

How to use auxiliary batteries with MaxxUAV battery adapter clips

DJI Phantom 3 Professional, Advanced, Standard, 4K

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WARNING: although we and others have tested these extensively, this is AT YOUR OWN RISK. DJI might not honor warranty in case of a crash!



The adapter clip is easy to insert in the main battery. Insert the battery as usual and you will have a standard XT60 connector sticking out. The main battery is 4S LiHV, so you will need to use 4S LiPO or LiHV batteries. You can use any brand, size or capacity – just make sure they fit on the quad.

You can use a single aux battery under the VPS using **3M Dual Lock**. Make sure to disable the VPS in the DJI Go app. We have tested many, and currently the best to use are the **Hobbyking Multistar LiHV High Capacity** batteries of either 4000, 5200 or 6600 mAh. These are cheap and light. The 6600 makes the quad skew a little while taking off, but after that it stabilizes (large batteries might wear the motors more quickly – so be warned).

Using an **XT60 parallel cable** and **battery wings**, available at MaxxUAV, you can also use lighter dual batteries on both sides of the bird. This will make the bird more stable, but because of the cable the battery resistance will be higher resulting in a slight loss of flight time. Use dual 4S batteries of 1600 to 3000 mAh each.

First start the quad with the main battery only connected. When everything is ready, connect the aux battery or batteries to the XT60 connector.

If your aux batteries are fully charged, they might start charging the main battery before take-off, resulting in the main battery being switched off. To prevent this, take off immediately after connecting the aux batteries. You can also charge your aux batteries less (to 4.28 – 4.30 – 4.32 V per cell). If you use normal LiPO batteries instead of LiHV batteries, you will not have this problem, but they are a bit heavier. If you get a battery error immediately after taking off, it means your aux batteries are indeed charging the main battery. Land normally, disconnect the aux batteries, and start the procedure again.

You can also use the non-LiHV Multistar High Capacity batteries. Other good brands (albeit heavier) are Hyperion, Tattu, Zippy and Turnigy.

As a **charger** for your aux batteries, we recommend the Hobbyking Turnigy chargers, SkyRC or iCharger. If you want to use LiHV batteries, make sure your charger supports these. Never keep batteries fully charged for more than 2 days. Use the charger's storage function to discharge them!

After flying, first carefully disconnect the aux battery at the XT60 connector before switching off the quad.

Go to the MaxxUAV website for more pictures and videos.