



Case for DJI Osmo Action 4



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Summary

Multi-material camera case for the DJI Osmo Action 4 action camera



19.42 hrs



1 pcs



0.20 mm



0.40 mm



PET



315 g



Prusa XL

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Tags:

case

dji

djiosmoaction

djiosmoaction4

Generated with this: <https://www.printables.com/model/748647-case-generator>

A transportation case for the Osmo Action 4 camera, complete with “foam” liner. Cutouts fit the camera, the 3-battery charging box, and has room for a short USB-C cable (barely) and/extra flash. The camera cutout will accomodate this lens cover: <https://www.printables.com/model/741410-lens-cap-for-the-dji-osmo-action-4>

This print is massively multimaterial: PETG shell and clasps, TPU liner, PLA supports. Specifically, the liner is printed from Filament PM's super limp TPE88.

Almost print-in-place - two 30mm M3 flat-headed screws and two M3 heat press inserts needed for the hinges. The screws can be button-head or socket head, but countersunk/trapezoidal will not fit this model.

Clasps and liner are print-in-place.

Assembly: Insert the inserts from the outside. Allow to cool, and add a drop of threadlock to the insert. Use a ball-point hex key to insert the screws from the inside. It is a bit inconvenient, to do it this way, but I am afraid of radiated heat from the soldering iron melting the side of the box. Insert the screw until snug, but do not tighten it, it will distort the hinge. The threadlock will keep the screw in place.

The case is made from a surprising number of parts & settings, so use the provided 3MF file for printing, and export STLs from there. I am working on a parametric openSCAD case design, but it is not ready for public use just yet. This also part of the reason why the hinges are not all print-in-place: I want to be able to print cases with a footprint as large as the print bed.

This model is an attempt to combine many of my pet peeves in one:

- Functional
- Multi-material, as opposed to only multicolor (it is time to show the Bambu owners what an actual toolchanger can do :-))
- Dissimilar material supports (again, for you, AMS people!)
- Use of the slicer to easily do what would otherwise be crazy hard (the “foam” being gyroid infill with no walls)
- Designed parametrically in OpenSCAD (which I love) instead of Fusion 360 (which I detest)

Model files

case.3mf



Print files



case_04n_02mm_flexpetgpetgpla_xlis_19h25m.bgcode

⚙ PET ⚙ 0.40 mm ⚙ 0.20 mm ⌚ 19.42 hrs ⚖ 315 g 🖨 Prusa XL

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