



BCN3D Sigma R16 to R20 screen frame adapter



mshrg

[VIEW IN BROWSER](#)

updated 9. 8. 2022 | published 9. 8. 2022

Summary

So I cracked my original screen of the BCN3D Sigma R16, and bought the r20 screen in a rush, expecting that assembly...

[3D Printers](#) > [3D Printers - Upgrades](#)

Tags: [adapter](#) [bcn3d](#) [bcn3dsigma](#) [frame](#) [screen](#) [sigma](#)

So I cracked my original screen of the BCN3D Sigma R16, and bought the r20 screen in a rush, expecting that assembly would be hassle-free, but found out that it's not a plug-and-play affair.

Designed with a calliper, eyeballing some measurements, and iterating the design two times I came up with this, it could use some improvement, but it does serve the function well enough now.

The back insert is friction-based, but the screen frame is a bit loose and it could use some sort of adhesive/glue, I personally used reusable sticky putty (Tack-It from Fabre Castell) on both the screen frame and the back insert for extra assurance.

Print Settings

Printer:

Artillery Sidewinder X1

Rafts:

No

Supports:

Yes

Resolution:

0.32

Filament: Fillamentum PLA Rapunzel Silver

Notes:

Software Used: Cura 4.6.1

Quality:

Line Width: 0.48mm (from a 0.4mm nozzle)

Initial Layer Line Width: 150%

Shell:

Wall Line Count: 2

Top Layers: 3

Bottom Layers: 2

Top/Bottom Pattern: Zig Zag

Infill:

Density: 8%

Pattern: Zig Zag

Speed:

Print Speed: 100mm/s

Wall Speed: 80mm/s

Outer Wall Speed: 60mm/s

Print Acceleration: 650mm/s²

Travel Acceleration: 800mm/s²

Experimental:

Enable Conical Support

Category: 3D Printer Parts

Model files



r20_frame.stl

[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