Mac/PC connected via USB, User Mode offers additional control over Speaker/Sub model selection, Crossover Frequency selection, Delay on Main and Sub outputs, Gain for each output, Input/Output Meters including protections, User EQ (2 x 8 bands parametric), Limiters and Settings Lock with Password.

The install version has all the connectors except mini-USB located on the back panel. There is no hardware control on the unit; all parameters are set in User Mode from a Mac/PC connected via USB, allowing settings to be locked to prevent accidental changes.

### Easily accessible firmware updates

The USB port can also be used to update firmware, add new functions or download new NEXO speaker presets.

# Specifications

	DTD-T-U	DTD-T-N	DTD-I-U	DTD-I-N
<b>ELECTRICAL SPECIFICATIONS</b>				
Sampling frequency and resolution	96kHz, 64-bit 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 20 kHz, +/-0.5 dB (sub out)			
Total harmonic distortion	Less than 0.003% (mains out), less than 0.02% (sub out)			
Dynamic range	112 dB (unweighted, mains out), 107 dB (unweighted, sub out)			
Crossover/channel separation	-100 dB (1kHz)			
Indicators	Analog in signal/peak (green/red), sense in signal (yellow), speaker protect (yellow)			
Display	White backlight graphical OLED display 96 x 16 pixels			
Switch and rotary knobs	3 position switch + 2 x rotary knobs			
<b>ANALOG INPUT CHARACTERISTICS</b>				
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-bit			
Max. input level/Input impedance	+22 dBU/20 kOhms			
<b>ANALOG OUPUT CHARACTERISTICS</b>				
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	96 kHz/24-bit			
Max. output level/Ouput impedance	+22 dBU/200 Ohms			
<b>AMPLIFIER SENSING CHARACTERISTICS</b>				
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	96 kHz/24 bit			
Max. input level/Input impedance	+50 dBU (8000 Watts/8 Ohms) / 364 kOhms			
<b>AES INPUT CHARACTERISTICS</b>				
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 96kHz/16, 20 or 24-bit			
<b>DANTE™ INPUT CHARACTERISTICS</b>				
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-bit		48-96 Hz/24-bit
<b>USB INPUT CHARACTERISTICS</b>				
Type	2 channels of USB audio			
Connector	Female mini USB connector type B			
Sampling frequency and resolution	48kHz/16-bit			
<b>REMOTE CONTROL</b>				
Connector	Mini USB	Mini USB + RJ45	Mini USB	Mini USB + RJ45
<b>PHYSICAL SPECIFICATIONS</b>				
Dimensions (W x H x D)	480 mm x 44 mm x 65 mm, 1U			
Weight	1.3Kg			
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' manual		Owners' manual + terminals plugs	

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