



DJI O3 FPV Kit for RC Car (FreeCAD) (updated)

[VIEW IN BROWSER](#)

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Summary

mounts for O3 FPV on smaller scale RC cars

[Hobby & Makers](#) > [RC & Robotics](#)

Tags: [wltoys](#)

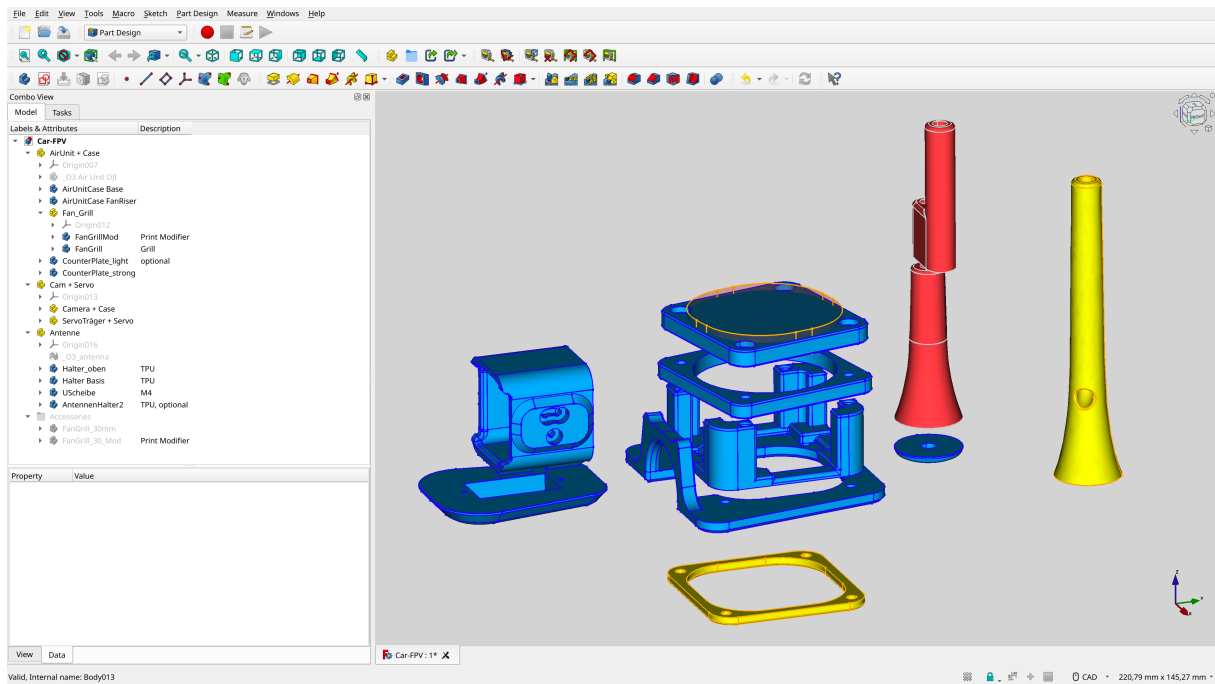
To start with FPV cars, I chose the small WLToys 124007 1:12 buggy, which is cheap but robust and fast enough...

The case for the O3 camera is designed to be mounted on top of a standard 9g servo. The servo is connected to the steering channel for pan.

The case for the air unit is bolted to the counterplate, which fits inside the (cut to fit) shell cover. A 40 mm fan is placed upon with a riser for better airflow. The fan grill has a "MOD" STL object to reveal the grid infill in printing.

I made the antenna mast in two parts (fixed by a 4x30 mm nylon bolt) so I can take it apart for easy transportation.

For counterplate and antenna mast I've included alternative models (the yellow ones in the screenshot). I also included a 30 mm grill for the ESC fan, preventing cables blocking the fan.



Printing

All parts displayed in blue are printed in PLA. I took bicolor filament for a nice look. The antenna mast (red) is printed in TPU. For more details see 3mf files attached.

Additional Parts

- some M3 bolts
- 9g servo
- servo splitter cable
- glue (camera case on servo arm; servo holder; counterplate)

Video from the first FPV ride

UPDATE

2023/12/27 — Fan riser updated for better air flow.

Model files





car-fpv-new.fcstd



parts

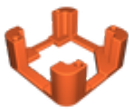
12 files



camcase.stl



servotrager.stl



airunitcase-base.stl



airunitcase-counterplate_strong.stl



airunitcase-fanriser-new.stl



airunitcase-fanriser.stl



fangrill.stl



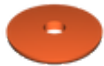
fangrillmod.stl



antennenhalter_oben-tpu.stl



antennenhalter_basis-tpu.stl



uscheibe.stl

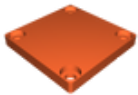


antennenhalter2-tpu.stl

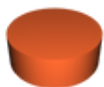


optional_parts

3 files



fangrill_30mm.stl



fangrill_30_mod.stl










airunitcase-counterplate-light.stl



3mf

7 files

	antennenhalter-tpu.3mf
	camcase.3mf
	camcase-bicolor-pla-filament.3mf
	airunitcase-base-counterplate-washer.3mf
	fan_risergrill-new.3mf
	fangrill_30mm.3mf
	servotrager.3mf

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