ArcGIS® Drone2Map®

Robust GIS drone mapping software

What Is ArcGIS Drone2Map?

ArcGIS® Drone2Map® software is the desktop app for your geographic information system (GIS) drone mapping needs. Use any modern drone to capture high-resolution imagery where and when you need it. Immediately after the flight in the field, process images on your laptop and perform drone analytics on your natural-color, thermal infrared, or multispectral datasets. As part of the ArcGIS system, Drone2Map provides easy access to a range of tools and capabilities for accurate mapping and geospatial analysis. As a 2D and 3D photogrammetry app, Drone2Map lets you create the outputs you need—including orthomosaics, 3D point clouds, and textured meshes—and then easily share them with your ArcGIS organization for greater collaboration and awareness.

How It Works

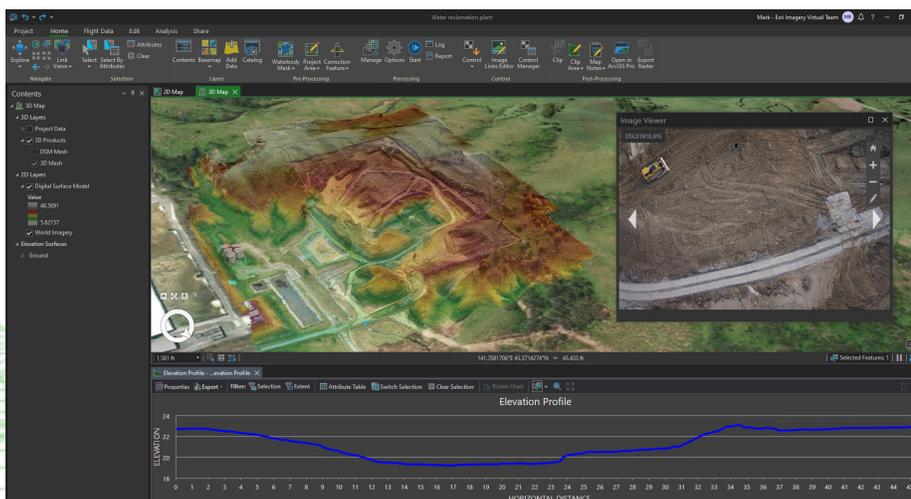*Capture:* Collect drone data using Site Scan Flight LE or any third-party drone data collection app.

Download and process: After the completed flight, create a project to download your drone imagery. Add ground control and automatically process to create 2D and 3D outputs.

Visualize and analyze: View 2D and 3D outputs. Make measurements, track changes, and perform other analyses within Drone2Map.

Perform advanced analysis: Open your project easily in ArcGIS Pro to use a range of tools such as advanced spatial, temporal, and spectral analysis and data management.

Share: Share your imagery outputs within your organization or with the public as feature layers, web maps, imagery layers, and more.

What Are the Capabilities of ArcGIS Drone2Map?

Ability to capture reality with your drone

Use any modern drone to capture high-resolution imagery where and when you need it for your GIS drone mapping workflow. Esri recommends the Site Scan Flight for ArcGIS Limited Edition (LE) application to plan your flight and fly your drone, but other flight apps and nearly all drones are supported for processing in Drone2Map.

Ability to work in the office or in the field

Because Drone2Map is a desktop app, you can download it on your machine and process images immediately after a flight instead of waiting for an internet connection. After returning to the office, you can generate high-quality imagery products to use in your GIS or publish them to share with others.

Drone analytics

Use the built-in capabilities of Drone2Map to visualize your natural-color, thermal infrared, or multispectral datasets. Perform 2D and 3D measurements—including distances and areas, terrain profiles and volumetric calculations, or spectral profiles—to analyze your drone data quickly.

Integration with ArcGIS

As part of the ArcGIS system, Drone2Map provides access to a range of tools and capabilities for accurate mapping and geospatial analysis. Projects can be opened easily in ArcGIS Pro for integrated management, and imagery data products can be published in ArcGIS Online or ArcGIS Enterprise with full support for multispectral, thermal, and elevation datasets.

2D photogrammetry

ArcGIS Drone2Map enables users to easily process overlapping nadir images to create accurate 2D orthomosaics, digital surface models (DSMs), and digital terrain models (DTMs). These outputs, referred to as orthomapping products, integrate seamlessly into ArcGIS Online, ArcGIS Enterprise, or ArcGIS Pro and provide great value due to their timeliness, resolution, and accuracy.

3D photogrammetry

Powered by SURE for ArcGIS, Drone2Map provides the ability to create 3D reality mapping products such as point clouds and textured meshes from nadir and oblique images. Drone2Map also enables the creation of DSM orthomosaics with sharp building edges and all aboveground features in their correct horizontal location.

FOR MORE INFORMATION

Go to go.esri.com/drone2map to get more information, connect with the sales team, and ask questions.

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