

Drone Capture (UAV)

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Unmanned Aerial Vehicle (UAV) or drones are extensively used for high resolution mapping. UAV mapping is an accurate and cost-effective method compared with aerial mapping or satellite imagery.

What are the benefits of UAV Mapping?

Mapping has historically been done with satellites, planes, and on-site techniques that require specialised equipment. With drone technology and photogrammetry software, mapping can be achieved much faster, cheaper, with more accuracy, with more flexibility and safety.

Speed

Unlike planes and satellites, drones can be deployed in a specific area any time. They can be pre-programmed with flight patterns to improve efficiency and ensure consistency and they don't require you to wait for satellite locations to align with your site.

Cost

Drones require smaller team and therefore, smaller budgets - to deploy. Sometimes just one person can execute the project and there is no need to send people into the field with specialised equipment. UAV mapping also eliminates the costs related to flying planes and purchasing satellite imagery.

Accuracy

Photogrammetry software automatically corrects for perspective, camera angle, distance and other factors to provide accurate 2D and 3D maps. What used to require specialised expertise and days or weeks can now be done with better accuracy in a matter of hours.

Flexibility

Drones can fly below cloud cover, between buildings, under trees, and even inside active construction sites to gather information. They can also be used when planes and satellites are not available or if there is limited visibility.

Safety

Unmanned aircraft present fewer risks than flying planes. Field inspections can also be performed remotely and around construction sites from various heights, reducing risk to individuals.

How can the data be used?

The data can be integrated with other software, maps, and images, for tasks such as:

- Taking measurements
- Detecting change
- Identifying anomalies
- Calculating distances

