



Rescue Kit DJI S900

User's Guide

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

Thanks for having chosen an Opale-Paramodels product.

We truly believe this radio-controlled rescue system is going to give you the most advanced safety technology on your multicopter. This user's guide content includes all the informations you need to get your system read and to ensure you will take good care of it. A good knowledge of your equipment will allow you to safely make the most of its performances!

Thanks for giving this manual to the new owner in case you decided to sell you radio-controlled paraglider.

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. 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.

Summary

1. Kit contents
2. Preparing the rescue parachute
3. Assembling of the ejection system and installation of the parachute
4. How to package the parachute

1. Kit Contents



- 1x Ejection system for DJI S900
- 3x Aramid straps 600mm
- 1x Ejection strap
- 2x Rubber d4
- 1x Extraction Pod L
- 1x 6.4kg.cm servomotor
- 1x 6sqm parachute

ref OPI7702
 ref STR900
 ref STR900
 ref OPI7302
 ref OPI6721
 ref OPI7104

2. Preparing the rescue parachute

Bring the parachute and 3x Aramid straps 800mm.

Assembly the 3x 800mm straps as show on the pictures bellow

One time it's done, your rescue is ready to be placed on the ejection system.



3. Assembling of the ejection system and installation of the parachute

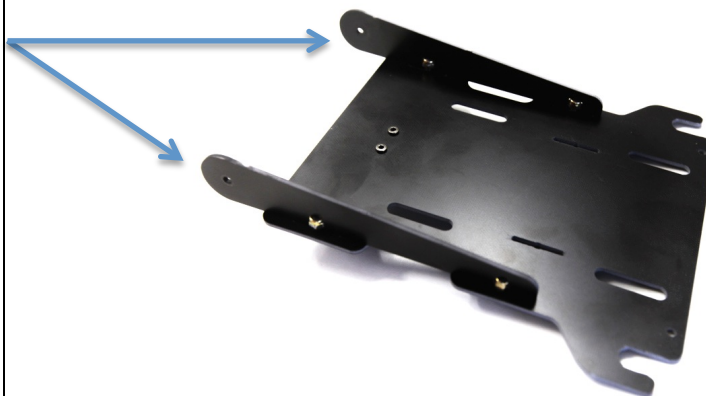
Unscrew the fixation clip which is provided with the original battery holder of the S900



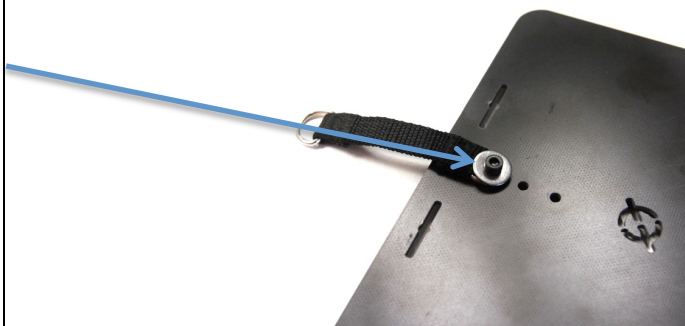
Mount the fixation clip on the new plate by using the original screws.



Assemble the 2 side frames by using 4x CHC M3-8 screws and 4x M3 bolts.

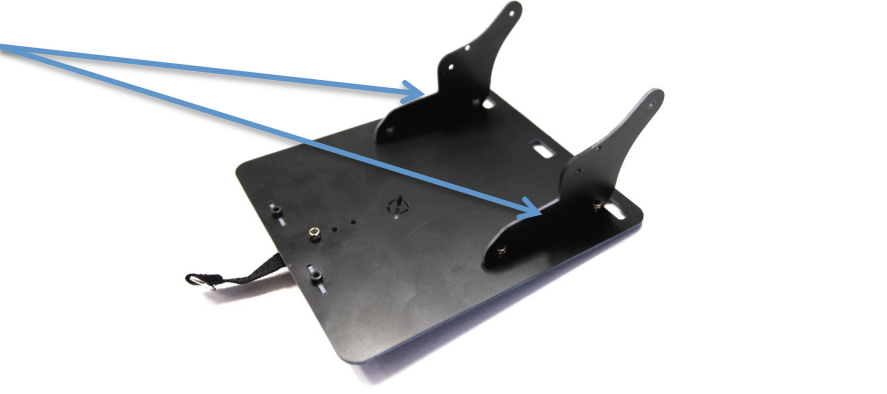
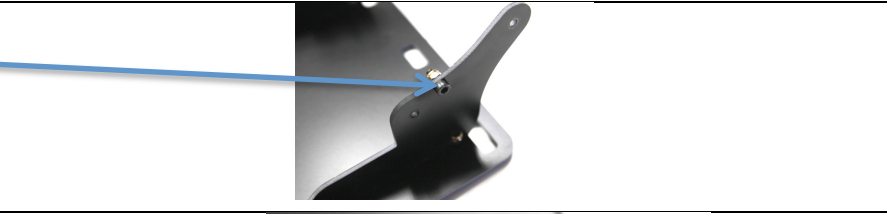
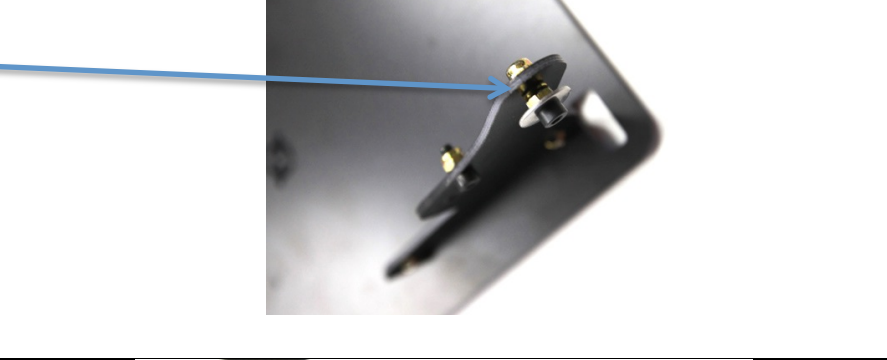
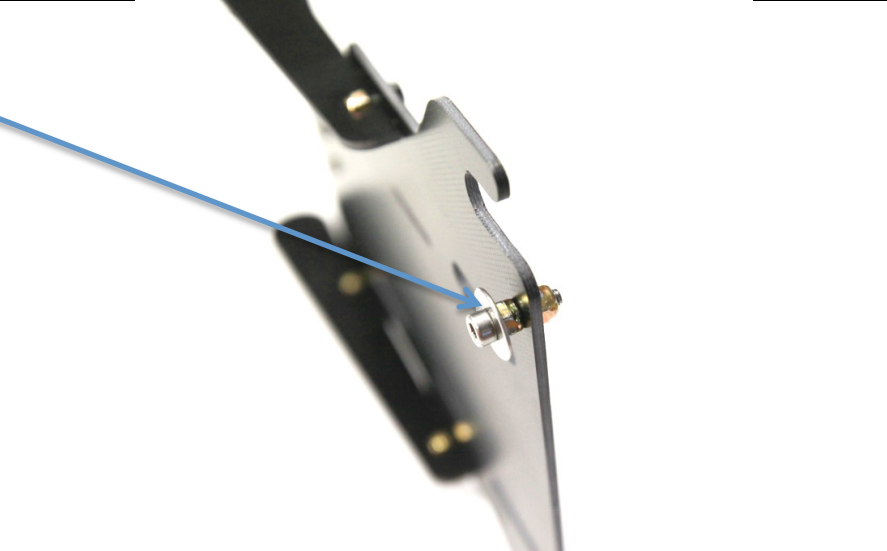
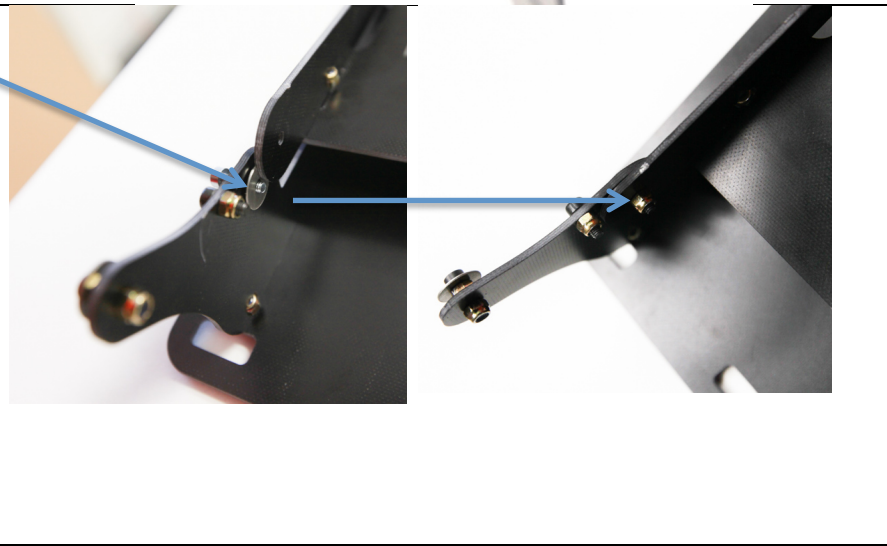


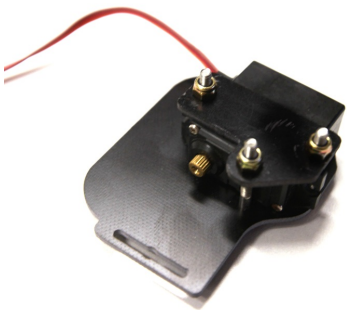
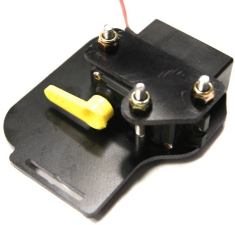
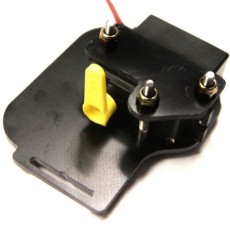
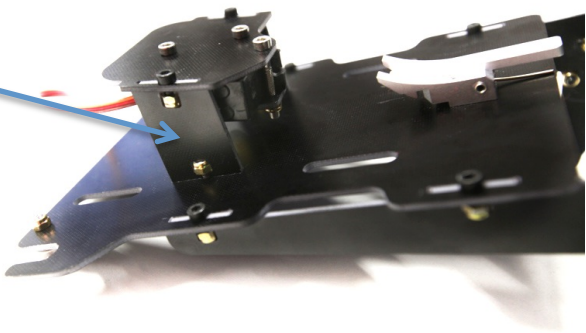
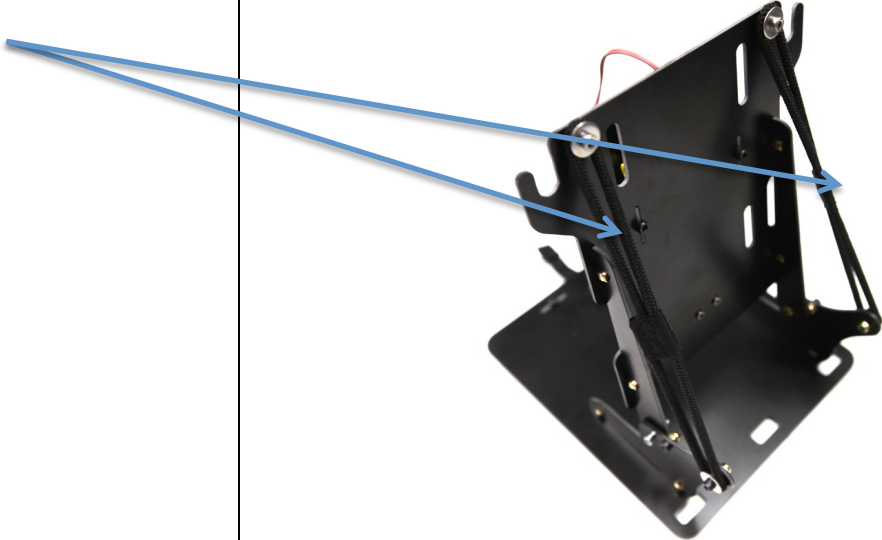
Fix the ejection strap on the ejection plate with a M3-10 screw, a M3 washer and bold. Do it by the smaller ring.



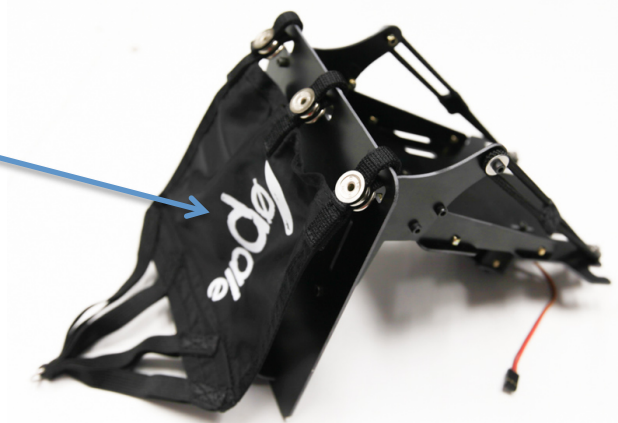
Assemble the upper part on the ejection plate by using 2x CHC M3-8 and 2x M3 bolts



<p>Mount the two sides frame on the ejection plate by using 4x CHC M3-8 screws and 4x M3 bolts.</p>	
<p>Place by side of the 2 sides frames a CHC M3-8 screw with a M3 bolt.</p>	
<p>Use a CHC M3-10 screw, a M3 washer and a 2x M3 bolts. Do the same as shown on the picture and do it once more on the opposite side.</p>	
<p>Same operation with 2x CHC M3-10 screws on the main plate.</p>	
<p>Use a CHC M3-12 screw with a M3 washer and a M3 bolt in order to assemble the ejection plate with the main plate. Do the same operation to the opposite side.</p>	

<p>Mount the servomotor as shown on the picture (without the arm), and use 3x CHC M3-25 screws with 3x M3 bolts.</p>	
<p>Plug the servomotor on the receiver. Set a 2 positions switch on your transmitter where is set the parachute servomotor. ON position : the arm has to be horizontal without touching the plate (then the ring can be free quickly for ejecting the parachute)</p>	
<p>OFF position : the arm has to be vertical. This position status is « system locked ». Then the servomotor keep the ejection plate and the extraction pod in place. Lock the arm by using the special screw which is provided with the servomotor hardware.</p>	
<p>Assembly the two sides plates of the servo holder by using 4x CHC M3-8 with 4x M3 bolts. Please take care to mount it in the right angle direction.</p>	
<p>Install the 2 rubbers d4</p>	

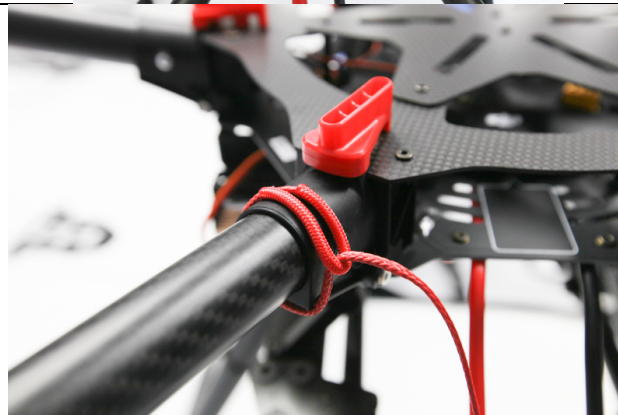
Install the Pod L



Mount the 3x straps on 3 motors arms as shown on the picture.

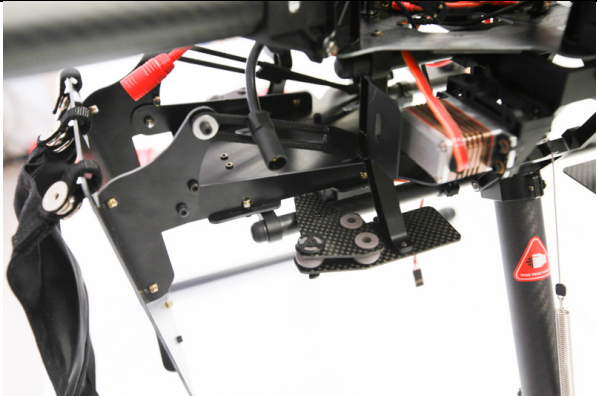
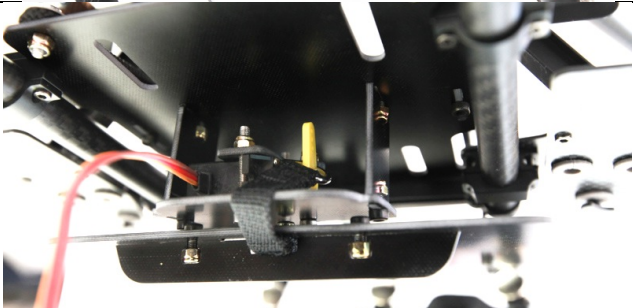
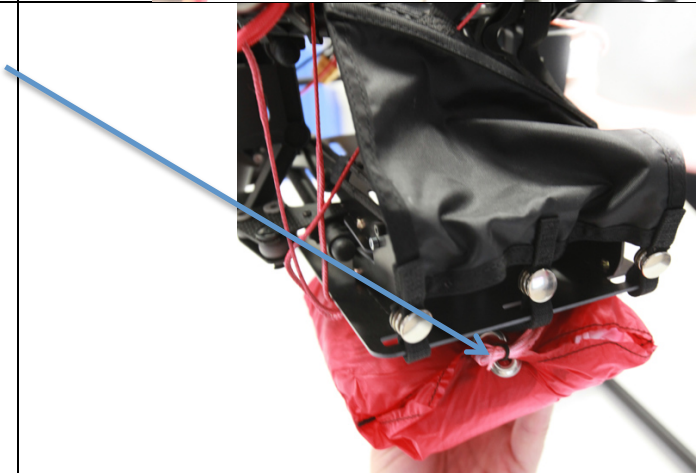
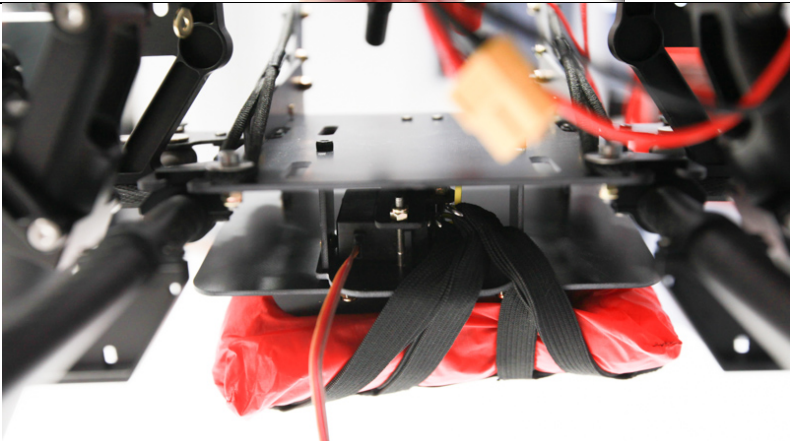


The installation of the straps is without knot. Only doing a loop.



Introduce the ejection system in the S900 frame. It's necessary to rotate the system on the left or right to place it correctly.



<p>Lock the system like the original battery holder.</p>	
<p>Lock the ejection strap on the servo arm. It will be necessary to move the servo arm horizontally for placing the strap, then it can be moved vertically.</p>	
<p>Place the parachute under the ejection place. The eyelet of the packaging pod has to be up and to the back of the system.</p>	
<p>Close the extraction Pod and lock is on the servo arm.</p>	

The system is now ready to be used.

Advised operations to use the parachute system :

- Plug the servomotor on the receiver (not on the flight controller)
- Affect a 2 positions switch on the transmitter
- Set the failsafe on the parachute servo channel on position OPEN (parachute ejected). The motor stop procedure can also be set by the failsafe function of the receiver (according to the right position sticks on the transmitter for having the motor power OFF)

Warning : it's important to try the ejection of the parachute before the first flight. This test can be done without flying. Ensure that any obstacle hinders the opening of the device.

4. How to package the parachute

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.



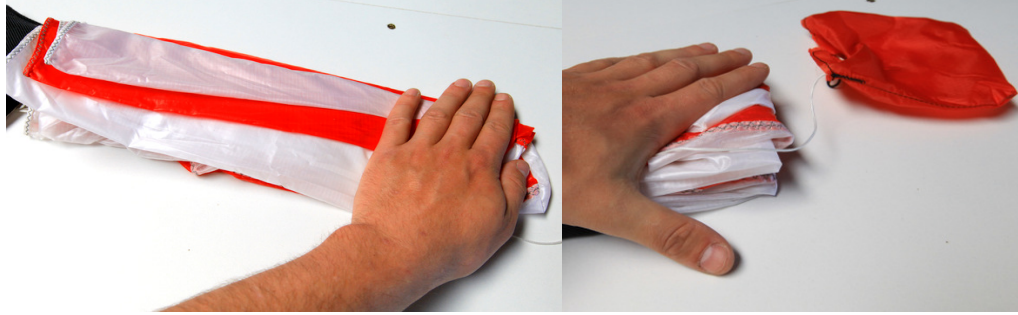
Separate every single fabric panel. Evenly distribute them to the right and the left (5 on each side).



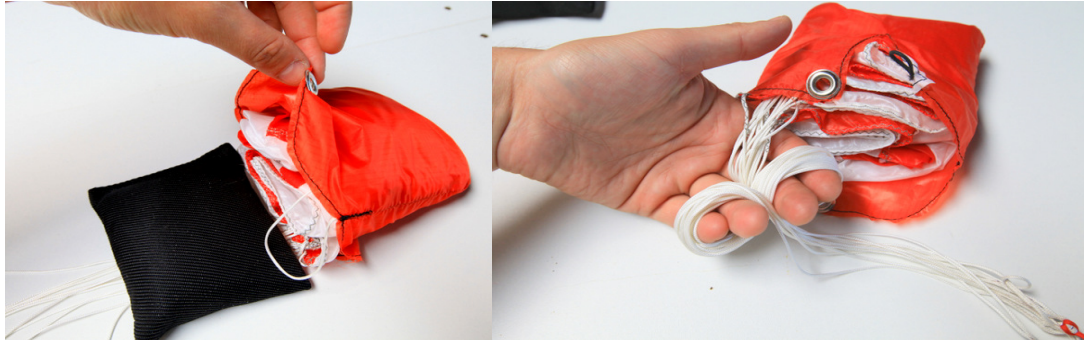
Then folds the panels the way shown on the picture below starting with the left panels, then do the exact same things for the right ones.



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.