



Mini Boombox (Alien3D Project)



lowboydrv

[VIEW IN BROWSER](#)

updated 15. 5. 2022 | published 15. 5. 2022

Summary

This was Alien3D's February Project - a mini boombox. I designed it using Sketchup. I have included 2 sets of files:...

[Hobby & Makers](#) > [Music](#)

Tags: [boombox](#) [kit](#) [diyelectronics](#) [bluetoothspeaker](#)
[musicplayer](#)

This was Alien3D's February Project - a mini boombox. I designed it using Sketchup. I have included 2 sets of files: AC and USB. While most files are for either project, the ones labeled "AC" are for using with an AC adapter (includes holes for a On/Off switch and AC adapter connector). The "USB" files use the usb plug on the bluetooth board and do not contain holes for the On/Off switch nor the AC adapter connector.

There are also 2 versions of the "face" plate: one with the Alien3D logo and one without. I achieved the two color printing by doing a filament (color) change at 5.2mm layer height.

You will need to print 2 of each of the following parts (no matter which project you choose):

ABB_Side

ABB_Grill

ABB_Grill Ring

I have also included a full set of .3mf files along with the normal .stl files.

Here are the electronic components used in this project. I have included a link to give you an idea of the part and their price (you do not have to buy from this link, shop around and use your favorite source of electronic parts):

MH-M38 M38 bluetooth 4.2 Audio Receiver Module 5W+5W Lossless Car Speaker Headphone Amplifier Board Wireless Refit https://www.banggood.com/M38-bluetooth-4_2-Audio-Receiver-Module-5W5W-Lossless-Car-Speaker-Headphone-Amplifier-Board-Wireless-Refit-p-1486746.html?rmmds=buy&cur_warehouse=CN

\$3.58

Mni Round Black 2 Pin SPST ON-OFF Rocker Switch Button (red) https://www.banggood.com/Mini-Round-Black-2-Pin-SPST-ON-OFF-Rocker-Switch-Button-p-911385.html?rmmds=search&ID=224&cur_warehouse=CN

\$1.42

AC to DC 5V 2A Power Supply Wall charger Adapter https://www.banggood.com/5_5MM2_1MM-AC100-240V-to-DC-5V-2A-Power-Supply-Wall-Charger-Adapter-Converter-p-1083183.html?rmmds=search&ID=47757&cur_warehouse=CN

\$4.23

DC Power Supply Jack Socket Female Panel Mount Connector 5.5 X 2.1mm https://www.banggood.com/Waterproof-3A-5_5-X-2_1mm-DC-Socket-plug-Power-Charger-Plug-Female-Panel-Mount-p-1053675.html?rmmds=search&cur_warehouse=CN

\$1.01

2x 3" Speakers <https://www.arrow.com/en/products/1314/adafruit-industries?gclid=Cj0KCQiA4sjiBRC5ARIsAEHsELE0TFMECmg6B696cl4TJvoV6bOHjkmIEUxPbDzP3B>

\$1.95 each (\$3.90 pair)

Hardware:

5 - M3x8 mm Socket head screws (for back plate)

Print Settings

Printer Brand:

Prusa

Printer:

I3 MK3S

Rafts:

No

Supports:

Yes

Resolution:

.2mm

Infill:

20%

Filament: Paramount and eSun PLA

Maroon and Green

Notes:

I tried to design it without supports, but I built in guide pegs which will require supports.

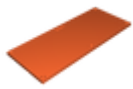
Post-Printing

Category: Music

Model files



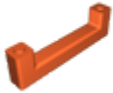
abb_top_ac.3mf



abb_back_usb.stl



abb_grill_ring_x2.stl



abb_handle.stl



abb_grill_ring_x2.3mf



abb_face_no_logo.3mf



abb_back_usb.3mf



abb_bottom.stl



abb_top_ac.stl



abb_top_usb.stl



abb_face_no_logo.stl



abb_face.stl



abb_back_ac.3mf



abb_face.3mf



abb_grill_x2.stl



abb_side_x2.stl



abb_top_usb.3mf



abb_bottom.3mf



abb_side_x2.3mf



abb_grill_x2.3mf



abb_back_ac.stl



abb_handle.3mf

[Find source .stl files on Thingiverse.com](#)

License ©

This work is licensed under a
Creative Commons (4.0 International License)



Attribution

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✓ | Commercial Use
- ✓ | Free Cultural Works
- ✓ | Meets Open Definition