



GoPro 11 Mini Drone Mount: Any Drone, Any Tilt, Any ND



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[VIEW IN BROWSER](#)

updated 14. 6. 2025 | published 14. 6. 2025

Summary

For bando-bashing or for cinematic,

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geprcbabycrocodile iflightprotek25 protek25 protek35
 rotorriothd1 ummagawdmoongoat armattantadpole x220
 iflightnazgul tbssourceonev3 ethixcinerat hglrcsector5
 sector5 ummagawd2fiddy tbssourceonev4 iflightchimera7
 armattangecko piratframe citroframe skyliner
 iflightnazgul5 nord5 nordfpv geprcsmart35
 armattanbeaver freelon cineboy alpharc sbando
 vegasbando rotorriotbubby rotorriotskyliner diatoneroma
 openracer tbssourceonev5 voladorvx5 gopro11
 gopro11mini kayouframes kayoukayoudur diatoneromalr4
 heksjoocy craftquads supaflyflipmode craftquadsloflo
 flipmode heksframes supafly iflightbob57

Companion project to my other parametric configurable FPV designs:

Pod O4 Frame	Whoop	Action2, 3-5	AcePro	GoPro Mini	Hero 9-12	Antenna Mount
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Protect your GoPro Hero Mini 11 camera with the best mount in FPV! Max protection with **TPU in front of the lens** but still with a clean image. How? I've modeled the camera's field-of-view (FOV) and built my design around it. My flexible on-demand design can fit 300 different frames, different camera angles, ND filter options, positions, etc.

This is an ON-DEMAND design!

Only a few basic 150 versions are posted here, everything else is made for you (for free) on my **3D Design discord**. You choose what options, I make you designs, you send me photos of your builds! See the Steps below.

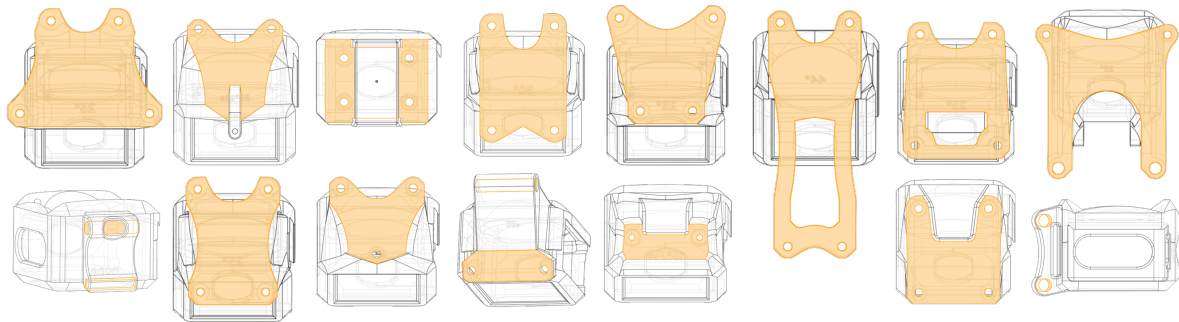
New things:

- I've made a new **Instagram account** for showcasing users' prints of my designs!
- New back LCD protection modular wedge is now standard! See details below
- New TBS ND filter redesign slots in from the side!
- **Thingiverse page** is live! Go add a ♥ to save it for reference later!
 - post a **make** to show off your build and inspire others!

- Part of my on-demand alive 3D design projects. See the table above and **all the designs in my profile!** I've made tens-of-thousands of designs and new friends for pilots all across the globe.
- Universal GoPro-style attachment version? I can make that too!
- Look at all the photos of **the makes!** Post your own!
 - Thanks for the new cover photo from Blufkip in his **make post!**

Just Follow the Steps!

Step 1: Pick your quad(s)



What quad you got?? I've made a highly flexible, adaptive system, with over 80 different bases, new ones every day. Even if your quad isn't here please ask, I bet I can make it work.

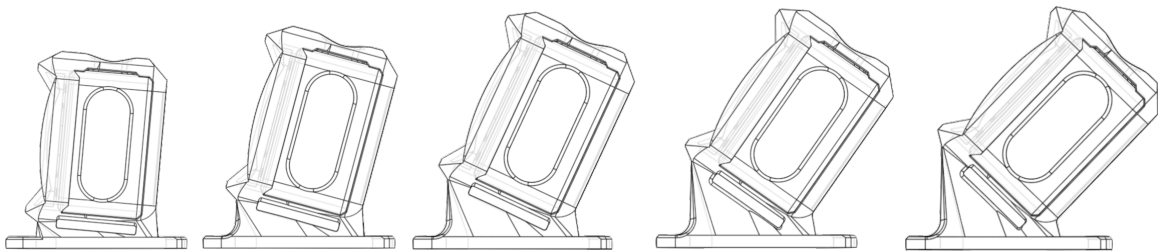
Made for every quad like:

- **Classic designs** from the Apex by ImpulseRC to the Y6 by Freelon and everything in-between
- **Open source designs** like the **OpenRacer** for racing and the **TBS Source-One** for freestyle
- **Family designs** where one manufacturer has a common bolt-pattern for all their quads: AOS (AOS5, LR5, UL5, AOS7, etc), iFlight (XL5/ Nazgul, SL5/Cidora, F5D-Evoque)
- **Anti-family manufacturers:** GepRC (mark2, mark4 analog, HD, 4k, mark5, 5 classic, Smart35, Baby Croc, Gep180, 7, etc), Rotor Riot (HD1, CL1, CL2, Skyliner/mk3, bubby), Lumenier (QAV-S Johnny, S JB, R 2, S Mini 3) Diatone (Roma F5 V1, V2, F35), FPVCycle (Glide std, Glide+, CineSplore, Sonicare, Toothfairy), etc
- **Bolt-across designs** like the Bando Killer or the Catalyst Machineworks Shocker,
- **Hybrid bolt-across designs** like the Ummagawd 2Fiddy
- **Hybrid belt/bolt designs** like the Armattan Chameleon/Marmotte/Badger, even the tiny Gecko
- **Mullet designs** (bolt-across in the front and bolt-down in the back!) like Rotor Riot Skyliner, FPVCycle Sonicare, Ummagawd Moongoat, Rotor Riot Bubby Moxxy
- **Hook-under designs** like the Diatone Roma mounts or the Armattan Gecko

- **3-bolt designs** like the Protek25, Ethix Cinerat, Hyperlite Freerange 5, Reptile Cloud 149, Primitive FPV Primal 5, ImpulseRC Reverb, etc
- **2-bolt** designs like the Shendrones Squirt/Terraplane/Hydroplane, GepRC Cinelogs
- **Insane** designs like the MB Epic 262 v2 (see the photos to see what I mean)
- **Standard gopro-style** finger-bracket attachment too

Look at all the photos of **the makes!**

Step 2: Pick your uptilt angle(s)



- Cinewhoops: 10-20°
- Cinematic/Long Range: 20°
- Freestyle: 25-30°
- Racing: 40°+

Step 3: Pick your ND Filter (or none!)

1. Badass all-around TBS-style plate-glass

1. 2.5mm thick filters [[tbs site](#)]
Also compatible with the similar 2.5mm thick Camera Butter insert filters.

2. Held in from top and bottom notches, inserted from either side.

3. Also works great without filters (and even provides extra protection over no-ND option). The most flexible option!

2. Optional: overkill TBS-style

1. It's bigger, heavier, sometimes less durable since it's got a dedicated slot.
2. Makes camera install/removal much more difficult.

3. **Lens-replacement** style

1. These don't need anything special, just replace the lens with a darker one!



4. Over-Lens NDs

1. Works.. just gigantic, less protective, and usually expensive.
2. Leaves a huge gap when filming without the ND

All ND versions/tilts are **configured on-demand!** See **Step 7!**

Step 4: Camera Positioning

1. Standard

- Props probably in view
- Full size underbelt slot (see below. adds extra protection option and reduces vibration / image jello)
- Your quad's frame takes head-on impacts, camera hits second.

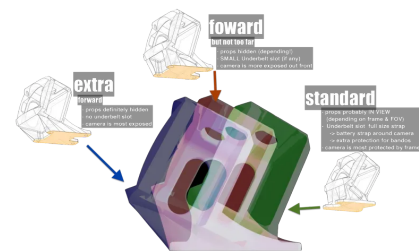
2. Forward

- Props hidden (depending on frame)
- Small underbelt slot (if any)
- Camera is more exposed. Less great for bando bashing.. but also this mount offers lots of protection.

3. Extra Forward

- Props definitely hidden
 - No underbelt slot option.
- Camera is very exposed out-front.
Probably not best for bando bashing but great for cinematic.

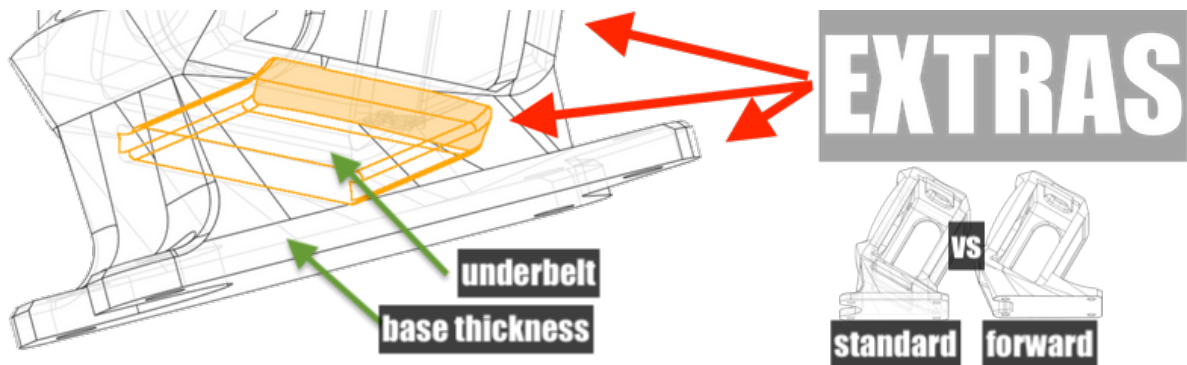
Here's an illustration for the differences.. but please excuse the camera body. I haven't re-made this graphic with the GoPro 11 Mini yet:



Step 5: Bolts & Base Options

- Base Thickness:
 - Standard is **now 4mm thick for these larger cameras.**
- Bolt style:
 - Standard size is now with an enlarged 7.2mm diameter bolt-head.
 - Previously known as the bigboltz option, now it's default.
 - Great for things like these **FPV Countersunk Washers** if you want extra strength/flair.
 - Shoulder-bolts option.
 - Great for products like the **QuadMula PS-3 Spacers** that come with the Quadmula frames.

Step 6: Strap Slot, etc



1. **Underbelt** slot allows for an optional battery strap around the camera for extra ejection protection and slightly more front-end hit protection.
 1. Also seems to really reduce jello by allowing for a smaller area for vibration transmission to pass through. Great!
 2. Now included by default on standard mounts.
 3. Nobody has ever had a failure from the belt slot.. there's nearly zero downside to including it!
2. Ask about different camera wall size if you'd like.

Step 7: Request the STL!

Join my [discord](#) to request your specific custom version!

Everything is generated on-demand with the settings you ask for. Why?

1. The STLs in the 'files' section are outdated.
 - I can't possibly keep re-exporting, uploading, and organizing 80+ STLs after each tweak!
2. They don't have the configuration you want.
 - ND filters? Angle that's not 250°? Underbelt option? Thicker base?
 - I can't possibly upload all the variations!

So request it! I've set up my [discord](#) as a cool queue system. I'll get you your custom STL in less than 24h, usually right away.

Step 8: Print Settings

- Print with TPU filament, slowly
- Use tree support if your slicer supports it
- Best printed on its side (as oriented in the STL).
- Use 2 perimeter walls for most setups. 3 walls for bando bashing.
- Infill: Use 20 - 30% infill.
 - 20% gyroid infill for cinematic / long range setups.
 - 25 - 30% cubic infill for bando bashing

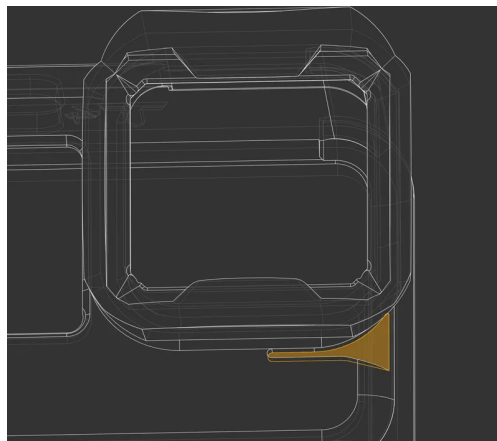
- Really don't go above 30% infill, it just adds extra weight but no strength benefit

Also look at the makes section for other users' tips!

Step 9: Cut the USB/SD door & relief cuts



To aid in printing the USB/SD door is kept connected but with thin walls. If you'd like access to the SD card / USB port while inside the case then two cuts (colored in red) work in tandem with a built-in hinge area to allow easy opening!



Same for the under-lens relief cut. It's designed for easier camera entry/exit. If you're having trouble try cutting this highlighted spot!

Step 10: Post your makes!

Please post 'em! Really! Take a cameraphone photo with your dope color matched mount in all its glory and show it off! Plus it really helps get this design out there to the world.

Sharing & License & Stuff

The LAST thing I want to do is restrict anyone from sharing. But. PLEASE share links to this printables page, not the STLs. Here's why:

1. This is under active development. The STLs WILL CHANGE and get better.
2. The documentation is really important here, and I'm sure there's stuff I'll be adding as feedback comes in.
3. The community is important, I want people to reach out and join the [discord](#) not download some STLs and go it alone.
4. It's just a super dick move to repost designer's stuff. I've spent a long time making, testing, and documenting this and my only reward is that little stupid 'like' counter, download counter, and photos/stories from users. DON'T DEPRIVE ME OF MY ONE SENSE OF SELF WORTH

The actual license is Creative Commons (4.0 International License) Attribution—Noncommercial—Share Alike. If you'd like to print this commercially then reach out to me with a direct-message on [discord](#) and we can talk. Flying professionally using my designs is fine- though please do consider donating to support my work!

Model files

 **Armattan** 2 files

 **bolted-gopro11mini-rev3-armattan-beaver-short-15deg... .stl**

 **bolted-gopro11mini-rev3-armattan-beaver-long-15deg-... .stl**



Lens Caps!

2 files



gp-lens-cap-mini11-nd-none.stl

☐ for the rev5 versions only! (new versions than what's here)



gp-lens-cap-mini11-nd-slim.stl

☐ SLIM TBS version: for the rev5 versions only! (new versions than what's here)



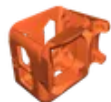
AOS

3 files



bolted-gopro11mini-rev5-aos-v5-10deg-std4-underhang... .stl

☐ for the V5 AOS frames' new 28x28 mounting pattern, standard positioning



bolted-gopro11mini-rev5-aos-family-10deg-std4-under... .stl

☐ standard positioning for the original 32x32 bolt pattern frames



bolted-gopro11mini-rev5-aos-family-10deg-std4-forwa... .stl

☐ FORWARD positioning for the original 32x32 bolt pattern frames



ImpulseRC

4 files



bolted-gopro11mini-rev3-impulserc-apex-evo-15deg-st... .stl



bolted-gopro11mini-rev3-impulserc-alien-15deg-std4-... .stl



bolted-gopro11mini-rev3-impulserc-micro-apex-15deg-... .stl



bolted-gopro11mini-rev3-impulserc-apex-15deg-std4-a... .stl



iFlight

5 files



bolted-gopro11mini-rev3-iflight-std-x15-nazgul-s15-... .stl



bolted-gopro11mini-rev3-iflight-chimera-6-7-15deg-s... .stl



bolted-gopro11mini-rev3-iflight-bob57-15deg-std4-fo... .stl



bolted-gopro11mini-rev3-iflight-titan-dc5-15deg-std... .stl



bolted-gopro11mini-rev3-iflight-nazgul-v2-o3-15deg-... .stl



FPVCycle

3 files



bolted-gopro11mini-rev3-fpvcycle-sonicare-15deg-std... .stl



bolted-gopro11mini-rev3-fpvcycle-glide-std-15deg-st... .stl



bolted-gopro11mini-rev3-fpvcycle-glide-15deg-std4-a... .stl



GepRC

2 files



bolted-gopro11mini-rev3-geprc-mark5-15deg-std4-auto... .stl



bolted-gopro11mini-rev3-geprc-crocodile-7-15deg-std... .stl



TBS

2 files



bolted-gopro11mini-rev3-tbs-source-one-v5-15deg-std... .stl



bolted-gopro11mini-rev3-tbs-source-one-v1-3-15deg-s... .stl

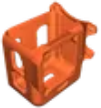


Piratframe

2 files



bolted-gopro11mini-rev3-piratframe-sloop-v3-15deg-s... .stl



bolted-gopro11mini-rev3-piratframe-hook-v2-15deg-st... .stl



SupaFly

3 files



bolted-gopro11mini-rev3-supafly-flipmode-2022-15deg... .stl



bolted-gopro11mini-rev3-supafly-juicemode-v1-31w-15... .stl



bolted-gopro11mini-rev3-supafly-juicemode-2-24w-15d... .stl



Rotor Riot

6 files



bolted-gopro11mini-rev3-rotor-riot-skyliner-mk3-15d... .stl



bolted-gopro11mini-rev3-rotor-riot-hd1-15deg-std4-a... .stl



bolted-gopro11mini-rev3-rotor-riot-cl1-15deg-std4-a... .stl



bolted-gopro11mini-rev3-rotor-riot-cl2-15deg-std4-a... .stl



bolted-gopro11mini-rev3-rotor-riot-skyliner-origina... .stl



bolted-gopro11mini-rev3-rotor-riot-bubby-moxy-15deg... .stl



Lumenier

3 files



bolted-gopro11mini-rev3-lumenier-qav-r-2-15deg-std4... .stl



bolted-gopro11mini-rev3-lumenier-qav-s-jb-15deg-std... .stl



bolted-gopro11mini-rev3-lumenier-qav-s-johnny-15deg... .stl



Diatone

2 files



bolted-gopro11mini-rev3-diatone-taycan-15deg-std4-a... .stl



bolted-gopro11mini-rev3-diatone-roma-f5-v2-15deg-st... .stl



bolted-gopro11mini-rev3-supafly-syncmode-15deg-std4... .stl

☐ literally 100's of other frame designs are available! See main description for steps.

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