**References:**

* https://www.dronezon.com/learn-about-drones-quadcopters/what-is-drone-technology-or-how-does-drone-technology-work/

Unmanned aerial vehicle technology covers everything from the aerodynamics of the drone, materials in the manufacture of the physical UAV, to the circuit boards, chipset and software, which are the brains of the drone. The DJI Phantom series is one of the most popular drones. More new and highly advanced drones such as the

* DJI Mavic Mini
* Mavic 2
* Mavic Air 2
* Phantom 4 ProV2.0
* Yuneec Typhoon H3 and
* Autel Evo 2

However in order to understand the UAV technology considering the DJI Phantom is ideal enough as it includes the UAV and camera.

A typical unmanned aircraft in order to reduce weight and increase maneuverability is made of light composite materials. This composite material strength allows flying at extremely high altitudes.

UAV drones are equipped with various technologies. Technologies such as infrared cameras, GPS and laser for consumer, commercial and military UAV are used.

An UAV system has two parts:

* The drone and
* The control system.

At the center of the unmanned aerial vehicle all the sensors and navigational systems are present. The rest of the body is full of drone technology systems. The materials used to build the drone are highly complex composites designed to absorb vibration, which decrease the sound produced. These materials are very light weight.

**Different sizes of drone:**

The largest drone mostly used for military purposes such as the Predator drone. The next in size are unmanned aircraft, which have fixed wings and require short runways. These are generally used to cover large sections of land, working in areas such as geographical surveying or to survey wildlife.