

PhotoMesh Drone

High-Performance 3D Modeling for Drone Imagery

PhotoMesh Drone converts drone-captured photos, including multi-spectral bands, video, and LiDAR from a variety of sensors into highly-detailed 2D and 3D outputs. Built on high-performance photogrammetry, computer vision, and AI algorithms, PhotoMesh efficiently handles even complex projects and challenging data collections. PhotoMesh outputs can be exported in multiple formats, including multi-resolution 3D mesh models (3DML, 3D Tiles, OSGB, SLPK, DAE, OBJ), rasters (Orthophoto/True Orthophoto, DSM, DTM), and point clouds (LAS/LAZ), ensuring seamless interoperability with other 2D and 3D GIS solutions.

Optimized Local Hardware Performance

Designed as a powerful, single-computer solution, PhotoMesh Drone fully utilizes local hardware capabilities to deliver fast and accurate photogrammetry and 3D modeling for your projects.



Build • Share • Analyze



Precise Geo-Positioning

PhotoMesh Drone leverages GPS/RTK/PPK geo-positioning data for aerotriangulation, enhancing model positioning with manual or automatic control points. When GPS data is limited, it aligns models to existing projects to ensure precise geo-referencing.



LiDAR Integration

PhotoMesh Drone allows seamless integration of LiDAR data, enhancing model precision with smoother geometries, better fidelity in texture-sparse areas, & detailed street-level modeling for accurate 3D reconstruction in challenging environments.



Multispectral Integration

PhotoMesh Drone integrates multispectral bands, such as NDVI and GRVI, to enrich mesh texturing and orthophoto generation, enabling more detailed analysis of surface characteristics for a variety of applications.



Quality Reports

PhotoMesh Drone delivers comprehensive Quality Reports after each build, providing powerful statistical and graphical insights. These reports highlight key metrics, detect potential issues, and visually present data like photo overlap, connection strength, and projection accuracy - helping you achieve optimal quality builds.



Powerful Simplicity

PhotoMesh Drone provides powerful tools for analysis and visualization, enabling efficient preview, refinement, and data optimization—all within an intuitive interface enhanced by step-by-step guided wizards that simplify complex workflows.