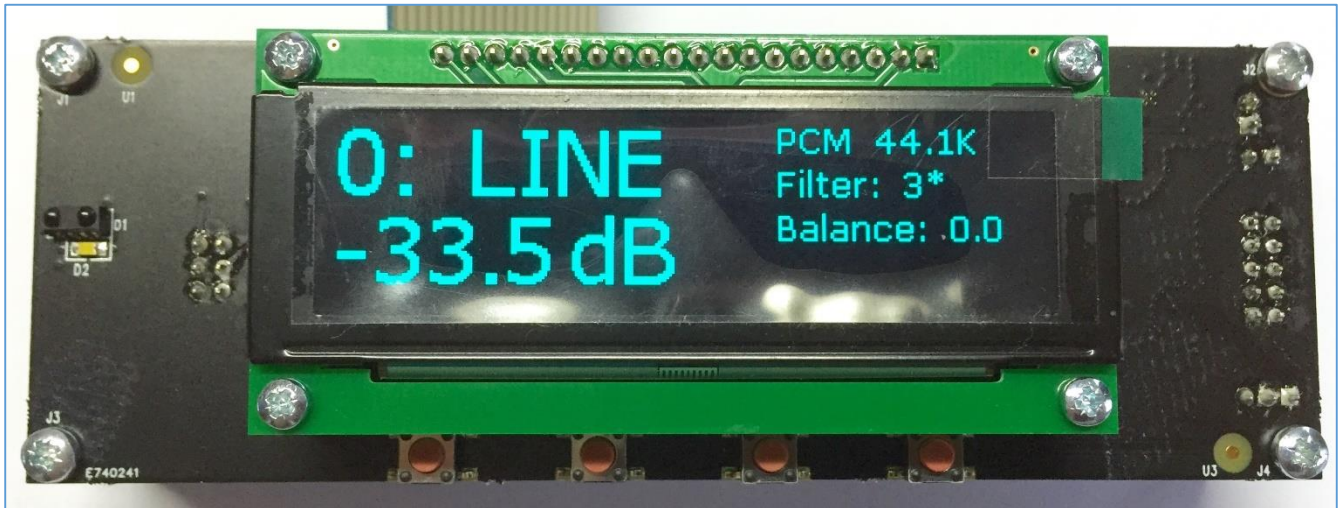Frontpanel User guide V1.0 120116 Firmware Version 00003.

Content
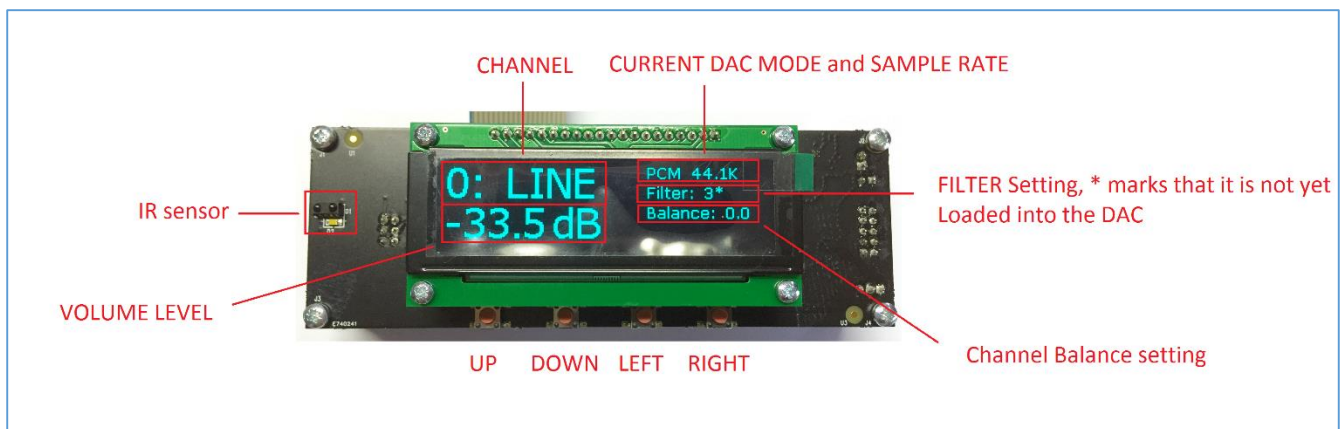
Basic Front panel design during daily use.

In the daily use of the Frontpanel / Preamp is build up like shown on the picture below.

The encoder is used only for Volume level. Volume level can also be adjusted from the remote. When connected to the AK4490 USB DAC the frontpanel can receive information about Sample rate and mode.

Filter settings can be modified in the menu system. Filter can go from 0 – 3. Channel balance also be modified in the menu and it allows a balance adjustment of +/-12dB in 0.5dB steps.

Channel

The preamp has 5 channels. The channels are named from "0:" to "4:". Text of the channel can also be modified in the menu system.

Volume Level

Volume can be adjusted from -120dB to +6dB in 0.5dB steps. If the preamp is muted, volume level is replaced by the text "MUTE".

IR sensor

IR sensor will blink if the frontpanel receives Remote signal from a classic apple remote or similar.

Balance

Shows the programmed balance level in 0.5 dB steps

Filter

Filter settings will have a '*' mark telling that the DAC has not loaded the filter setting yet. Filter setting is changed when sample rate is changed or loaded on power up.

Current DAC mode and Sample rate

The text displays the DAC playback mode if the AK4490 USB DAC is connected.

The display can show the following texts:

- PCM 44.1K
- PCM 48K
- PCM 88.2K
- PCM 96K
- PCM 176.4K
- PCM 192K
- PCM 352.8K
- PCM 384K
- DoP 64
- DoP 128
- DSD 64
- DSD 128
- DSD 256

Keys below display

The 4 keys below the display is used to switch channel (Up and Down key) or entering the menu system (Done by the Left key).

Apple remote functions

The Remote has 7 keys. The unmarked middle key is not used. The rest is used has described here:

- Up, Down (Volume Up / Down or menu Up / Down)
- Left / Right (Channel +/-, menu settings +/-)
- Play/Pause is for MUTE
- Menu is for entering the menu

Setting menu

To enter settings menu press "left" key on the frontpanel or "MENU" on the remote.

To exit with or without saving the settings we have to go to the SAVE menu. "Left" button exits without saving. "Right" button exits menu and saves the settings.

Use Left / Right in the other menus to change the settings.

The Menu system has the following functions:

- Filter
    - o Filter 0: Traditional filter, Sharp roll off
    - o Filter 1: Traditional filter, Slow roll off
    - o Filter 2: Short Delay, Sharp roll off
    - o Filter 3: Short Delay, Slow roll off
- Balance
    - o +/- 12dB balance in 0.5 dB step. Updates balance live.
- Def. Volume (Default power on Volume)
- Def. Channel (Default power on channel)
- Chan. Text (Channel text)
    - o LINE
    - o XLR
    - o SE
    - o USB
    - o DAC
    - o MM
    - o MC
    - o PH (MM)
    - o PH (MC)
    - o RIAA
    - o PHONO
    - o AK4490
- Remote ID
    - o Left resets remote ID .. Any remote can be used
    - o Right stores remote ID to filter all other remotes out
- SAVE
    - o Left – Exit without saving
    - o Right – Exit with saving