### DJI Phantom

**Specifications**
- Weight: 1kg unloaded
- Max flight time: 5 minutes (loaded)
- Max Payload: GoPro Camera
- GPS IMU: Autopilot system capable of holding position and altitude
- Flies back to and lands at the spot at which it was turned on if it loses connection to the controller.
- Small enough to fly in confined spaces

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![DJI Phantom in flight holding its position in GPS mode. The GoPro Hero 3 is mounted below.](image)

**Right Top:** The Phantom being flown in an MDOT pump station to collect imagery in a confined space.

**Bottom Right:** Image collected from the Phantom of a simulated crash scene.

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### Hexacopter

**Specifications**
- Weight: 4kg unloaded
- Max flight time: 16 minutes
- Max Payload: 5kg
- GPS IMU: Autopilot system capable of holding position and altitude
- Stabilized gimbal that allows for the camera to be pointed in various directions, independent of helicopter movement
- Mount thermal, optical, other sensors
- Flies back to and lands at the spot at which it was turned on if it loses connection to the controller.
- Able to deploy within a couple of minutes
- First person viewer system with heads up display that provides a readout of altitude, speed, rate of ascent and battery life.

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### MTRI Blimp

**Specifications**
- Lift Capacity: ~8 lbs
- Max flight time: ~2 days
- Max Payload: 4 lbs, (50% of total lift)
- Approximately 17 feet long and 6 feet in diameter
- Remotely controlled 3 axis gimbal, can mount various point and shoot cameras
- First Person Viewer possible
- Useful for persistent observation of an area
- Different sensors can be mounted, live video streams possible

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### Micro UAVs

**Specifications**
- Weight: 19g
- Max flight time: 7 minutes
- Completely programmable with an open source user community.
- Able to mount small video/camera
- Used for confined spaces

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![Above: Crazyfly with a key chain camera mounted to the bottom](image)

**Right Top:** Its small size is ideal for inspecting confined spaces.

**Bottom Right:** Test flight inside an MDOT pump station.