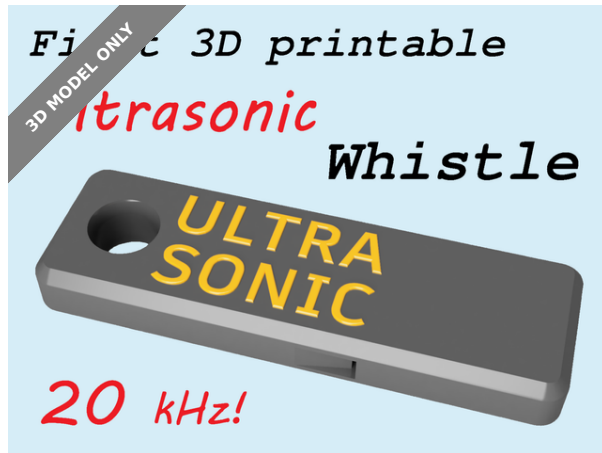




First 3d printable Ultrasonic Whistle



ThreeD-Michael

[VIEW IN BROWSER](#)

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Summary

I proudly present the first working 3D printable Ultrasonic Whistle.

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Tags: [dog](#) [whistle](#) [ultrasonic](#) [pfeife](#) [ultrasound](#)
[ultraschall](#) [20khz](#)

News 2024-03-17:

My newest whistle design, a **Long Range Dog Whistle** at **7,000 Hz**. Please download [here](#).

**Long
Range**



News 2024-01-21:

I designed an **ultrasonic** dog whistle with an even higher pitch of **23 kHz**, which you can download [here](#).

**23
kHz**



After a lot of fine work and countless test prints, I proudly present the first reliably functioning 3D printable **Ultrasonic Whistle**. With a powerful blow, it breaks the barrier of **20 kHz** that separates ultrasound from “normal” sound.

You'll probably think that this whistle isn't working - but that's because humans (especially as they get older) hear higher tones less loudly or not at all - unlike many animals! I therefore recommend a frequency measurement app for testing. I use [this android app](#).

WARNING:

This whistle is **not** a toy! It's very loud which can harm the ears, so please protect your ears and don't use it near other people or animals!

How to print:

First of all: this whistle has very small structures inside - corresponding to the short wavelength of ultrasonic sound. For successful printing, your printer should be well calibrated and work precisely.

Use a line width of 0.4 mm and a layer height of 0.2 mm, 8 top layers and 8 bottom layers.

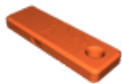
The whistle requires correct positioning of the Z-seam - it shouldn't be placed in the narrow air passages inside the whistle. The Z-seam should be positioned as shown in the last 2 images above. Use the “Z Seam

Alignment: User specified" option in Cura or the "Seam Painting" option in PrusaSlicer and Bambu Studio to achieve this.

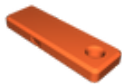
If you want a dual color print, change color at layer 29.

Print slowly to achieve sharp edges!

Model files



ultrasonic-whistle.stl



ultrasonic-whistle-without-imprint.stl

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