

Opale Paramodels



Rescue 1.8/2.5/4.0/6.0/12.0/15.0

Mounting on Multirator

User's Guide

Please read carefully this manual before using your equipment for the first time.

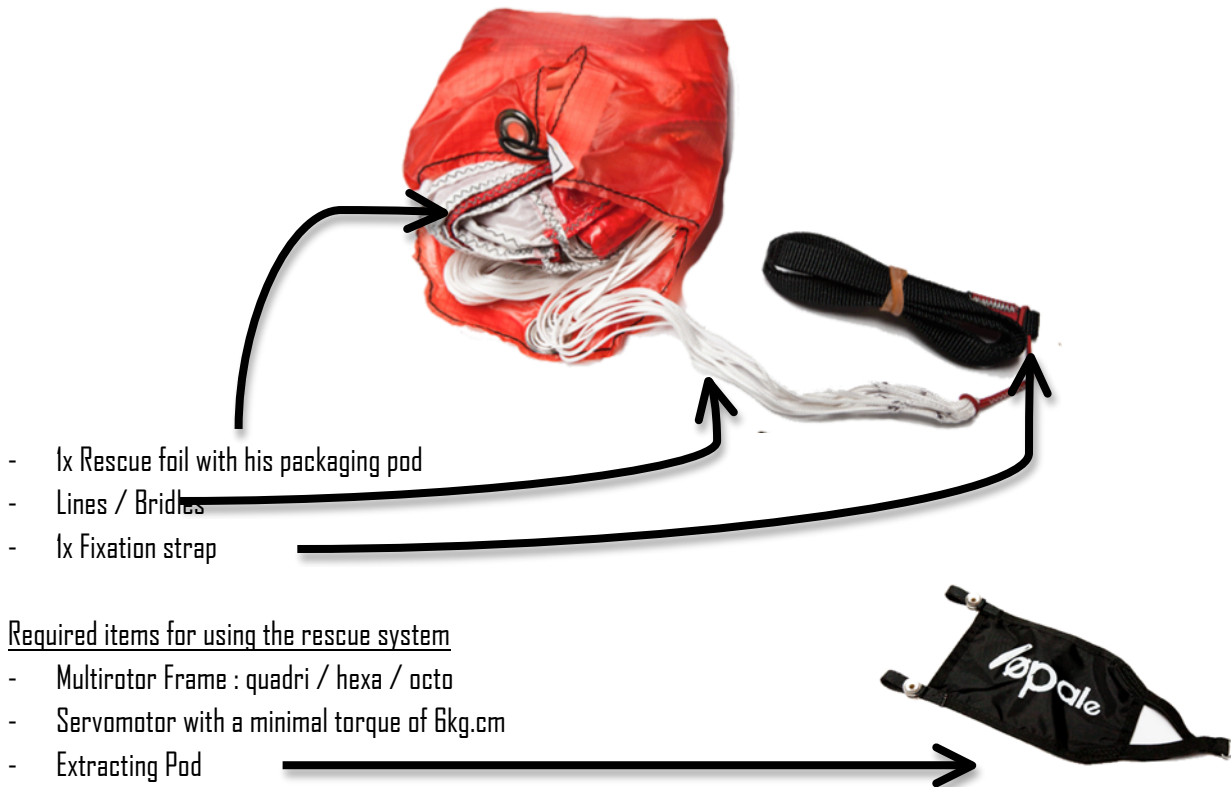
Safety Information

You should be properly insured according to the country regulation you are using our equipment in. You hereby accept the inherent risk of flying radio-controlled models and taking aerial pictures and videos. Using our equipment in a bad way may increase risks. Neither Opale-Paramodels nor any other seller will be liable for any damage caused by any accident whatever the circumstances are. The way our equipment is used is incumbent upon the final user, including towards the law.

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1. Kit content



2. Getting your frame ready

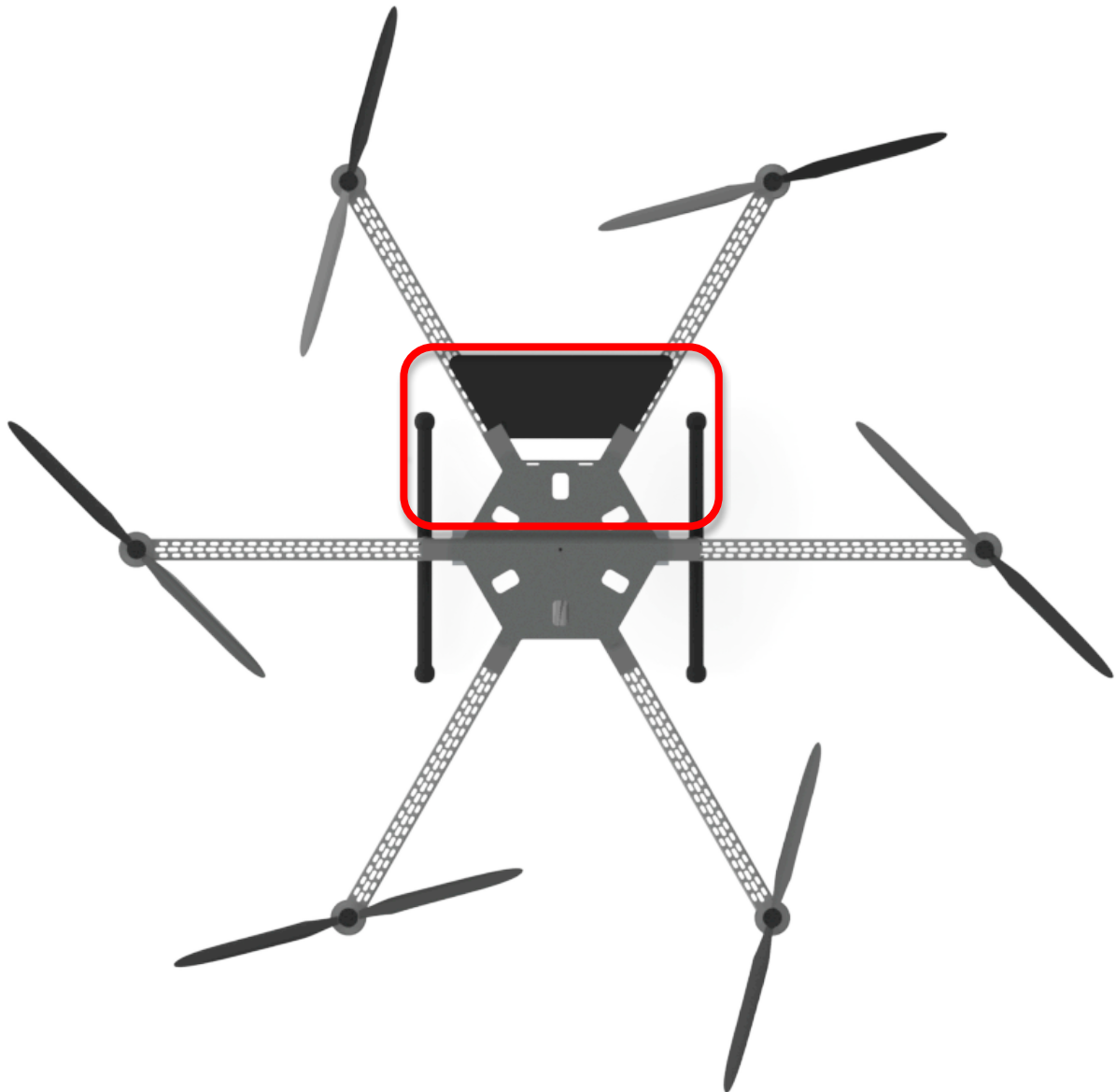
This step deals with the integration of the rescue system on the multirotor frame.

The optimal position of the foil is horizontal. The nearest position from the center of gravity, in order to keep the best flight capacity of your multirotor.

The opening must be down to the parachute falls. It's his own weight which is created the falls.

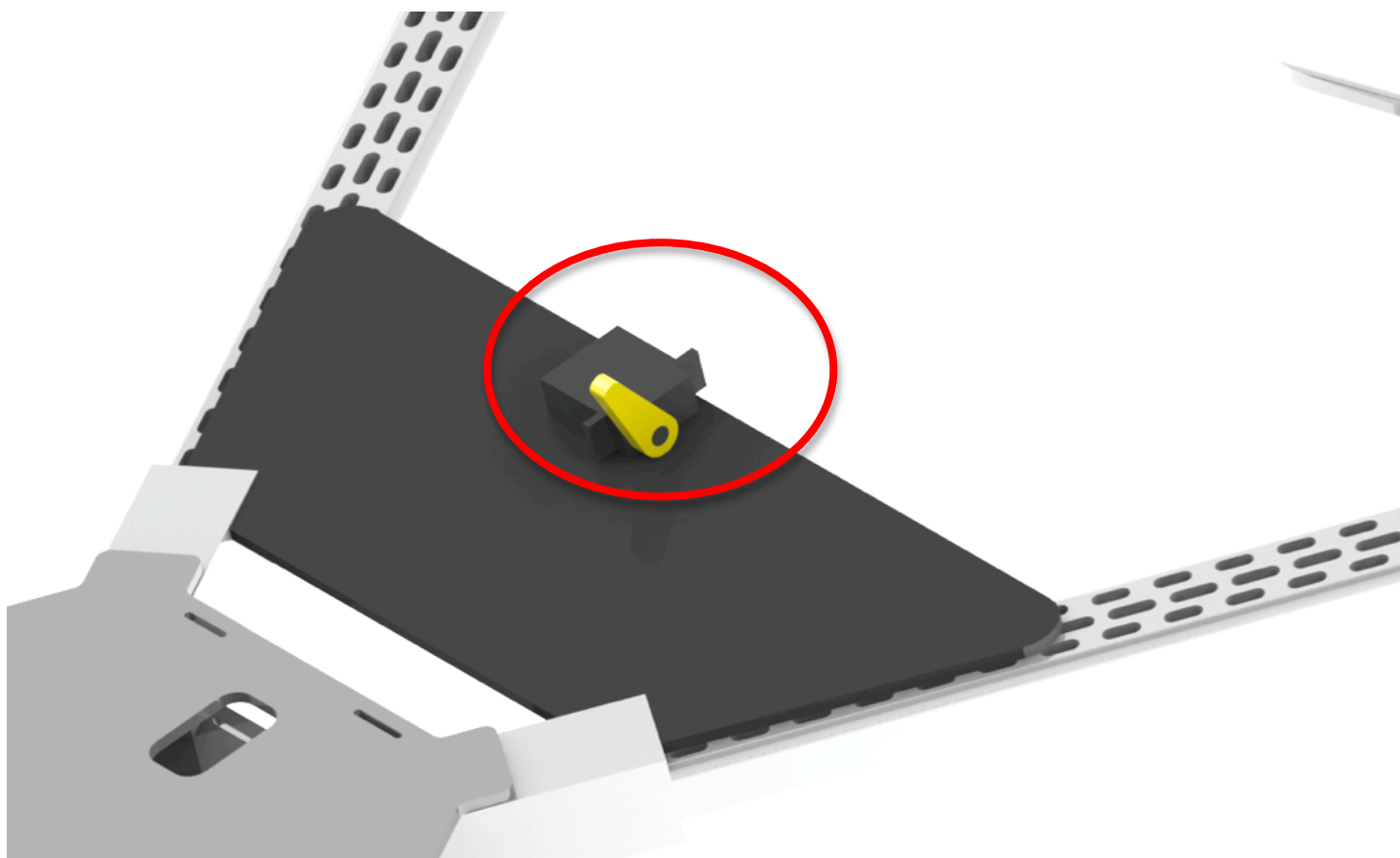
Due to the geometry of the frame, it should be necessary to create a plate where to put the foil, with the servo and the extracting Pod. We highly advise to put this plate between two motors arms, like the pictures which is bellow, at the nearest position of the center of gravity.

Top view



To achieve this plate trapezoidal, you can use PVC, or a plate of glass fiber mixed with epoxy. Be sure to secure it well. It's important that it will not disengaged. Its geometry will vary depending on the shape of the frame, if it comprises 4/6 or 8 engines.

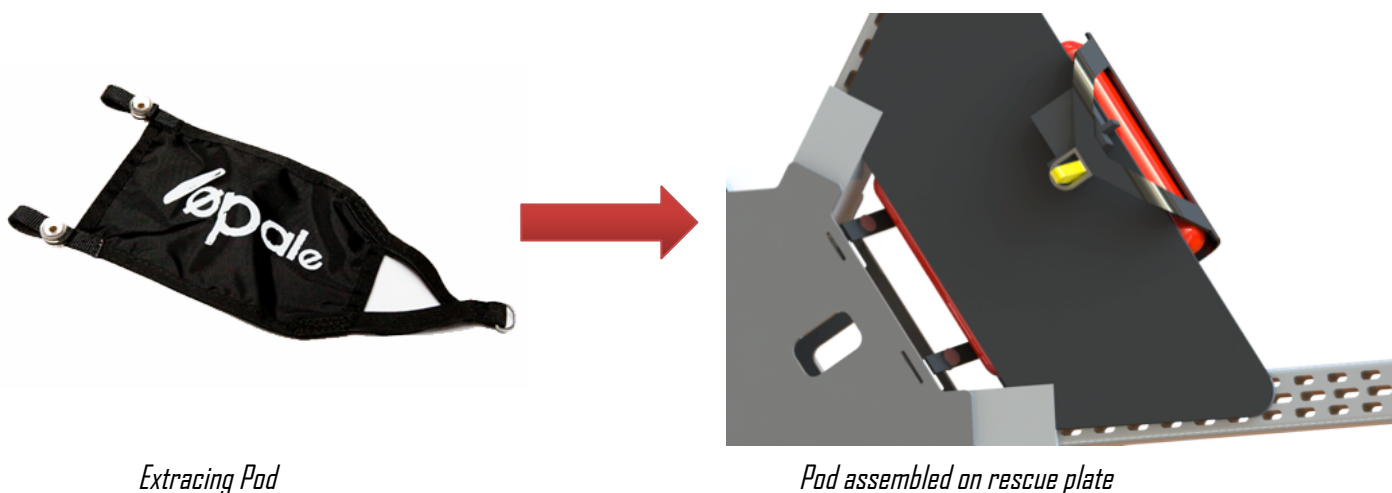
Then you have to install the opening servomotor. It must be placed at the center of the plate, far more than outward, as in the image below. Secure it with plastic collars, or sandwiched by an additional plate. Then it must be stopped.



The locked position of the actuator corresponds to a vertical rudder. The open position corresponding to a horizontal lifting beam, directed towards the rear.



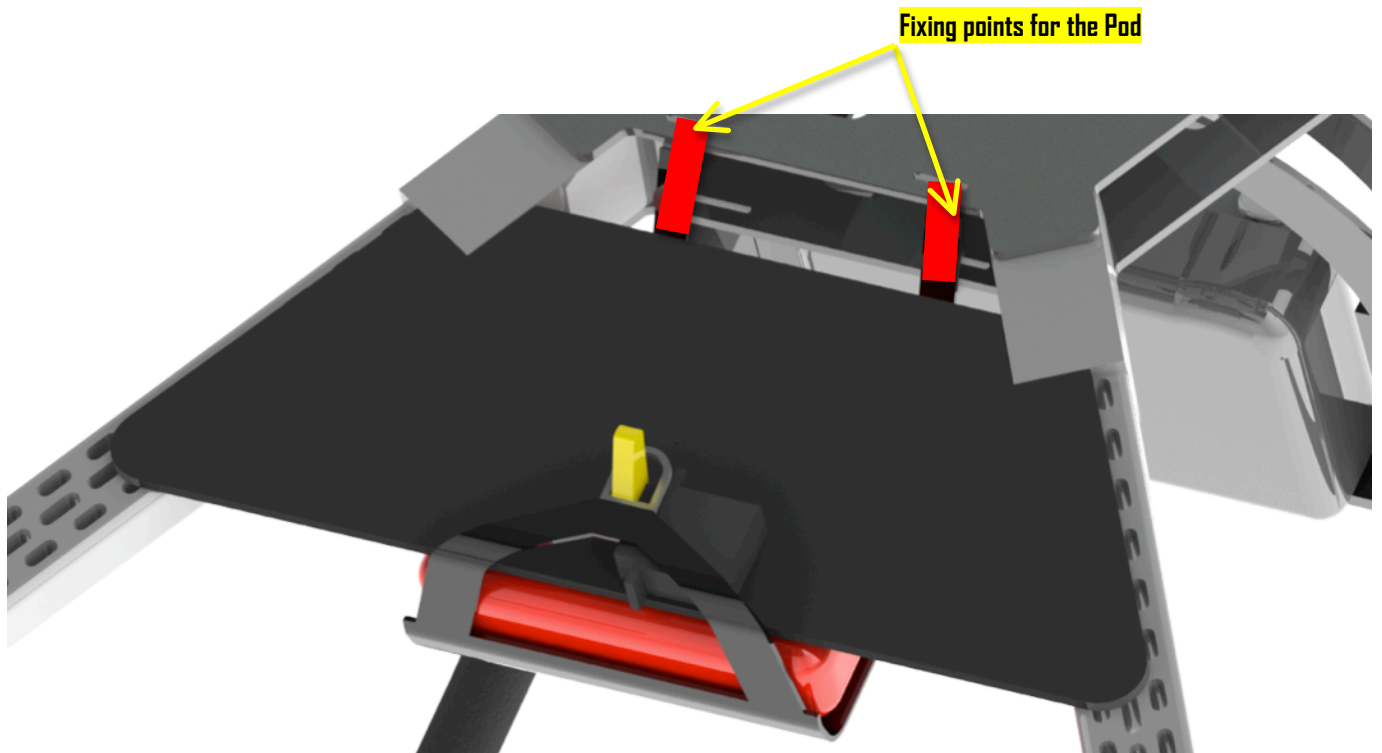
After, you has to get the right extracting pod size depends on the rescue foil you have (see the feature of your parachute)



Extracing Pod

Pod assembled on rescue plate

If your frame is not equipped with hole for attaching the pod, drill 2 holes with a distance corresponding to the distance between the two fixing points of the Pod.



The Parachute (marked in red) must be placed between the bag and plate.

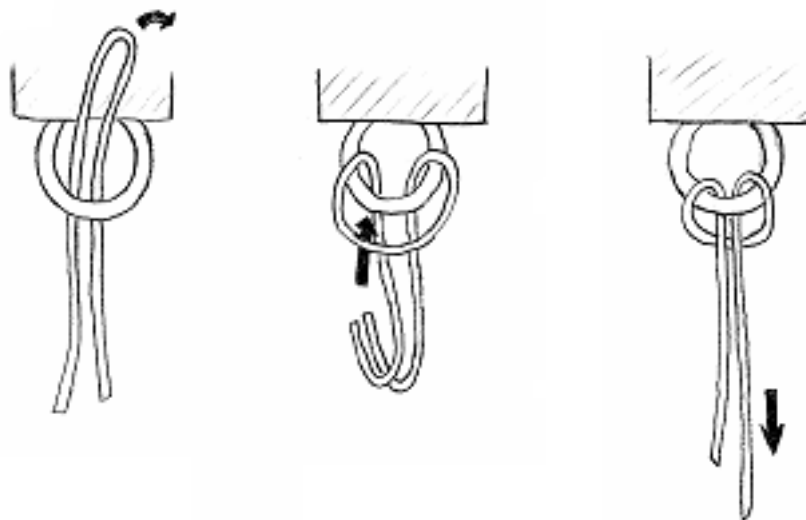


Fixing the parachute can be done in several ways:

- above the center of gravity in order to get a horizontal angle
- on one arm to obtain a vertical angle

This choice will be made according to your specifications and configuration of the machine (the presence of a gimbal or not)

You must enter the black strap, pass it through the hole where you want to attach the parachute. Then pass the parachute in the loop formed by the black strap to make a lark's head, as the diagram below



4. Parachute folding

It is really important that you properly fold the parachute every single time you use it to ensure it will be open quickly and be efficient the very next time you need it.

First, please spread the parachute and make sure no lines are tangled up, and then inflate it.

Then spread it again and gather all the lines. Hold them in position using some ballast if possible.



Separate every single fabric panel. Evenly distribute them to the right and the left (5 on each side).



Then folds the panels the way shown on the picture below starting with the left panels, then do the exact same things for the right ones.



Now we have the short side of the parachute folded, it is now time to fold it 3 times to get it fit in the container.



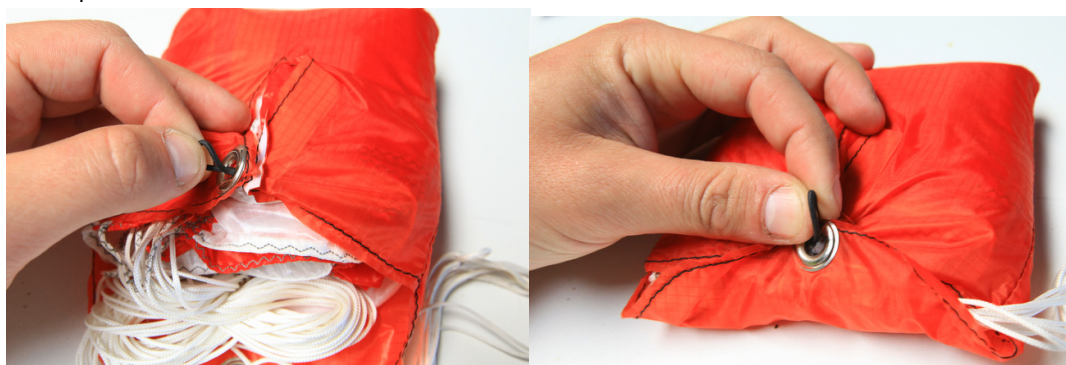
The trailing edge of the parachute should be positioned on the opening side of the container.



Grab the lines and wind them round your fingers till it looks like an 8 in order to store the lines in the container. Then house the lines inside the container just in front of the parachute's trailing edge.



Use the black elastic loop to close the container, as shown below.



Once the container is closed, use 3 or 4 lines to fully make sure it will stay closed till you want it to open.



Please often check that the container is well closed and kind of locked thanks to the lines. Do not hesitate to ventilate and unfold your parachute if it is stored wet.

Important notice referring on the Parachute folding:

From 1.8 to 2.5 sqm, we highly recommend to not package the rescue inside the Red pod. Due to his light weight, the opening time could be increase. We advise to remove this red pod, and to set up directly the rescue foil between the multirotor plate and the extracting pod.