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Dat'Air and Skyline Collaborate to Deliver Extreme Fidelity and High-Accuracy 3D Results

Dat'Air Consortium (Lead'Air, StellaCore Solutions, and Wilco Aerial Services) has announced the completion of a joint development effort which combines the StellaCore modern-approach Aerial Triangulation (PictoVera) with the Skyline high-performance Photomesh 3D processing Software.

This integration has resulted in the highest geometric fidelity 3D models available in the market today, as well as fully compatible export capability to any standard photogrammetric format. This allows for any derivative data that is extracted from the imagery (Stereo Pairs, Orthomosaic, DTM, point cloud, etc.) to match the produced Skyline Photomesh with the highest correlation possible between the distinct data layers.

This capability enables the development of a workflow which utilizes the result of Stellacore PictoVera Aerial Triangulation available for the Lead'Air MIDAS aerial imaging system, working in the fully Euclidean environment and designed to address multi-camera systems using a novel Geometric Algebra approach in creating the optimal photogrammetric solution for multi-camera oblique systems. <http://stellacoresolutions.com/>

The results are then directly ingested into Skyline Photomesh, not requiring any additional adjustment or manipulation of the data to produce the highest fidelity Geometric output. At the same time, the AT results can be exported into any standard photogrammetric format to produce additional derivative products from the data, which will contain identical geometric characteristics and geographic location of the resulting 3D Photomesh. <http://www.SkylineGlobe.com/>

Lead'Air recently announced the OCTOBLIQUE MIDAS. The OCTOBLIQUE MIDAS (operated by Dat'Air) is the next generation of oblique imaging systems utilizing one vertical and eight oblique cameras spaced at 45° around a complete 360° view. The addition of 4 more cameras makes it possible for imagery to cover all areas fully from every angle leaving no angular blind spots uncovered. PictoVera and the Stellacore/Skyline integration leverages the additional views to improve the fidelity of 3D results further. <http://trackair.com/index.php/octoblisque-midas-3/>

Skyline has recently released the second generation of its Photomesh software suite as part of its new SkylineGlobe software suite, incorporating brand new edge-extraction algorithms, noise removal, improved color texturing, and optimized point cloud densification for highest geometric quality. Utilizing revolutionary parallel processing techniques and access to Cloud Web Services, Skyline can produce high-quality 3D Photomesh with unlimited scale, surpassing processing capacity of 5,000 GigaPixels/week (the equivalent of 140,000 images from a typical 36MP camera). [Skyline YouTube Video Page](#)

TerraExplorer Desktop Viewer: [Skyline TerraExplorer Viewer Download](#)

(Download and unzip Installation files. After installing setup.exe file, download [Fly File and Unzip It](#), drag and drop into TE Window to start exploring Orlando Dataset produced from new Dat'Air AT integrated with Skyline Photomesh)

TerraExplorer for Mobile: [TerraExplorer for Mobile – Android](#), [TerraExplorer for Mobile – iOS](#)

TerraExplorer for Web: [TerraExplorer for Web Starter Page](#)

