



Satyr 4 (DIY HiFi Headphones)



Capra-Audio

[VIEW IN BROWSER](#)

updated 17. 9. 2026 | published 17. 9. 2026

Summary

Audiophile-Grade High Fidelity Headphone design. Brought to the 3D printing community and optimized for DIY!

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[headphones](#) [audio](#) [speakers](#) [stereo](#) [hifi](#)

Capra Audio

Satyr 4

DONT WORRY! I've already done the hard part for you! I spent thousands of hours learning the science behind headphones to create this headphone design! As the 4th iteration of the Satyr Open Back Series I have spent the past few years honing my skills and improving my designs with each new model.

What makes this headphone Hi-Fi? SCIENCE! I used state of the art headphone measuring systems (some of which I had to design myself because they didn't exist yet!) to bring Satyr 4 to life.

This 3D printable headphone design easily beats out all of its competition in the category of DIY headphones and even beats out a lot of mainstream headphones too! So long as you use all of the correct materials in the BOM and follow the instructions in assembly you'll have a headphone that competes with and beats out other headphones in the \$1,000-\$10,000 range. Don't trust the DIY competition when they say you can use any old speakers and earpads and you'll get a decent headphone, this is a science and you need to be precise to get actually good results. [Join the discord](#) community and be apart of something bigger!

New to Hi-Fi? Check out [this guide!](#)

Test out colors here:

Capra Configurator Written Instructions + BOM link:

GOOGLE DOC Kits can be ordered here:

Capra Audio Store - USA

West3D - USA

KB-3D -USA

DREMC - Australia

PhaserFPV - Australia

Zen3D - EU

OneTwo3D - UK Headband Files:

V3 Capra Headband

Cant Print TPU?!? No sweat, we sell those too:

TPU Parts



Check out these reviews:

[Den-Fi's Ish's CanJam 2026 Review](#)

[Headphones.com's Listener's CanJam 2026 Review](#)

[DMS' CanJam 2026 Impressions Video](#)

Helpful Guide and Overview by Craig Stark!
Armor3D Printing Live Reaction!
MisterE Live Reaction!

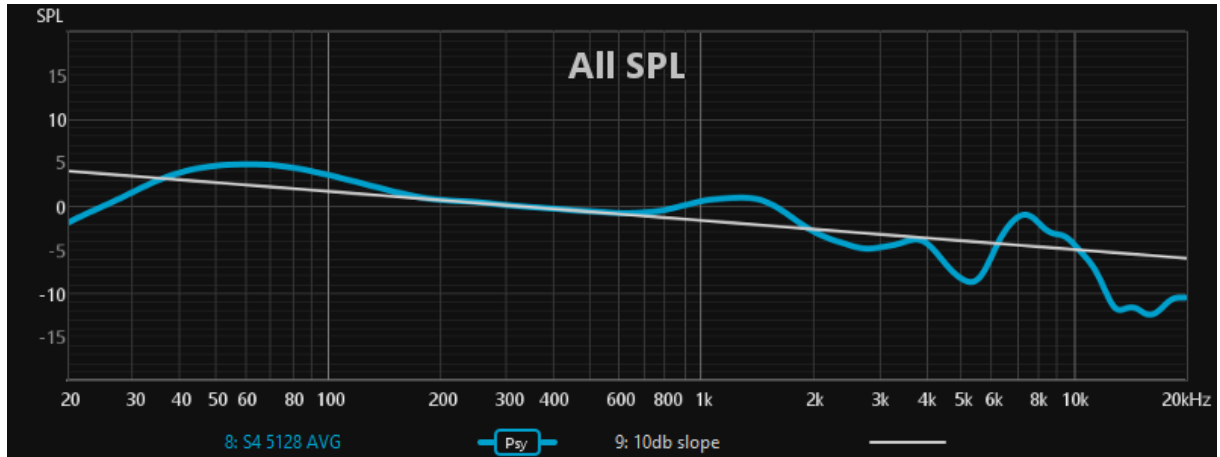
**Rigorously Tested and Verified using Top of the Line
Scientific Acoustics Measuring Equipment**



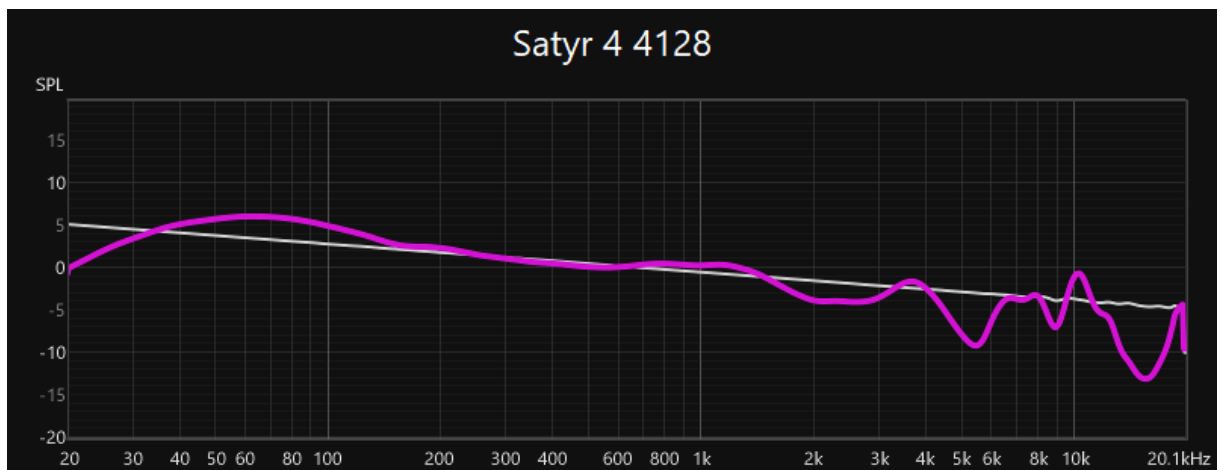


Works with the **Meze Microphone** for HiFi Voice Chat! OR the **FAAEAL Microphone** for a budget option! Frequency Response Graphs:

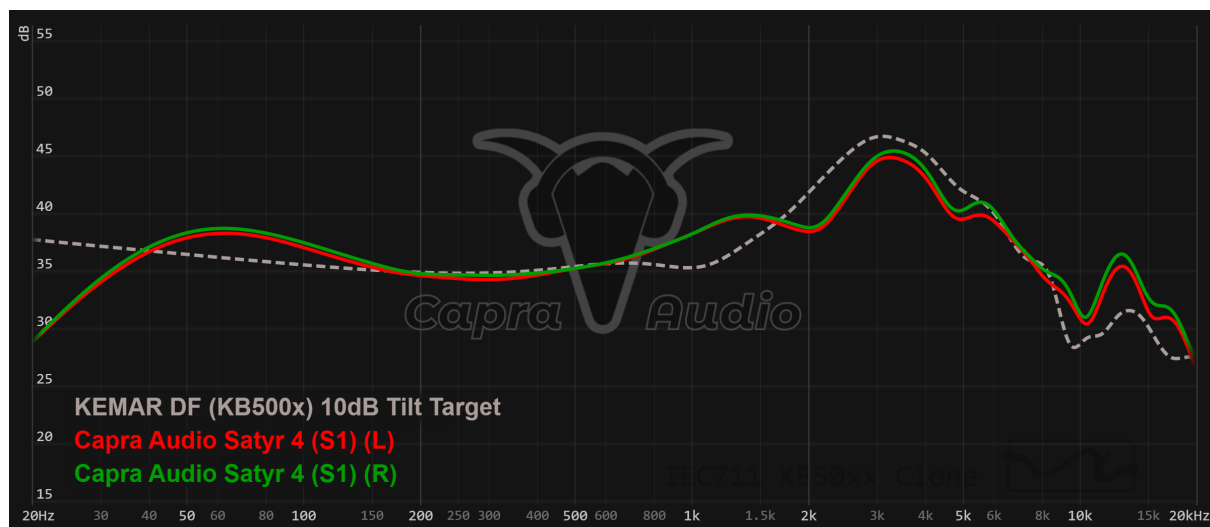
B&K 5128:



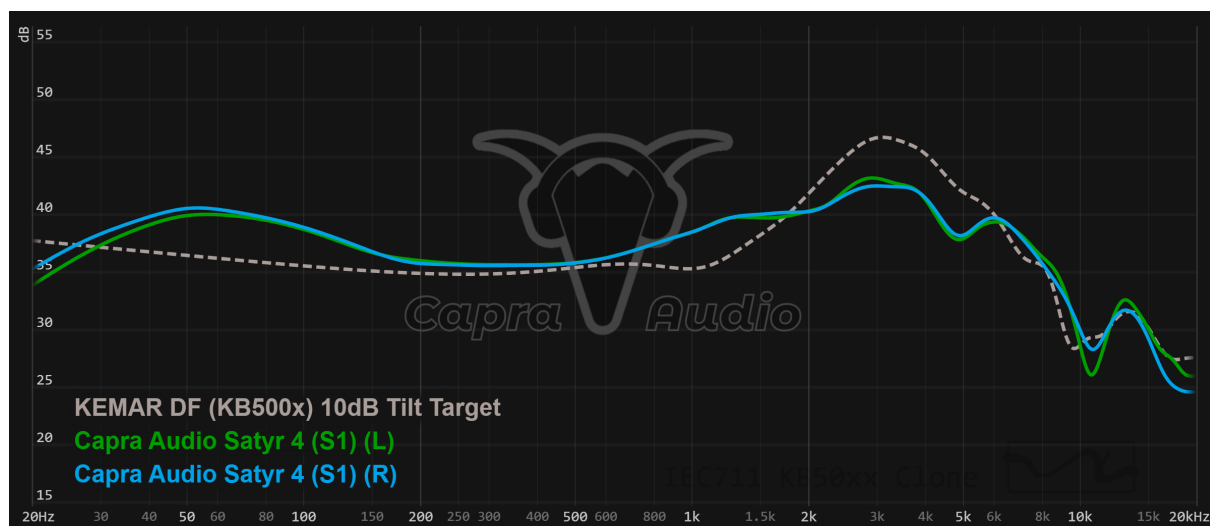
B&K 4128:



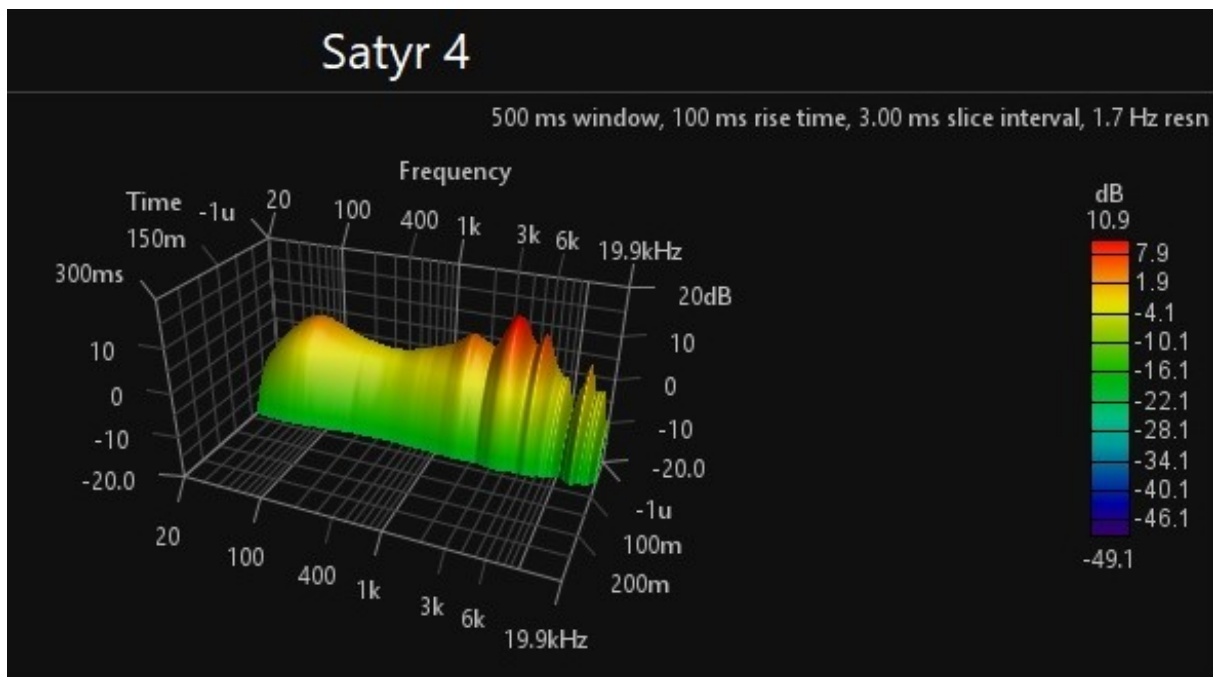
IEC711 GRAS Clone:



MiniDSP EARs Pro:



Waterfall Graph:



Waterfall graphs don't actually tell you much of anything about headphones, they just look cool.

Video Instructions:

This one is a little out dated in so far as screw sizes, the steps are still the same!

<https://www.youtube.com/watch?v=KT3saAb9X3M>



Model files



satyr-4-project-orcaslicer.3mf

☐ Project File for OrcaSlicer



yoke-r-s4-01.3mf

☐ ABS, ASA, PCTG, or PETG



yoke-l-s4-02.3mf

☐ ABS, ASA, PCTG, or PETG



baffle-rim-s4-03.3mf

☐ ABS, ASA, PCTG, or PETG



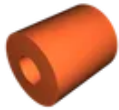
baffle-s4-04.3mf

☐ ABS, ASA, PCTG, or PETG



driver-plate-s4-05.3mf

☐ ABS, ASA, PCTG, or PETG



spacer-s4-06.3mf

☐ Any Material



housing-r-s4-07.3mf

☐ ABS, ASA, PCTG, or PETG



housing-l-s4-08.3mf

☐ ABS, ASA, PCTG, or PETG



trim-s4-09.3mf

☐ ABS, ASA, PCTG, or PETG



inner-grille-s4-10.3mf

☐ ABS, ASA, PCTG, or PETG



outer-grille-s4-11.3mf

☐ ABS, ASA, PCTG, or PETG

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