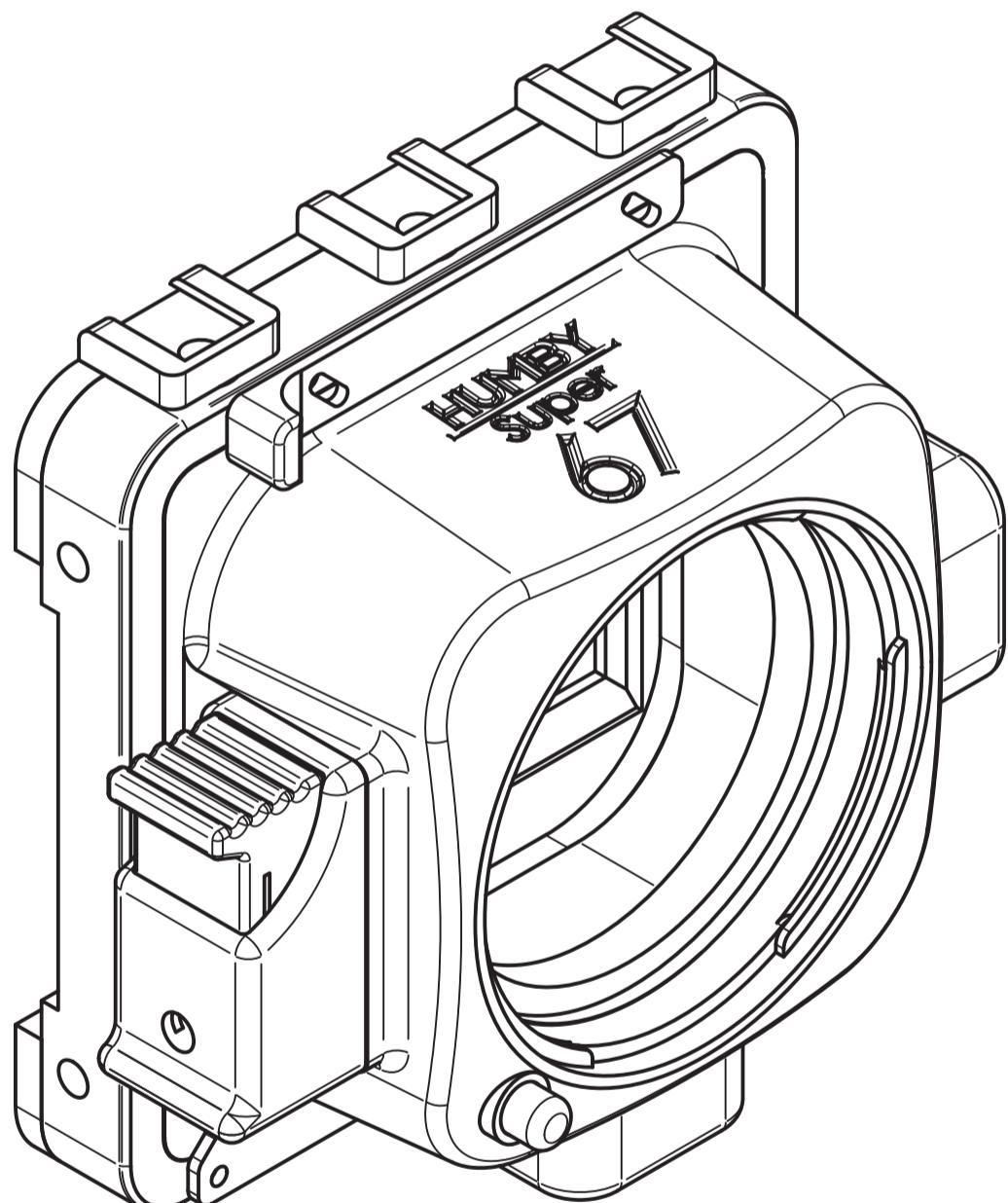


HUMBY

Super

67



User Manual

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Social and community

[Instagram](#)



[Discord](#)



Contact:

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Questions related to assembly/printing will be ignored

About the project

My name's Damien "hazard" Humby, I'm a Norwegian Product designer and camera enthusiast. I got into analogue photography, 3D printing and CAD back in 2018 and with only 2 years of experience and practice I created the Argent eye and Super 67 cameras to be my workhorses.

The Super 67 is my second Open-source 3D printable camera and serves as a more streamlined version of my first camera, the argent eye. The super 67 takes press lenses and RB67 backs. The body allows for the swapping of lens cones if you wish to create custom lens cones for large format lenses or pinholes.

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Support the project

as a product designer the democratization of technology and availability of knowledge is important to me. I want as many people as possible to be able to experience the joy of Analogue photography and 3D printing as I have. This project is perfect for those who teach photography to the next generation as it's easy to print, easy to use and gives great insight into both 3D printing and photography.

If you want to support the project, consider donating via the links below or share the project with others so we can grow a community around this open-source project.

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Bill of materials

Screws:

4x		M3x12
20x		M3x8

Inserts:

24x		Ruthex M3 Ø4.60x5.70
6x		Ruthex M4 Ø7.10x9.50
2x		1/4"-20 Ø0.316" x 0.312"

For the screws it's recommended to use countersunk m3x12 screws on the **graflok latches** But low profile buttonhead screws will work in a pinch. For the rest of the body the choise of screw is up to you as long as the threads are 8mm long.

For the inserts, it's important they have both **pull-out resistance** and **Torque-out strength** as both of these forces are being put on the inserts. if you buy cheap chinese inserts you will experience pull-out with the amount of tightening required to assemble the camera, so I recommend buying Ruthex inserts(not sponsored) or similar inserts from Mcmaster and carr(not sponsored) that also come with **Guides** on the tip for easy insertion.

2mm foam or felt

To light seal the body you'll need either Adhesive foam or felt so that no light can leak into the camera body via the front or back of the body.

Pen spring

yup, a pen spring. just break open a pen and put the spring inside the button of the bayonet mount.

Mamiya press lens and RB67 film back

The super 67 is just a camera body, so in order to operate it you'll need a basic **mamiya press lens**. Pick short focal lengths if you plan to rely solely on Zone focusing or long focal lengths if you have a rangefinder. For taking pictures you'll also need a **Mamiya RB67 Film back** since you need something to hold the film after all.

I recommend looking for them on Ebay as they're readily available internationally.



Print settings

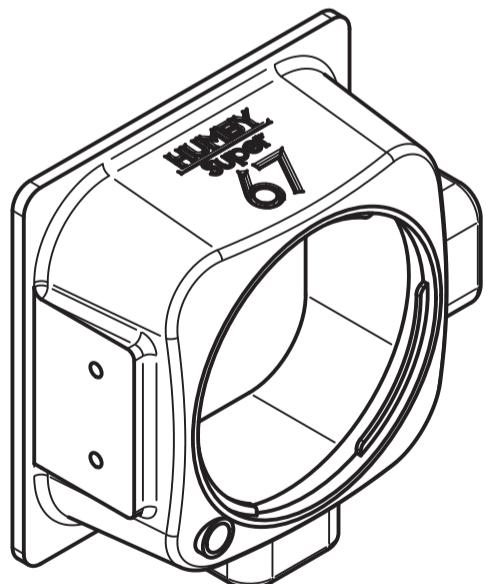
When it comes to printer settings, it really comes down to your printer and the materials you use, so please make yourself familiar with your slicer and printer as I'm not here to teach you how to use tools. You are free to use any print quality you want, as the key here is to avoid light leaks.

It's recommended that you print in the most solid black you can find, as other colors will be translucent and fog your film to the point where there's no image.

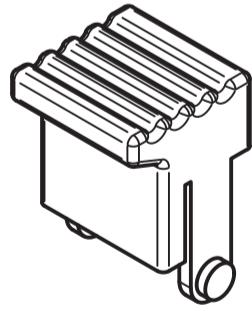
to bulletproof your prints against pesky photons, either **increase the amount of perimeters** and/or **Increase infill to 40%** or higher in order to block as much light as possible and to avoid translucent prints. You can also **paint the inside** of the camera with primer and matte black paint **if you want to print in other colors.**

Supports

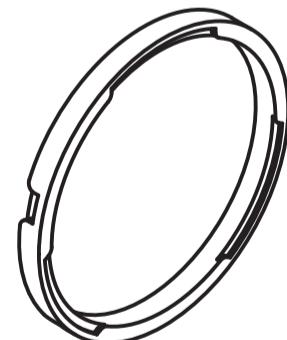
When designing something that's 3D printable, the top priority is always to avoid supports, but that often compromises the Aesthetics of the product. I've tried to minimize the amount of parts that require supports but there are a few that will not print without supports:



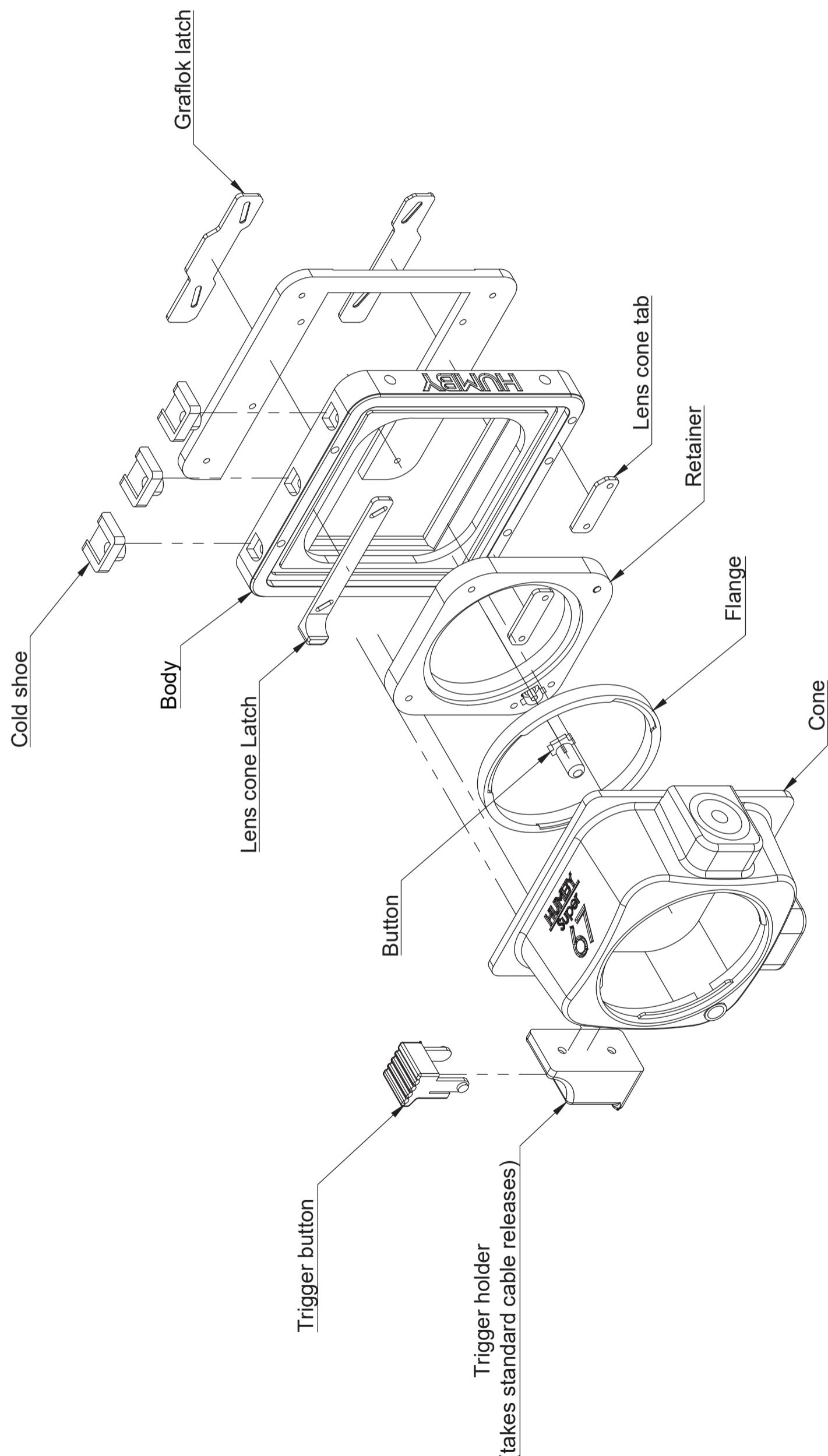
The cone needs supports to be printed properly



The button can be printed upside down to avoid using support, but it will impact the finish of the button.

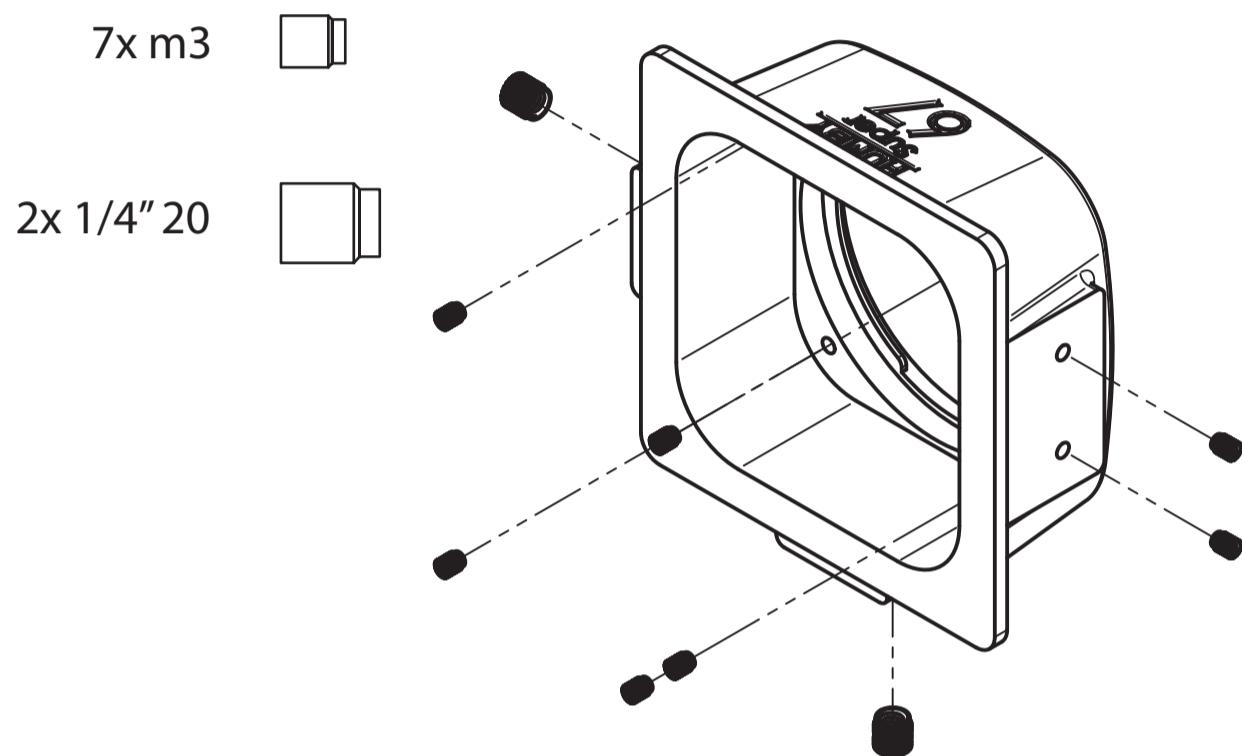


Use supports for better overhangs. Supports simply improve quality.

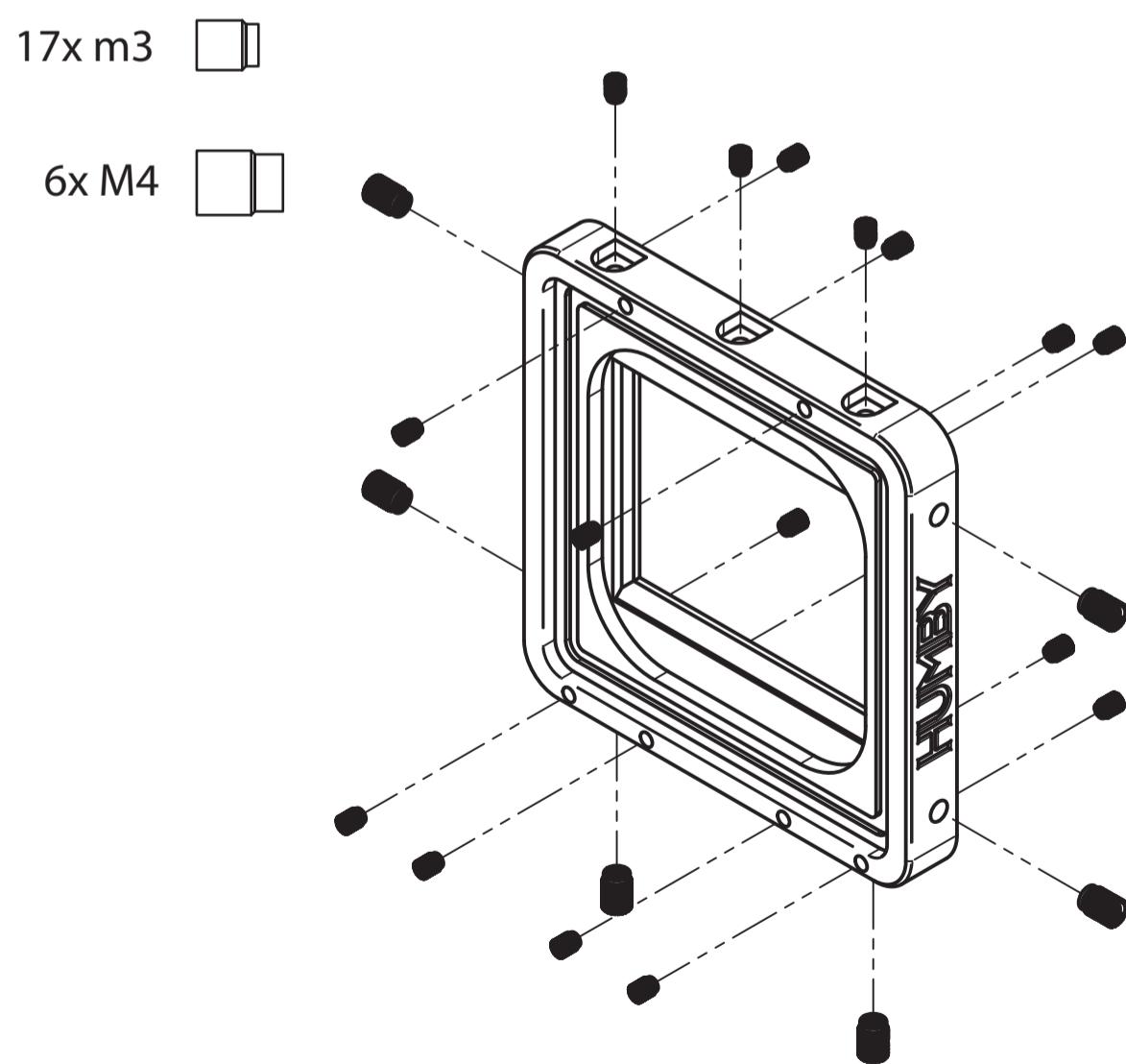


Inserts

Cone:



Body:



Light seals

In order to prevent light leaks you'll need to put **2mm foam or felt** in the grooves on the body **where the cone and film back interface with the body**. You may be able to get away with only light sealing the graflok side, but to be on the safe side it's recommended that you do light seal both sides of the body.

Examples:

