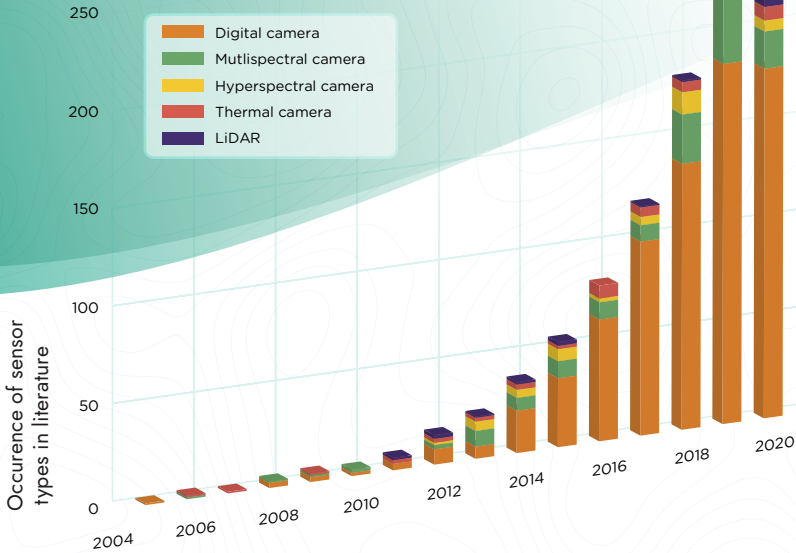


## What are the top sensors on research UAVs?



Drones in academic studies

### The method

- We analyzed **73 systematic reviews**, covering **8,536 studies**.
- Tracked which sensors appeared in studies over time and which brands researchers chose.
- **Brand data** came from only 188 studies that documented this detail, so it might not fully represent the real-world market.

### Findings

- Digital cameras are the most popular sensor.
- Multispectral and hyperspectral cameras second.
- LiDAR started increasing in popularity around 2019-2020.

### Why

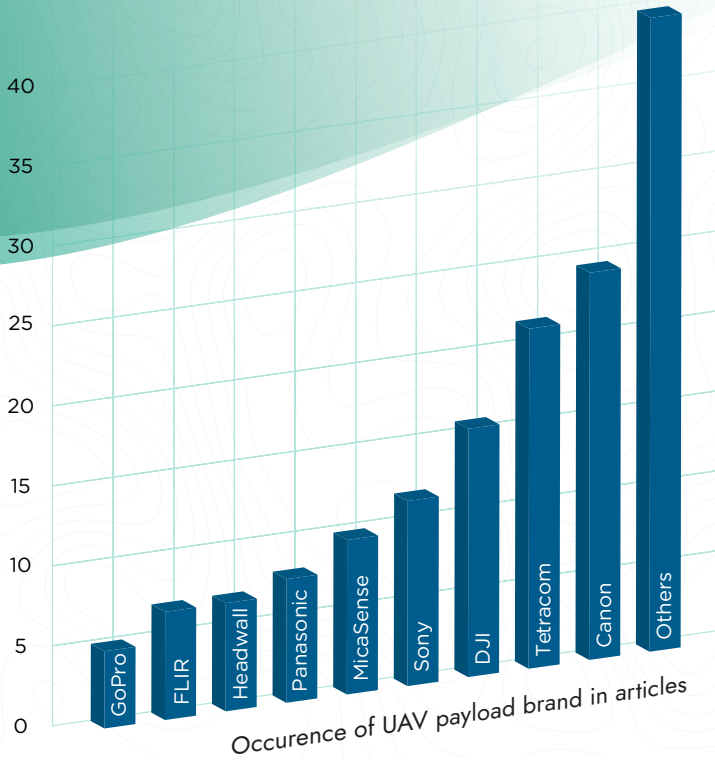
- Regular cameras work for most applications (3D mapping, photogrammetry, structural inspections, traffic monitoring).
- Often already built into platforms like DJI Mavics and Phantoms.
- Simple to use.





## What's cool?

Researchers reported using **46 different sensor types** total including particle sensors, gas detectors, microphones, networking gear, even agricultural sprayers.



Drones in academic studies

## The full story

### Paper:

<https://ieeexplore.ieee.org/document/10431744>



### Database:

<https://platform.icaerus.eu/drone-technologies>

