

DRONETECH

BEGINNERS TIP



INTRODUCTION

Becoming a good drone pilot is not an easy task. However, if you look around the web, you might think that it is indeed very easy to fly a drone even when you are a beginner. Drone piloting aids are not necessarily the best thing when you start learning. In this ebook we will take a look at the basics of everything you need to know to start learning smoothly. How to fly a drone? Discover the complete guide to having fun with your drone.

REGULATION

European rules in the Open category

The pilot is held responsible for the safety of his flight.

To fly a drone equipped with a camera, you need to obtain a "UAS operator number". In France, to obtain this number, you must register for free on the AlphaTango website and follow the instructions.

An online training course is required for aircraft weighing more than 250 grams, validated by passing an exam. This is offered on the Fox AlphaTango website and is designed to bring the regulations to the attention of the pilots.

The maximum flight height is 120 metres (except for certain model aircraft clubs).

It is forbidden to fly over a gathering of people.

It is essential to fly in direct view of the pilot.

In the case of immersion flights, the pilot must be assisted by an observer who must keep the aircraft in direct view.

It is forbidden to transport dangerous materials.

Flying in the vicinity of emergency services is prohibited.

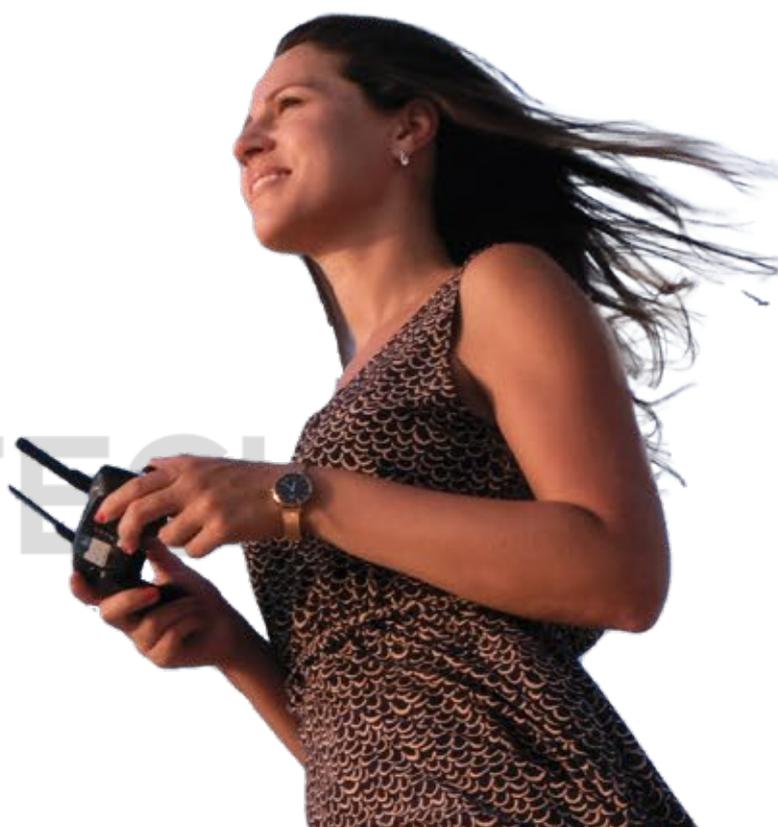
If the conditions of use do not allow the obligations of the Open category to be fulfilled, the Specific category must be used (much more restrictive).

OUR ADVICE FOR A GOOD START WITH YOUR DRONE

No, drones are not just toys! Photo/video, the pleasure of flying... There are many reasons to take the plunge. To use it to its full potential, you must first learn to master your drone.

WHAT IS ALLOWED TO BE FILMED?

For obvious reasons of safety and privacy, French airspace is highly regulated. Before you take off with your drone, it is important to find out about the standards in force. From a general point of view, keep in mind that it is forbidden to fly over an urban area, whether it is a park, a street or a stadium. Also remember that it is forbidden to film people without their knowledge. As for the maximum flying height, it is now 150 m. (you can read our blog and articles on this subject for more information).



DRONETECH

PREPARATION BEFORE FLYING

The take-off and hovering of a drone are not complex. However, flying a drone becomes more complicated when it comes to flying at high altitude or making turns. To avoid damage to your aircraft, it is strongly recommended that you refer to the manual carefully.

Preparing for the flight is an important step before you start to manoeuvre the aircraft:

- To begin with, favour areas that are free of obstacles and human presence. Your first manoeuvres should remain basic. It is only with a little practice that you will be able to launch yourself into a more sophisticated piloting.
- Before you power up your remote control, it is important to ensure that your phone or tablet has enough battery power to operate the aircraft for the duration of the flight.
flight time. Also check that your drone's battery is fully charged.
- Next, check that your phone or tablet has enough memory to manage the application dedicated to piloting and/or record videos if needed. Some applications require more memory than others, depending on the technology used in the drone.
- It is possible to choose between two piloting modes on your remote control: "mode 1" and "mode 2", to manage the speed. It is preferable to leave the default mode to start with in order to offer more safety to the drone and assist pilots.
- Finally, it is a good idea to develop a pre-flight routine so that nothing is forgotten.

Learning to fly

Training is, as in any learning phase, the foundation of flying. Once you feel you know how to fly or have sufficient ability to fly, nothing in life is really taken for granted. You will need to maintain your skills and reflexes through regular training.



HAVE A PLAN OF ATTACK!

Initially, your objective will be to take off and land on a fixed point by a fixed point by changing the orientation of the drone in relation to your your position: practice manoeuvring the drone by following these the following steps and then repeat this exercise with the aircraft facing you

you, then facing to the right and to the left.

This will allow you to acquire good piloting reflexes and improve your vision in space.

improve your vision in space!

1

POSITIONING

To begin, position your drone, rear facing you, flat on a flat on a horizontal surface (preferably solid to avoid sideways to avoid sideways take-offs). This puts the machine in your frame of reference with respect to

to the surrounding space. Make sure you are clear of obstacles and have a

obstacles and provide a wide area to prevent any risk of collision.

2

STABILISATION

Stabilise your drone at one metre above the ground by bringing the to the centre.

3

LANDING

To land, locate a point and perform the reverse movement, i.e. up and down.

This movement will slow down the drone's speed. This movement will slow down the motors and lower the drone.

Repeat this movement several times while gradually raising your drone. your drone. Do not exceed 10 meters at first.



LEARNING TO MANOEUVRE

Once you are familiar with the remote control and the vertical and horizontal movements, you can start to perform other manoeuvres manoeuvres:



HOVERING

Use the right-hand stick to steer the quad. Forward, backwards, right and left.

With each movement, return to the starting point, stabilize the machine and start again

ROTATION

Now that the steering function has been learned, it is time to move on to time to move on to rotation. To do this, stabilise your machine at one metre from the ground, always

Always make sure that the rear of the machine is facing you.

Without touching the right-hand lever, gently press the left-hand lever to the right.

the left lever to the right. The device will be able to rotate on itself to the right.

"Repeat this procedure, but this time to the left to rotate to the right and left.

Repeat this procedure until you have reached the end of the rotation range.

Repeat these manoeuvres until you are able to master these movements.

master these movements perfectly. When you have gained confidence,

you can start to perform more complex movements: circles, turns, and circles, turns, figure-eights, spirals, small accelerations, loops loops, etc.

OUR ADVICE

Common mistakes that beginner drone pilots make

Here are some of the most common mistakes you should try to avoid when you are still a beginner:

Flying in places with lots of obstacles: it's best to learn to fly a drone in an open area with few or no obstacles.

Don't use a simulator to get started: if aeroplane pilots learn through simulators, there is no reason why you shouldn't learn to fly a drone using a simulator.

Launch the drone far beyond what your eyes can reach: while it is ideal to learn to use the drone's camera while flying it, beginners should always fly a drone within their field of vision.

Ignore wind conditions: it is difficult to know how to fly a drone in different wind conditions if you have learned mainly from a simulator. Even experts avoid bad weather conditions.

Don't fly when the battery is low: This applies to both the drone and your phone. If one of them loses power, you will certainly end up with a drone that will quickly crash to the ground. This is why drones like the tech-drone PRO from Dronetech Europe are now equipped with GPS systems that allow for automatic return.

The most interesting and practical flight options

A drone can have several functionalities, but the most interesting and useful ones are :

RTH: Return to home. This is a very good option in a drone. Indeed, thanks to this functionality, your drone automatically returns to the point



of its first departure.

Follow me: With this option, your drone follows you everywhere and always at an equal distance when you move.

ATTI mode: This feature allows your drone to spontaneously locate itself, should a loss of GPS occur. This allows you to stabilise your drone.

Obstacle detector: It is important that your drone is equipped with an obstacle detection system. This will prevent many accidents.

TRAVELLING WITH A DRONE BY PLANE: IS IT LEGAL AND UNDER WHAT CONDITIONS?

Travelling with your drone on a plane is not as simple as putting your swimming costume in your suitcase or your mobile phone in your hand.

You're going on holiday and you're tempted to take your drone with you, so you don't miss any sensational moments? And to come back with breathtaking images? Stop daydreaming and ask yourself the right questions! Can you travel with your drone? Do you have to put it in your hold luggage or your hand luggage?

If you're reading this article today, you're waiting for answers about carrying a drone on a plane, and you'll find what you need below



What the aviation regulations say about flying drones!

The good news is that it is possible to travel with your drone. IATA (the International Air Transport Association) applies two distinct rules for drones that can be transported by plane, considering that a drone itself is composed of two different parts. A so-called fragile part: this is the drone and its radio control, which are considered fragile electronic devices;

A dangerous and easily flammable part: These are the drone and transmitter batteries. In other words, the lithium batteries;

We will see below under which conditions you can transport these two parts of the drone in an aircraft, in due form.

How to transport a drone in a plane?

The first point to respect is to travel with the two parts of the drone separately from each other

Where to put your drone?

For the drone itself, it makes no difference whether it travels in the hold or in the cabin, if its volume allows it. As long as it is separate from the lithium batteries, even if they are integrated. The same goes for the remote control, you can carry it in the hold or in your hand luggage.

The only recommendation is to pack your drone well and place it in a rigid, shockproof case if you are putting it in checked luggage. If you don't want to take any risks with the clumsiness of baggage handlers, who sometimes expose your drone to possible breakage, we recommend that you place your drone in a special container

Where to put your batteries?

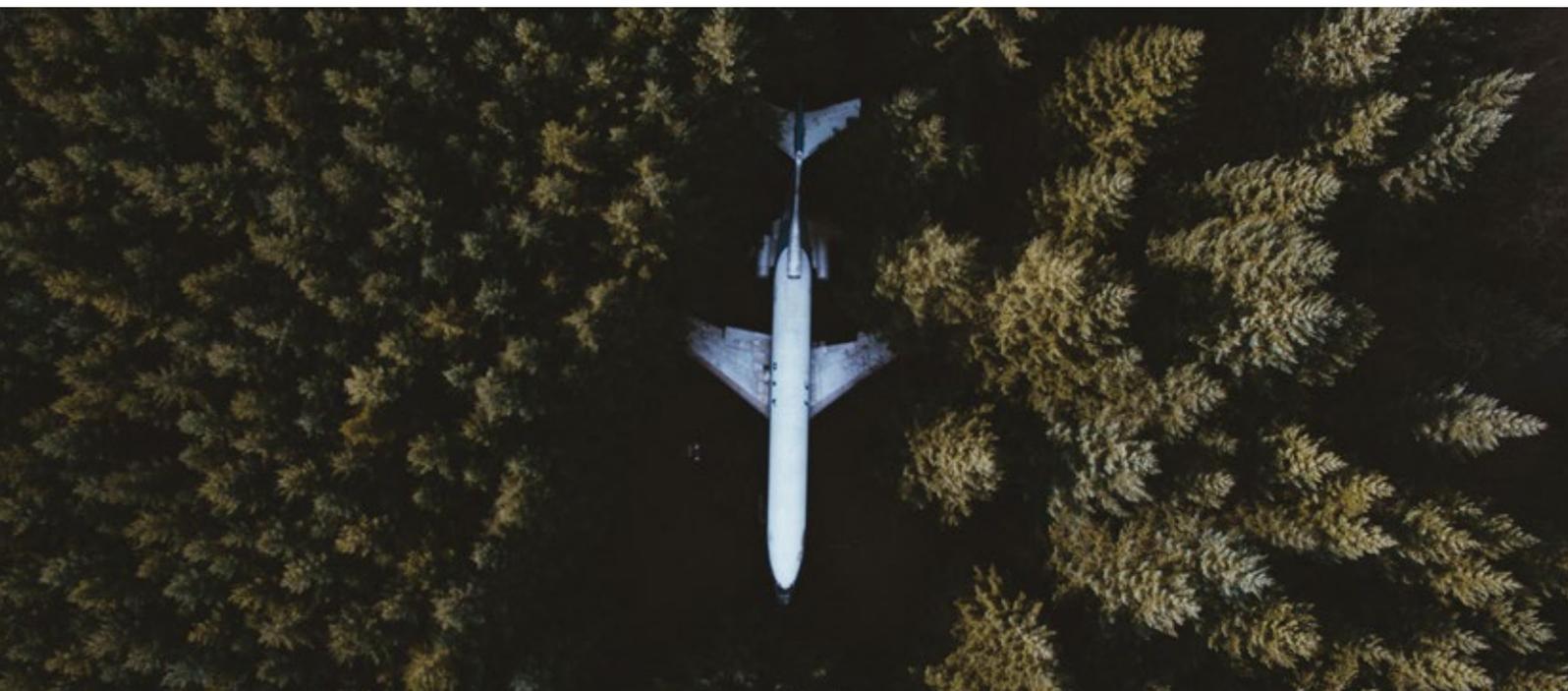
Lithium batteries are considered potentially dangerous when transported by air. That is why it is very important to follow the rules of their transport rigorously:

The drone batteries must be removed and separated from the drone itself;

The batteries must be transported in hand luggage and never in hold luggage;

The contacts of the lithium batteries must be insulated, therefore, the batteries must be placed separately from each other and each in a sealed plastic bag. And if you have the possibility, place each battery in a special fireproof pouch that can be bought in shops;

Finally, it is important to go to the information desk on the day, or the registration desk, and tell the staff about your drone. They will tell you if you need to fill in a declaration form for the batteries of your machine. All that remains is to wish you a safe journey!



OUR FINAL TIPS:

- Be careful, however, when the position of your drone is (the so-called flight reference frame), i.e. when it is facing you. At that moment, all horizontal controls will be reversed. It will take a little time to adapt to the You will need some time to adapt and be able to fly "upside down".
- Finally, keep an eye on your drone's battery. Generally, it will not last more than 10 minutes, usually lasts no more than 10 minutes on small models and less than 25 less than 25 minutes on the higher category drones... you will need to bring two or you will need to carry two or more batteries if you want to get the most out of your you want to get the most out of your flying experience. You can order your battery from our online shop.
- Facing an emergency situation? No need to panic here, use the flight aids like the RTH (Return To Home) available on our drones.
- As a general rule, avoid relying too much on flight assistance! Problems can occur via the assistance and it is much better to learn to fly manually to manual to develop a feel for it and gain confidence and experience. experience.

DRONETECH



CUSTOMER DISCOUNT COUPON



**Save 20% on your next
purchase with the code:**

CLIENTDT20