



GoPro chest mount adapter

 aiber

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Summary

replacement arm that connects to the chest mount plate via a snap fit buckle

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Tags: [gopro](#) [nut](#) [mount](#) [arm](#) [chest](#) [adapter](#) [m5](#)

General

- I'm probably not going to print this for the foreseeable future, even to test fit, because I already have a replacement
 - therefore, fitment & hole sizes are provided by best guess
 - if you're the first one to print, please post a make & comment on the fitment
- ideal for an SLA print to capitalize on more isotropic strength
 - suppress the SHELL feature to make it more FDM friendly
 - recommend a more ductile material like PETG in case the hole sizes aren't great
- rev 1.1 should be used, rev 1 is just an old backup I made while testing CAD tree changes

Features

- mostly a replacement for the original GoPro arm

- uses M5 x 20 mm screw, I recommend a button head
 - I don't care about the adjustment knob for tool-free adjustment
 - if you do, I suggest a much longer screw to fit whatever knob you choose to use
 - stock screw is about 45 mm long (shown left, below)



- the OEM injection molded plastic arm (shown right) uses pitifully thin wall thicknesses to capture an acorn nut in a pocket, which all broke when I tried to remove the fixing bolt
 - therefore, I beefed up this area significantly
 - pocket depth is 5 mm, sufficient for a nylock nut which should be an improvement over the stock acorn nut (no anti-vibration capacity)

Instructions

There's a side release buckle (shown in center) that mates with the flat chest mount plate:



- You're going to reuse this part & the included screws (qty 3) which appear to be M3 x 8 mm CSK thread forming screws.
- fasten the 3D printed arm to the buckle with qty 3 screws
- assemble GoPro to taste

Model files



adapter-chest-mount-gopro_r1.sldprt



adapter-chest-mount-gopro_r11.sldprt



adapter-chest-mount-gopro_r11_11_v.stl

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