



Fully 3D printed Steam frame top strap

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Summary

TPU top strap + PLA battery clip for the Steam Frame VR headset

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If you don't have webbing like in the original but have a 3D printer and some TPU, this gives you a steam frame top strap for 20g of plastic.

The top strap must be printed out of TPU, or other soft filament. Pick the largest version you can fit on your printer, diagonally. Don't forget to turn on "Avoid crossing walls", and set the fill pattern angle to 0deg.

You can print the back part out of any rigid plastic.

The folder "Straps by hole count" includes the strap, and an extender to increase the number of holes to 50. In my experience, 42 holes is enough, shorter lengths are for people with smaller beds. The first number is number of holes in the strap, the second number is the number of holes in the extender.

If you want a conversion to length, holes are spaced 7mm apart, and there's a 5mm spacing with the edges.

length of midsection = $(nbholes-1)*7mm+5*2mm$ (+20 for the main strap)

This remix is based on



Steam Frame - DIY Top Strap (2 clips + webbing)

by sune-ku

Model files



Straps by hole count

3 files



3317holes.3mf

☐ Fits in 200mm bed



3713holes.3mf

☐ Fits in 220mm bed



4210holes.3mf

☐ The largest size you want, +10 holes just in case. Fits in 242mm



STEP files

2 files



battery-clip.step



top-strap.step



Old straps (by length)

3 files



top-strap-270mm.3mf

☐ Fits in 200mm square bed



top-strap-300mm.3mf

☐ Fits in 220mm square bed



top-strap-320mm.3mf

☐ Fits in 230mm square bed



battery-clip.3mf

☐ To clip on the back of the headset



15-holes-extender.3mf

☐ Adds more holes, clips into other straps

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