



Kayouflip 5" - TPU Collection

 Kayou Frames

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Summary

The complete official TPU Collection for the Kayouflip 5" by Kayou Frames.

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Tags: [kayouflip](#)



This page is a **Wiki** regrouping all the necessary informations about **3D Printable TPU Files for the Kayouflip 5"**. All of the .stl files are available in the "Files" tab.







Join us on Discord !

For any specific request/question, **feel free to contact us directly on [Kayou Frames Discord Server](#)**



Kayou Frames Ecosystem

Welcome to the Kayou Frames ecosystem ! The **Kayoudur 5" (KD)** and the **Kayouflip 5" (KF)** share the exact same deck dimensions, so most of the Prints are **100% inter-compatible** between the 2. **Pick the frame that suits you the best ... or both !**

	◆ VS ◆	
Kayoudur		Kayouflip
Bando	Suggested use	Open Field
Urban environments, concrete, any spot where you'll crash pretty hard		Fields, forests, any spot where lightweight is appreciated
158g	Weight	121g
Focused on durability, allows for precise and aggressive flying		Focused on weight saving, allows for locked freestyle and strong ejets
 6mm	Arms Thickness	 5.5mm
Carbon's thickness ensures a significant part of the Frame's toughness and strength !		
 3mm	Deck Thickness	 2.5mm

The plates thicknesses and standoffs heights **vary slightly between the 2 frames** making **some or the prints not intercompatible** :

- **KD** has **6mm arms** and **3mm body plates** for a total **body height of 29mm**,
- **KF** has **5.5mm arms** and **2.5mm body plates** for a total **body height of 28mm**,

All of the files listed in this collection's "files" tab fits the Kayouflip, but we made it simple with **files prefix** :

- **"KF"** + _print_name.stl : Print fits the **Kayouflip**,
- **"KD-F"** + _print_name.stl : Print fits the **Kayoudur and the Kayouflip**.

HD Camera mounts (GoPro etc)

They are all **100% intercompatible** between the **Kayoudur** and the **Kayouflip**.

Front Bumper-FPV Camera Mount

1 screw per side, 2 screws per side, locked tilt solutions, you'll find everything you'll need.

Backpack

Backpacks are available with multiple options from SMA pigtail to GPS mount.

Low Profile TPU Kit

What does "Low Profile" means ?

If your gear allows it (on an Analog build for example), you can **lower the deck height** by reducing the standoff's length by 5mm going from 20 to 15mm.



This mod slightly **lowers the center of gravity** and **increases the rigidity** of the standoffs. It's also a great way to **flex on HD pilots** carrying a VTX bigger than their stack.

Shopping list :

For convenience reasons, Low Profile hardware **is not available for direct sale through our website**. We have, however, made a **shopping list** so that you can buy **all the required hardware** by yourself :

- **M3x16mm Countersunk Heads Stack screws** (original ones are 20mm and will be too long)

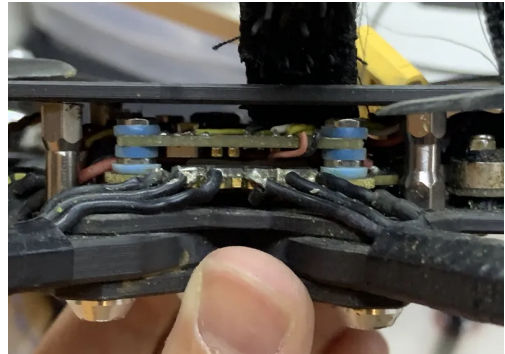
- **4x 15mm M3 Standoffs (rear)**, size is standard, you'll find some easily
- **4x 23mm M3 Standoffs (back)**, size isn't standard, if you don't own a CNC you might have to get 25mm ones and grind them yourself.
- **M3 Aluminum nuts** to adjust your stack height, you'll have to slam it to fit in the 15mm rear height
- **M3 Gummies** also to adjust your stack height

Slamming the stack :

Most consumer stacks are meant to fit in a 20mm-high deck (the standard Kayoudur height).

The trickiest part of the Low Profile mod is to **slam your stack to fit in a 15mm deck height**.

You'll need to **rework the way you stack** the Fc and the Escs with **nuts** and **gummies**, eventually **removing your esc shield, rotating the pcbs** : some are easier than others but **every stack can be slammed**.



DJI O3

The DJI O3 had us to **rethink of solutions to fit a gigantic cam and a gigantic VTX** in a **super tight frame** designed for Standard gear - but we did it !

2 Options available :



Lightweight

≈10g (depending on the tilt)



Heavy

≈15g (depending on the tilt)

Camera mount installation :

DJI O3 Camera is too large to fit between the front standoff and **Installation does require some additional hardware :**

- **4xM3 Square nuts**



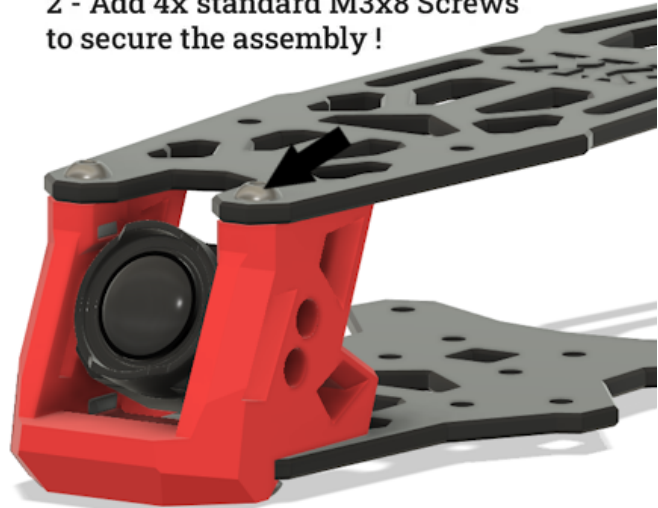
The print allows you to get rid of the standoffs and to secure the assembly with standard M3x8 Screws.

Print at 100% infill for maximum rigidity, you'll end up with **great camera protection** and **clear FOV**.

1 - Insert the 4xM3 Square nuts into their slots in the Print



2 - Add 4x standard M3x8 Screws to secure the assembly !



Model files



HD Camera mounts (GoPro etc)

8 files



kd-f_universal_mount.stl

☐ Universal GoPro style Mount, not recommended for Freestyle flying but it's here if needed



kd-f_dji_osmo_action_3-4_30deg.stl

☐ DJI Osmo Action 3/4 Mount, 30deg Tilt



kd-f_dji_osmo_action_2_30deg.stl

☐ DJI Action 2 Mount, TBS ND Filter slot, 30deg Tilt



kd-f_hero_11_mini_25deg.stl

☐ GoPro Hero 11 Mini Mount, 25deg Tilt



kd-f_hero_9-10-11-12_25deg.stl

☐ GoPro Hero 9/10/11/12 Mount, TBS ND Filter Slot, 25deg Tilt



kd-f_hero_8_25deg.stl

☐ GoPro Hero 8 Mount, TBS ND Filter Slot, 25deg Tilt



kd-f_hero_5-6-7_30deg.stl

☐ GoPro Hero 5/6/7 Mount, 30deg Tilt



kd-f_lipo-guard.stl



Arm Bumper

2 files



kf_arm_standard.stl



kf_arm_lightweight.stl



Front Bumper-FPV Camera Mount

9 files



kf_bumper_19mm.stl

☐ The standard KF Camera Bumper. Fits 19mm FPV Cameras (Caddx Ratel, Nebula Pro, etc)



kf_bumper_14mm.stl

☐ Fits 14mm FPV Cameras (Nebula Pro Nano, Caddx Ant etc)



kf_bumper_locked25.stl

☐ KF Camera Bumper with locked tilt. Fits 19mm FPV Cameras (Caddx Ratel, Nebula Pro, etc)



kf_bumper_locked30.stl

☐ KF Camera Bumper with locked tilt. Fits 19mm FPV Cameras (Caddx Ratel, Nebula Pro, etc)



kf_bumper_locked45.stl

☐ KF Camera Bumper with locked tilt. Fits 19mm FPV Cameras (Caddx Ratel, Nebula Pro, etc)



kf_dji_cam_bumper_fixed15.stl

☐ KF Camera Bumper with locked tilt for the original DJI Air Unit v1 Camera (2 screws per side)



kf_dji_cam_bumper_fixed20.stl

☐ KF Camera Bumper with locked tilt for the original DJI Air Unit v1 Camera (2 screws per side)



kf_dji_cam_bumper_fixed25.stl

☐ KF Camera Bumper with locked tilt for the original DJI Air Unit v1 Camera (2 screws per side)



kf_dji_cam_bumper_fixed30.stl

☐ KF Camera Bumper with locked tilt for the original DJI Air Unit v1 Camera (2 screws per side)



Capacitor Mount

1 file



kf_cap_mono.stl



Receiver Mount

1 file



2020-rx-mount.stl

☐ Universal 20x20 Receiver mount, fits ELRS EP1, Crossfire Nano RC etc.



Backpack

3 files



kd-f_backpack_standard.stl

☐ The OG Kayouflip Backpack, for CRSF Immortal T Antenna and SMA Pigtail



kd-f_backpack_gps.stl

☐ Fits 22mm sized GPS (BN220 etc)



kd-f_rear_wingstl.stl

☐ Should this be considered as a Backpack ?



Low Profile TPU Kit

5 files



kf_lp_bumper19mm.stl

☐ Low Profile Standard front Bumper/FPV Camera Mount



kd_lp_bumper_locked30stl.stl

☐ LP Camera Bumper with locked tilt. Fits 19mm FPV Cameras (Caddx Ratel, Nebula Pro, etc)



kd_lp_bumper_locked45stl.stl



kd-f_lp_capa.stl

☐ Low Profile Capacitor Mount. Had to mount it horizontally otherwise it wouldn't fit.



kf_lp_backpack.stl

☐ Low Profile Backpack, fits a Linear (Whip) VTX Antenna and an ELRS T-Style Antenna



DJI O3

6 files



kf_o3_lightweight_25deg.stl

☐ DJI O3 Camera Mount. Needs 4xM3 Square nuts, check Description for instructions.



kf_o3_lightweight_30deg.stl

☐ DJI O3 Camera Mount. Needs 4xM3 Square nuts, check Description for instructions.



kf_o3_heavy_25deg.stl

☐ DJI O3 Camera Mount. Needs 4xM3 Square nuts, check Description for instructions.



kf_o3_heavy_30deg.stl

☐ DJI O3 Camera Mount. Needs 4xM3 Square nuts, check Description for instructions.



kdf_o3_base.stl

📄 DJI O3 Air Unit Mount



kdf_o3_antenna.stl

📄 DJI O3 Air Unit stock Antenna Mount



Walksnail Avatar Pro Dual (v3)

3 files



kd-f_walksnail_v3_mount.stl



kd-f_walksnail_v3_backpack_crsf.stl



kd-f_walksnail_v3_backpack_elrs.stl



Walksnail Avatar HD VTX V2

4 files



kd-f_ws_v2_bracket_1.stl



kd-f_ws_v2_bracket_2.stl



kd-f_ws_v2_backpack_elrs.stl



kd-f_ws_v2_backpack_crsf.stl

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