

Dory v2.01 whats new?

Creation date: 2/21/2010 4:34:00 PM

Last revision 05/04/2016 4:27 PM

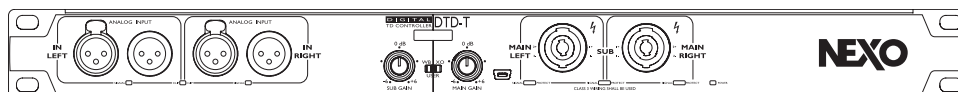
Author: JCARCOPINO

Dory Description

Dory is a remote control software intended to be used with NEXO device that have a USB control port. At the time of writing, the Digital TDcontroller (DTD) is the only NEXO device that is compatible with Dory.

Dory & DTD functionalities

Although the DTD can be used without any external remote control software, it is needed to connect at least one time the DTD to a computer running Dory to select the proper speaker setup.



The DTD has a front panel mini-USB port for computer connection.

Speaker and sub selection

The following speaker's setups are available into Dory v2.01:

Flat Speaker Preset

- No EQ and No protection flat preset

ID Serie ("Main" mode for front of house application)

- ID24 90x40 with 95, 120, 150 Hz crossover
- ID24 120x40 with 95, 120, 150 Hz crossover
- ID24 60x60 with 95, 120, 150 Hz crossover
- ID24 120x60 with 95, 120, 150 Hz crossover

ID Serie ("Front" mode for front fill application)

- ID24 90x40 with 95, 120, 150 Hz crossover
- ID24 120x40 with 95, 120, 150 Hz crossover
- ID24 60x60 with 95, 120, 150 Hz crossover
- ID24 120x60 with 95, 120, 150 Hz crossover

ID Serie ("Monitor" mode for monitor application)

- ID24 90x40 with 95, 120, 150 Hz crossover
- ID24 120x40 with 95, 120, 150 Hz crossover
- ID24 60x60 with 95, 120, 150 Hz crossover
- ID24 120x60 with 95, 120, 150 Hz crossover

ID Serie ("Lounge" mode for lounge application)

- ID24 90x40 with 95, 120, 150 Hz crossover
- ID24 120x40 with 95, 120, 150 Hz crossover
- ID24 60x60 with 95, 120, 150 Hz crossover
- ID24 120x60 with 95, 120, 150 Hz crossover

PS Serie

- PS8 with 70, 85, 120 Hz crossover
- PS10R2 with 70, 85, 120 Hz crossover
- PS15R2 with 50, 85, 120 Hz crossover
- PS10 (1st gen) with 70, 85, 120 Hz crossover
- PS15 (1st gen, passive mode) with 50, 85, 120 Hz crossover

GeoM6 Serie

- GeoM6 (x1 Stand-alone) with 70, 85, 120 Hz crossover
- GeoM6 (x2~x3 cluster) with 70, 85, 120 Hz crossover

GeoM10 Serie

- GeoM10 (x1 Stand-alone) with 63, 75, 85, 95, 120 Hz crossover
- GeoM10 (x2~x3 cluster) with 63, 75, 85, 95, 120 Hz crossover
- GeoM10 (Stack Monitor) with 63, 75, 85 Hz crossover

The following sub or bass cabinet setups are available into Dory v2.01:

Generic Sub

- Generic sub preset with 40-85 Hz crossover, no protection

IDS Serie

- IDS110 with 40-85 / 40-120 Hz crossover

LS Serie

- LS400 with 40-85 / 40-120 / 60-120 Hz crossover
- LS600 with 40-85 / 40-120 / 60-120 Hz crossover
- LS18 with 35-85 / 35-120 Hz crossover

- LS500 with 35 – 85 / 35-120 Hz crossover
- LS1200 with 35-85 / 35-120 Hz crossover

GeoM6 Serie

- GeoM6B (x1 Stand-alone) with 70 – 180 / 85-180 Hz crossover

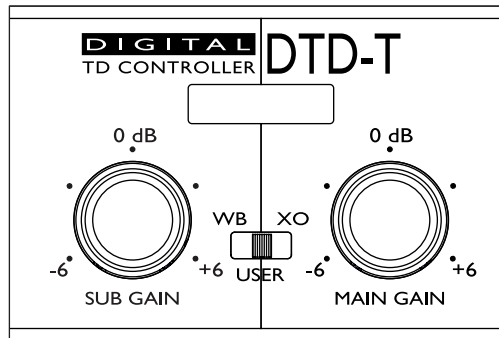
MSUB15 Serie

- MSUB15 Omnidirectional setup with 40 – 63/ 40 – 75/ 40 – 85/ 40 – 95/ 40 – 120 Hz crossover.

Once the setup has been downloaded into the DTD, you can use the DTD in hardware mode (meaning without any computer): To do so, set up the front panel switch on the "WB" or "XO" position.

DTD in hardware or software mode

Locate the front panel switch to change the hardware mode.



- **When the switch is on the WB (Wideband) position:**
 - The Main cabinet has the largest bandwidth.
 - The Sub cabinet has its default crossover value.

In this situation there is an overlap between main and sub, offering more energy in the low frequency, but limiting the maximum SPL out of the main speaker.

- **When the switch is on the XO (Crossover) position:**
 - The Main cabinet has the default crossover value.
 - The Sub cabinet has its default crossover position.

In this situation there is no overlap and maximum SPL can be output from the main speaker.

For both position above, all settings other than crossover point inside the DTD are set to the default value. Still the Sub and Main gain can be adjusted through the front panel knobs.

- **When the switch is on the USER position:**

In this situation all parameters inside the DTD can be adjusted (input patch, gain, delay, user EQ, user compressor ...). **Gain can be adjusted through both front panel knobs and software.**

Dory Installation

Dory has been developed as multiplatform software, being able to run on PC computers, MAC computers, Linux computers and Android devices.

From version 1.12, Dory will notify if a new version is available (this requires an internet connection).

Window Version

Please download the installer from the Nexa website.

Double click on the installation file *DorySetup_x86_2.01.exe* to install it on a computer running on Windows 7, 8 or 10.

Once the installation is finished without any error message, Dory is ready to use.

Mac Version

Please download the installer from the Nexa website.

Double click on the installation file *Dory_2.01.dmg* to install Dory on a computer running on Mac OS X 10.6 (Snow Leopard) or higher.

Once the installation is finished without any error message, Dory is ready to use.

Android version

Go to Google Play Store and look for "Dory". Accept authorization requirements and download the app.

Dory requires an Android device with OTG support. Check online if your device is OTG-ready.

Connecting the DTD to Dory

Please follow the steps below to connect.

- Connect the DTD Mains plug to power ON the unit.
- Connect the mini-USB to USB cable provided with the DTD to one of the computer free USB port.
- On Android:
 - Connect your device to the DTD using an OTG cable, and accept the authorization request to access the DTD.

After first launch, Dory is automatically launched as you connect to a DTD

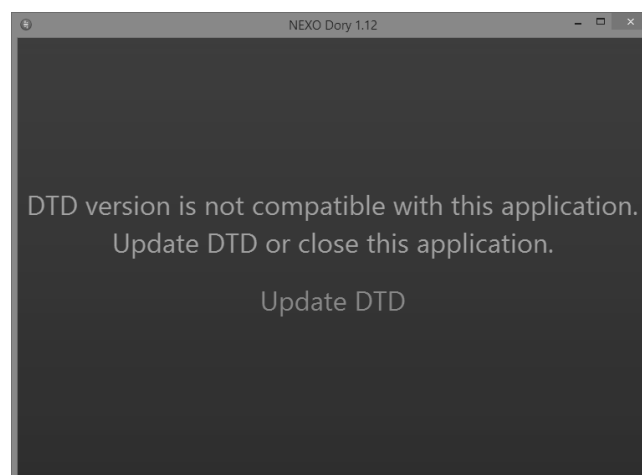
- On OS X:
 - Launch Dory through the short cut in Application's folder
- On Windows:
 - Wait while necessary drivers are installed. The DTD uses only pre-installed Windows driver and does not need any specific download.

Once Windows claims that the hardware has been successfully installed, you can launch Dory through the shortcut in the start menu or through the search bar.

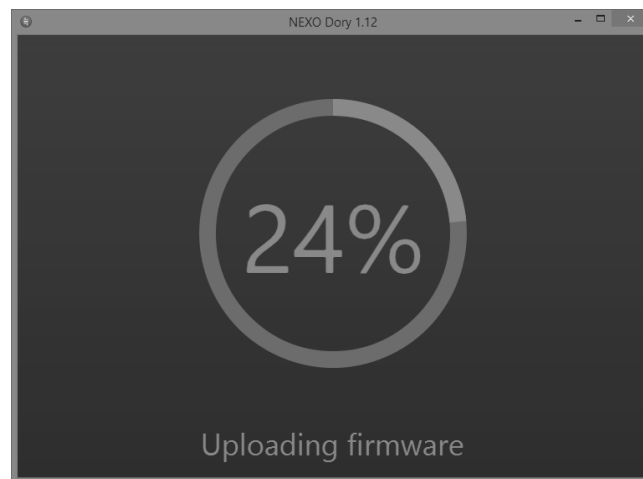
Using Dory

Upgrading the DTD firmware

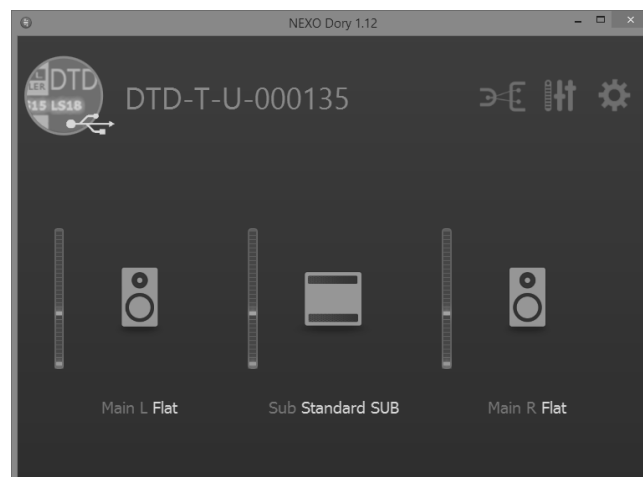
When Dory detects a DTD on a USB port of the computer, it will first check the firmware revision of the device. If the firmware inside the DTD is different from the one embedded into Dory, it will show the following message:



If you press Update DTD, then the unit will reboot and Dory will start to upload the new firmware into the device.



Once the firmware has been uploaded, Dory will show the main view, with current speaker's setup. If a setup was already selected, it will be recharged after firmware update. If no speaker's setup was defined, the unit will display the "Flat" speaker mode by default, with default speaker's icons.



Changing the speaker setups

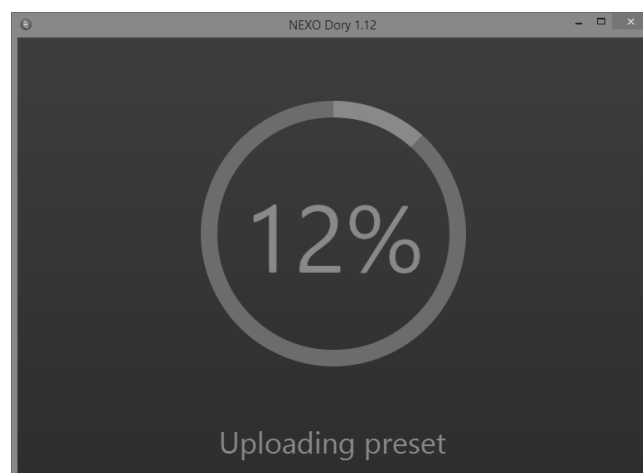
Speaker setups can be changed separately for main and sub, meaning that any combination of Main Speaker (stereo) and Sub speaker (Mono) is available. However, it is not possible to process to different speakers for main left and main right.

In this release the default FLAT setup can only be used with the default SUB setup.

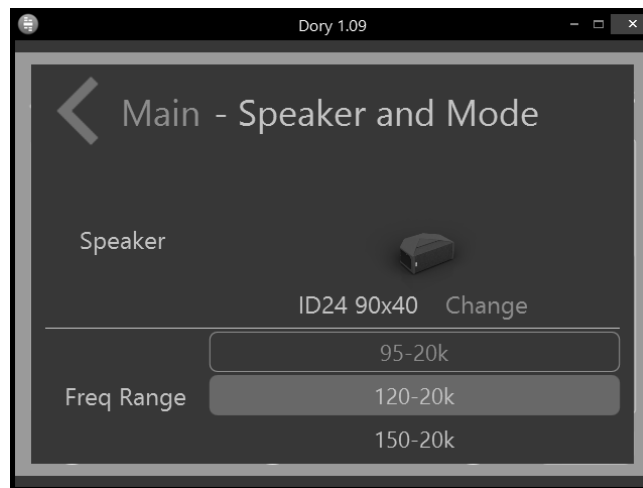
Press on a speaker icon to enter in the speaker preset screen, then select "Change".



Drag the center speaker to the left or to the right to access the other presets, and click OK once your choice has been done. Dory will then upload the speaker preset into the DTD internal memory.



You can then select among the available crossovers (check that the front panel's switch is on the "USER" position, else this feature will be read-only).



Now that the speaker setup has been recalled, you can close the software and use DTD as a standalone device in hardware mode, or continue in software mode and adjust the device settings.

Changing the DTD parameters

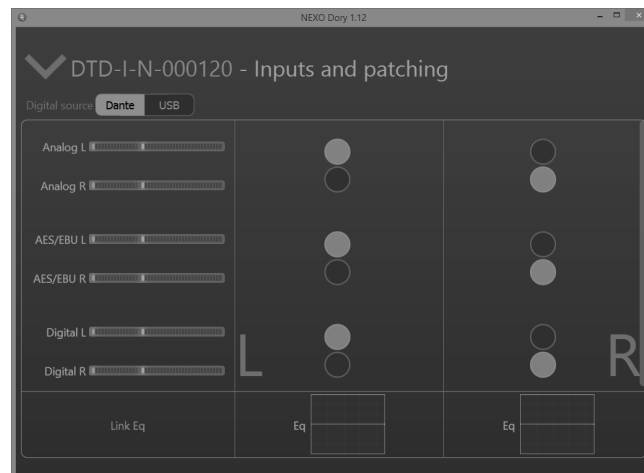
Default page

On the default view of Dory you can check view-meters for output level and selected speaker. Three other pages can be accessed from here by clicking the logo next to the DTD name on the upper part of the screen, as surrounded below.



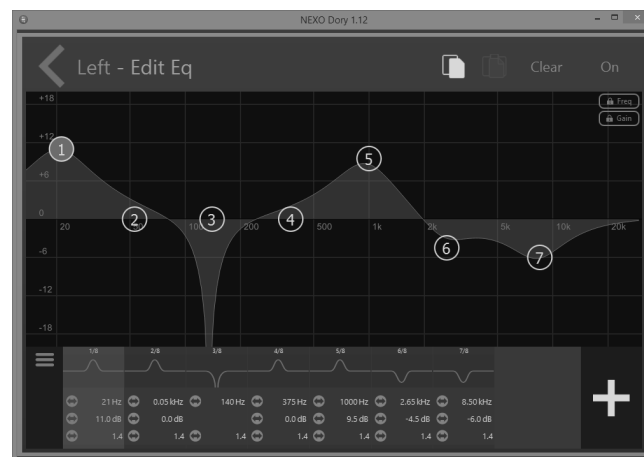
Inputs and patching page

The first shortcut will lead you to the input settings.



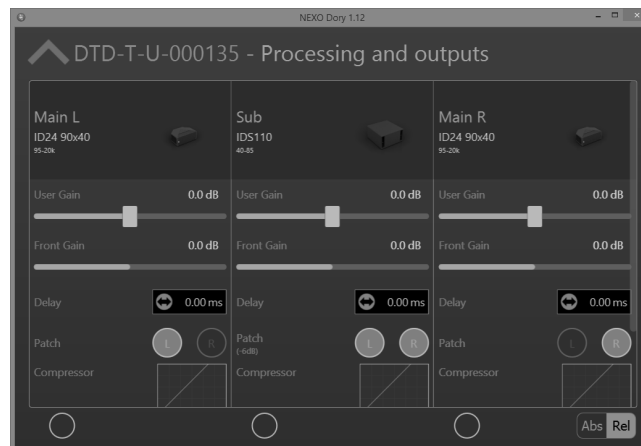
From this page you can adjust:

- **Input meters** for all inputs (Digital L/R stands for USB audio input as the DTD is also detected by Windows as a USB soundcard).
- **Input patch** from the physical input to the internal Left and Right processing channels.
- **User EQ** (Stereo 8-band full-parametric EQ). It is possible to edit both channels using "Link Eq"
- **Digital switch (only for Dante versions)** to choose digital source

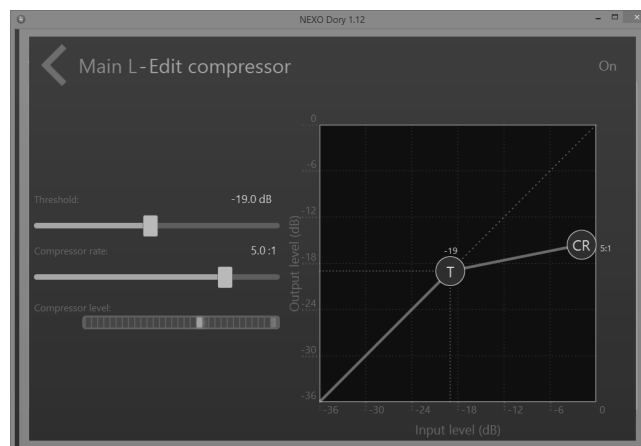


Processing and output page

The second shortcut will jump to this page where you can adjust the three output settings.



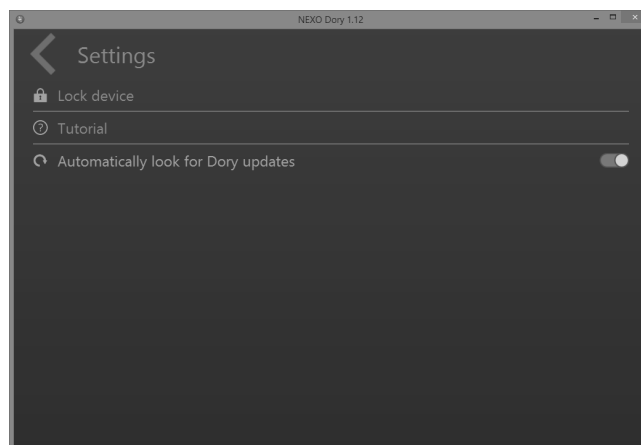
- Speaker type and crossover adjustment
- Gain between -18 dB and + 18 dB
- Read back of the front panel knobs (for DTD-T models)
- User delay in milliseconds, meters or feet (click on the unit to change it)
- Processing channels to output patch (L / R or (L+R) to each output. Note that when L+R is selected, -6 dB of gain is applied automatically internally.
- User compressor. This compressor can be setup by the user to limit the output level on top of Nexo's internal protections (to limit the speaker output level to a certain SPL for example).



For gain and delay and user compressor, the round buttons selectable on the bottom of the screen allow adjusting parameters on multiple channels at the same time. Use the Absolute or Relative switch next to it depending of your needs.

Settings page

The third shortcut will lead you to the settings page.



- Using lock device, it is possible to lock the unit with a pin code. This code will be asked before editing any setting on the unit.
- Tutorial shows a detailed tour of the software's features
- Automatically look for software updates enables to be notified as a new Dory's version is released

Feedback on Dory

We will be happy to have your feedback about this release by sending an email to technical@nexo.fr with the field [Dory] in the mail subject.

Revision history

Dory v2.01

Optimized speaker processing to match NXAMP processing.

Optimized Amplifier Sensing control, to detect and avoid sense cabling issues.

Optimized compatibility between NXAMP and DTD when using Analog or AES inputs (in terms of Gain and delay),

Requirement: If delay compatibility is needed, 0.14 meters delay has to be added on NXAMP manually.

Fast speaker loading from Dory (compared to Dory 1.12).

New compressor threshold with a range down to -60dBFS.

Delay on each outputs now up to 190ms.

Adding new ID24 setups (Main, Front, Monitor and Lounge) for each directivity.

New GeoM10 setups (for 1 Box, 2-3 Boxes and Stack Monitor).

New MSUB15 setups (for Omnidirectional and Stack Monitor).

M6B setup included, can be loaded on "Sub" channel.

After DTD updated in 2.01 from Dory, full network remote control available (for network versions) with NEMO.

Dory v1.12

Fixed aleatory bug on preset upload.

Added front gain control on software mode.

Solved communication slow down issue during USB audio streaming.

Fixed dual screen bug on Windows.

Improved firmware/preset upload speed.

Added copy/paste/linked editing on eq control.

Added linked editing on user compressor control.

Added front gain read back.

Added new version notification.

Dory v1.11

Add support for legacy PS/LS series.

Solve a bug on the phase of the IDS110 sub.

Review protection level for all the setups.

Fine tune the EQ settings on all setups to match NXAMP response.

Known issue: The USB audio streaming is distorted when playing from PC computers and can slow down the remote control process.

Dory v1.09

Solve a bug with the Wideband or Crossover switch (hardware mode).

Dory v1.08

Add PS and LS support.

Dory v1.07

First public release supports only ID24 and IDS110.