# HOW CAN A CAMERA BE INSTALLED ON A DRONE?

There are various methods of installation cameras depending on the type of camera and the structure of drone onto which the camera is to be installed.

## CASE STUDY: 3 cameras

Considering the given cameras which are Hawkeye firefly 8, FPV camera and our own phone camera.

### Hawkeye firefly:

This particular camera is camera which take in an SD card. This camera is thus not connected to the flight controller of the drone. It takes its own videos and stores it in the SD card to be viewed later. For some the video can be gotten wirelessly through WiFi or other means. Following these few characteristics of the camera, it is installed through the following process;

* A vertical support for the camera is fixed on the desired placed on the drone. The part of the drone it is placed on should be in such a way to keep a certain symmetry and stability.
* The camera is then placed on its vertical support and fixed either with screws or by a zipper connection.

### FPV camera:

This type of camera is composed of a cable which is connected on the flight controller. It also comes with some sort of support on which it is hanged onto the drone. The connection to the flight controller permits visual images and videos to be sent by the antenna to the base station (Telemetry). Considering these characteristics, the camera can either be incorporated in some sort of way in the drone or if provided a support, the camera can be hanged on the support on the drone.

* Incorporating the camera in the drone is done by dismantling it and inserting the camera in way it can have a clear view of the surroundings while recessed in the drone’s frame.
* The support of the camera is placed in the drone’s frame such that its arms can reach out to the camera and the camera is screwed to these arms.

### Phone’s camera:

The phone itself can be used an installed on the drone using an accommodative support which is placed on the drone in such a way to maintain its symmetry and stability.