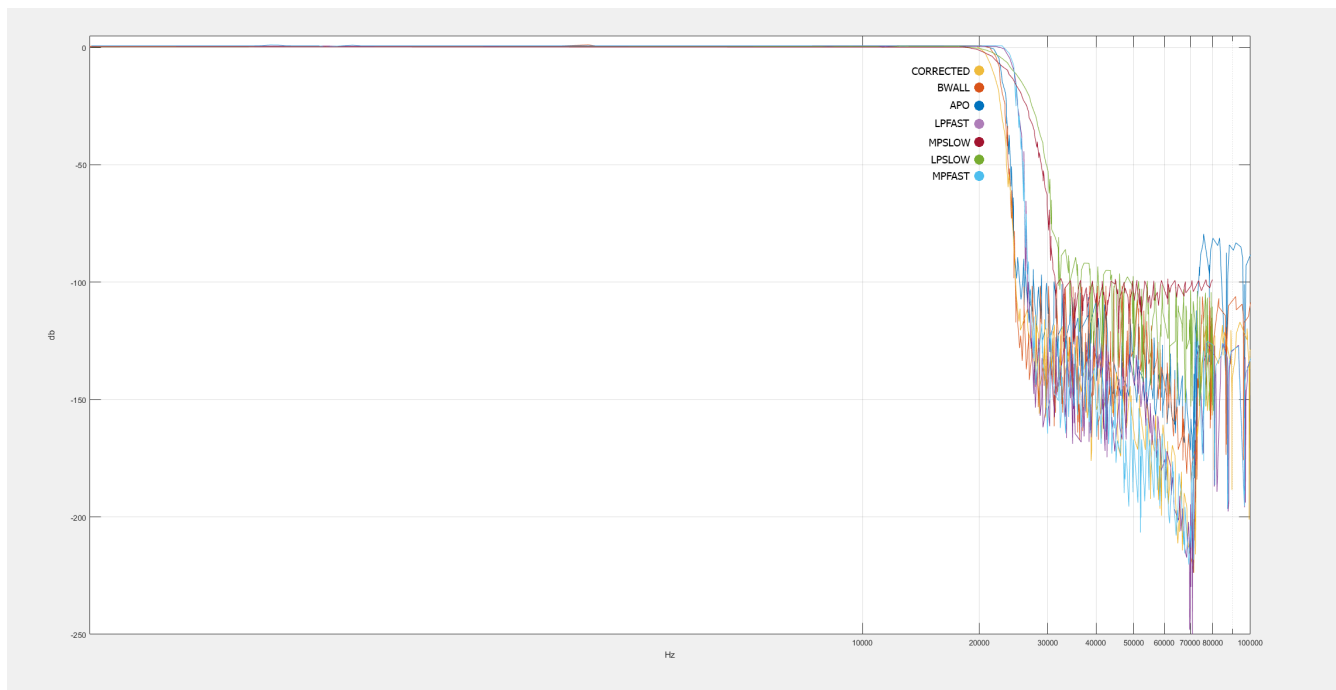


## E1DA #9038SG3 firmware pack.

The pack contains 8 FW files:

- 1) E1DA\_9038SG3\_PTL\_apodizing fast roll-off.hex
- 2) E1DA\_9038SG3\_PTL\_brick wall filter.hex
- 3) E1DA\_9038SG3\_PTL\_corrected minimum phase fast roll-off.hex
- 4) E1DA\_9038SG3\_PTL\_linear phase fast roll-off.hex
- 5) E1DA\_9038SG3\_PTL\_linear phase slow roll-off.hex(default 9038SG3 filter)
- 6) E1DA\_9038SG3\_PTL\_linear phase slow roll-off\_SE.hex SE mode(2<sup>nd</sup> harmonic domination, tube-like sound emulation)
- 7) E1DA\_9038SG3\_PTL\_minimum phase fast roll-off.hex
- 8) E1DA\_9038SG3\_PTL\_minimum phase slow roll-off.hex

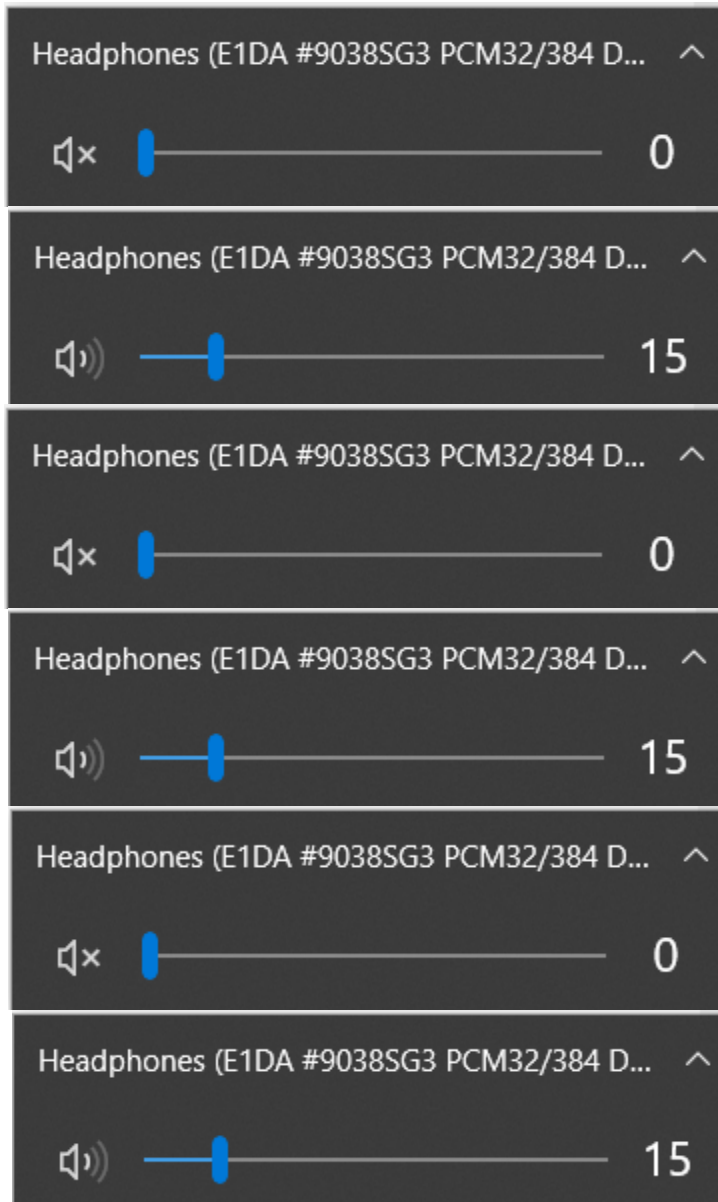
Different PCM filters has a different frequency and impulse response that's slightly affects the sound signature as well.



All 8 FWs have the new PTL function, which allows you to adjust max volume limit with 3dbfs steps. PTL means Push The Limit, this function uses combinations of UAC2 HW volume commands. To drop the limit for -30dbfs you should set the volume slider at min position next lift it up(not higher than 1/2 of the slider) and drop to the min volume again. If you repeat that voodoo 3 times during 2 seconds, the max volume limit will be set to -30dbfs. To increase the limit set the volume slider to the max position, next pull it down(not lower than 1/2 of the slider), and back again to the max position. After you repeat that at least 3 times, the limit will be increased for 3dbfs(you'll able to hear that), 6 times for 6dbfs, and so on up to 0dbfs i.e. no limit at all. This way you can limit 9038SG3 power in the range from -30..0dbfs, and avoid loud shock with sensitive EIMs.

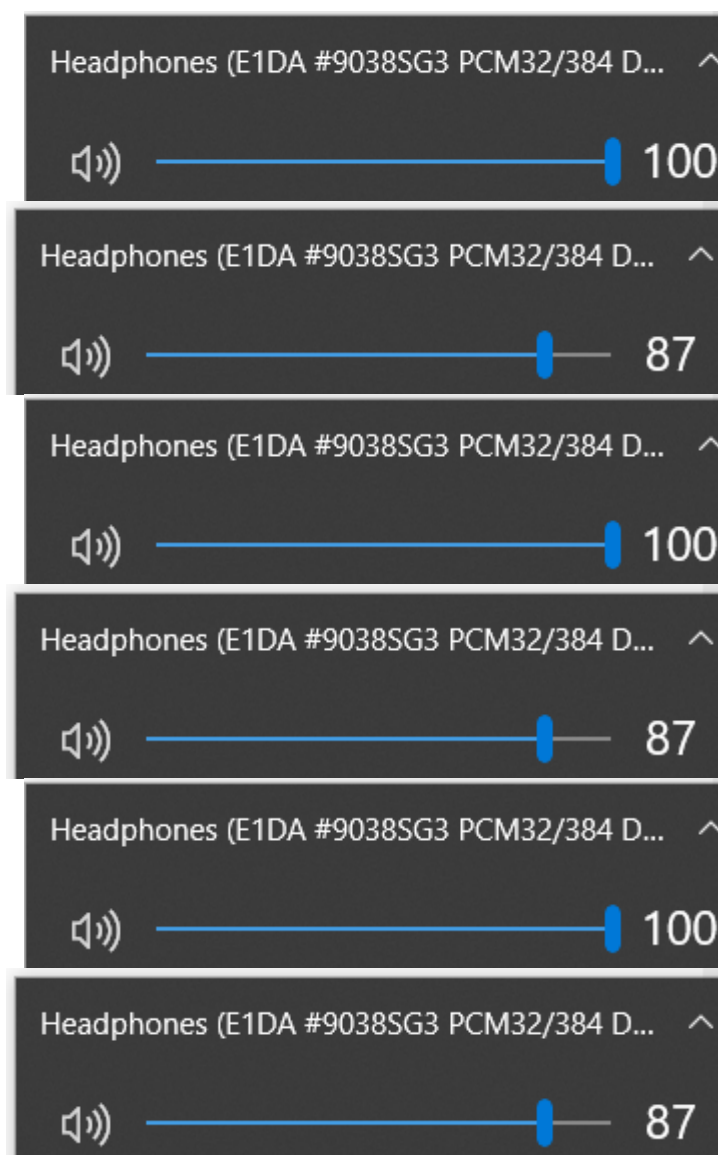
Example:

Your max volume is “unlimited” i.e. equal 0dbfs.



Now your max volume limited at -30dbfs.

If you need to increase the limit, make follows:



Now the max volume limited at -27dbfs.

[https://drive.google.com/file/d/1ShtYiQjXYCYBm4KbjDgKJPIWCz7w\\_GVc/view?usp=sharing](https://drive.google.com/file/d/1ShtYiQjXYCYBm4KbjDgKJPIWCz7w_GVc/view?usp=sharing)

[https://drive.google.com/file/d/1ShtYiQjXYCYBm4KbjDgKJPIWCz7w\\_GVc/view?usp=sharing](https://drive.google.com/file/d/1ShtYiQjXYCYBm4KbjDgKJPIWCz7w_GVc/view?usp=sharing)