



AEGIS: Geospatial Solution to Create 2D and 3D Maps from Full-Motion Video

Key Features:

Accurate 3D Maps

The system includes multiple virtual processing components which perform data parsing processes, metadata extraction processes, data interpolation processes and filtering processes using data collected from other virtual processing components to generate accurate maps.

Autonomous Data Acquisition

The system enables unmanned autonomous data acquisition and processing within hazardous environments.

Real-Time Video Processing

The system uses photogrammetry to overcome costly and time-consuming limitations inherent in manual frame selection processes.



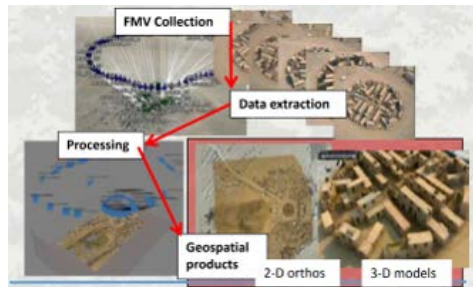
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AEGIS is a next generation geospatial software solution capable of generating 2D orthomosaics, 3D point clouds, digital terrain models, and 3D textured models by processing Full-Motion Video (FMV file) or video stream's in real-time

The system can provide operators with real time situational awareness of the battlefield allowing them to adjust their strategy, saving time and potential lives.

The proposed software system will build on a first-generation geospatial solution, AEGIS, developed by the U.S. ERDC. The team will further develop the AEGIS solution to meet the data and security standards of the Air Force, and integrate the solution into common geospatial intelligence servers/products for rapid adoption.



The software solution, ingests FMV files or live UDP streams (User Datagram Protocol) from an airborne drone or aircraft. An automated process extracts metadata and video frames for importation into photogrammetric processing software. Once the data has been ingested and interpolated, the software generates 2D orthomosaics, 3D point clouds, digital terrain models, and 3D textured models. Geospatial products such as orthomosaics for each calculated cluster are then automatically created and exported.

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