NEXO
R&D DEPT.

NXAMP4x1 and NXAMP4x4 firmware LOAD2_48

Dear NXAMP user,

The firmware included in this package is LOAD2_48.

This is a beta firmware for NXAMP. Here are the implemented parts and the restriction of this firmware:

- Same setups of NEXO cabinets than for NX242-ES4 (minus GeoT setups).
- Flat setup available to use the amplifier as a standard 4 ch amplifier.
- GeoT setups in bridge mode added.
- All large NEXO speakers available in bridge mode on both amplifiers.
- Volume, gain, delay, ArrayEQ available for each channel.
- Input patch available for each channel (see bellow note).
- 32 set of user settings can be saved/recalled.
- Static output patch as followed (ch 2 and 4 unused in bridge mode):

  Channel 1 => Output on Speakon A 1+/1- (and also on speakon B 2+/2-)

  Channel 2 => Output on Speakon B 1+/1- (and also on speakon A 2+/2-)

  Channel 3 => Output on Speakon C 1+/1- (and also on speakon D 2+/2-)

  Channel 4 => Output on Speakon D 1+/1- (and also on speakon C 2+/2-)

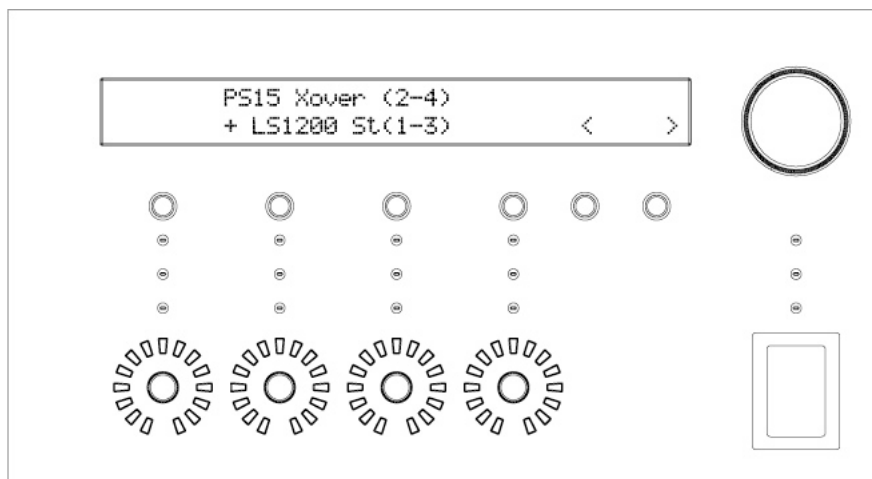Here are the limitations of this beta load:

- Security sub menu is not implemented
- GPIO sub menu is not implemented
- Miscellaneous sub menu is not implemented

This LOAD2_48 is compatible with all Nexo digital hardware (NX241, NX242, with or without Nxtension, and NXAMP), meaning that these hardware can be mixed together and will be compatible in level and latency (for both Analog and , as long as there are all using the LOAD2_48 firmware

Technical note: How to change NXAMP input patch

Here is the way you can use input patch:

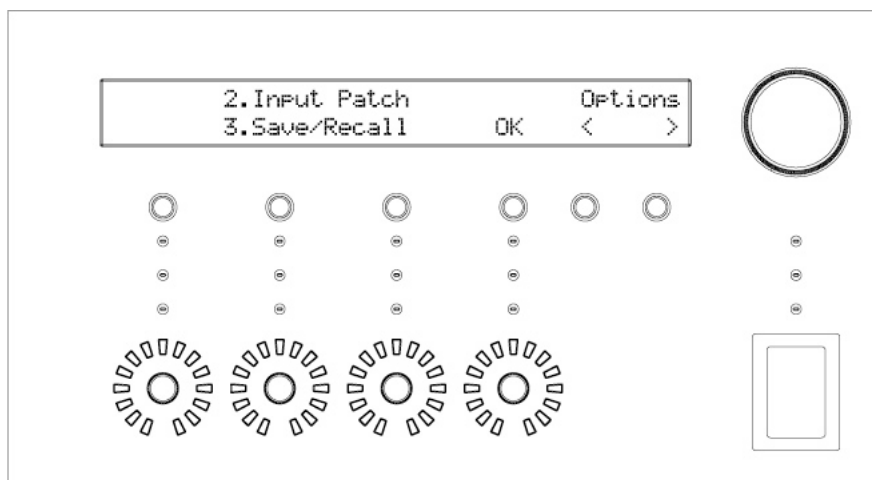For this example, we choose the following setup:
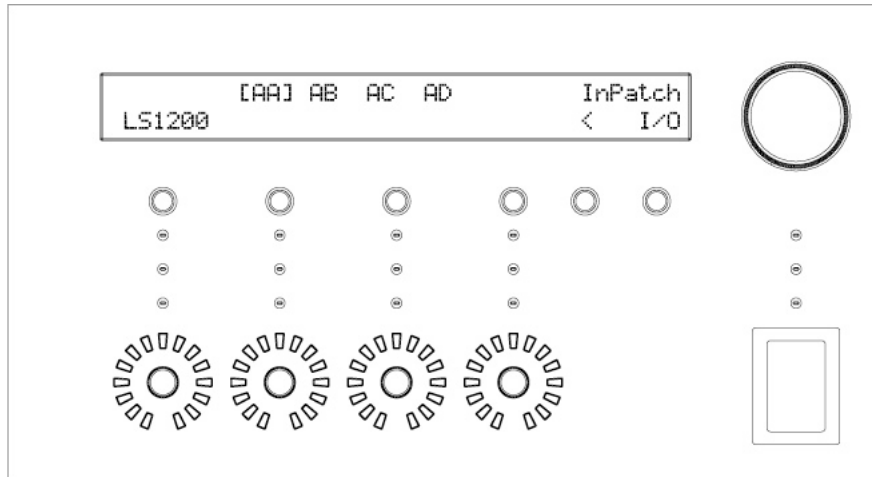

With this setup you will have:

- Channel 1: LS1200
- Channel 2: PS15
- Channel 3: LS1200
- Channel 4: PS15

So you will need to plug a cable on Speakon A (where you have Channel 1 (LS1200) on 1+/1- and Channel 2 (PS15) on 2+/2-) and on Speakon C (same with Channel 3 and 4).

Now we have to edit the input patch; to do so, go to the OPTION screen, with buttons A and B, and turn the wheel to select the sub-menu "2. Input Patch" (by pressing OK).

Then select the channel to edit; lets start with Channel 1 (LS1200); press the "select 1" button. By default you will see something like that:

The AA letters and so on are for **Analog input** (Analog Input A = AA, Analog Input B = AB ...) If and Ethersound board is fitted inside the amplifier you will see also the **Digital input** (Digital Input A = DA, ...)

Now there is three important things to know:

1) If an input is surrounded by [ ] is means that this input is patched on the selected amp channel; For example in the picture above we can see that the Analog Input A (AA) is patched on the Channel 1 (LS1200).

2) You can patch or unpatch the currently blinking input by pressing the button B (I/0 is for IN (patched) or OUT (unpatched)).

3) You can go from one input to the other by turning the wheel; the blinking input is the one that can be edited (see step 2 above).

You can of course edit the patch for other amp channel just by pressing the corresponding "Select" button, so you can quickly see the patch for all the channels.

Now, imagine that you want input A to be patched on channel 1 and 2 (LS1200 + PS15 for left side for example) and input C to be patched on channel 3 and 4 (LS1200 + PS15 for right side for example). Then you should have the following display:

For channel 1:

```
    [AA] AB  AC  AD
LS1200
```

For channel 2:

```
    [AA] AB  AC  AD
     PS15
```

For channel 3:

```
    AA  AB [AC] AD
          LS1200
```

For channel 4:

```
    AA  AB [AC] AD
               PS15
```

Of course you can patch several input on one channel if you want to do mono sum of things like that…