



streaming aerial intelligence to your fingertips



“Based upon Droneware’s™ imagery content management legacy, it is the first GIS tool produced to help quickly and cost-effectively store, search and manage un-standardized, RAW content directly from drones. It makes streaming and managing thousands of images and videos simple.”

– Dr. Shawana P. Johnson, GISP, President, Global Marketing Insights, Inc.

A year ago, a platform to capture, tag, manage and disseminate imagery from drones did not exist. Today, PTFS’s Droneware parses geospatial tags from sensors mounted on drones and UAS devices, and organizes the data into an intelligent hierarchy. Droneware is a user friendly and intuitive geospatial content management solution for storing and retrieving imagery and video from virtually any drone platform.

### Drone Industry Challenges

- **Drones capture big, messy data**—Modern single-lens reflex (SLR) cameras and other sensors mounted on drones are now allowing users to capture thousands of images and videos in a single flight. Managing and analyzing all this data can be onerous, unsatisfying and time consuming.
- **File format standards do not exist**—Various digital camera manufacturers use myriad RAW formats. There is no accepted industry file format standard for RAW image formats created by modern SLR, GoPro and proprietary drone mounted cameras.
- **Lack of video geotagging**—Many drones use the geotags created from onboard GPS to be embedded in the still image files, but most drones do not yet geotag video files.
- **Difficult to disseminate large quantities of files**—Drones capture big data, but users need an effective method to disseminate large quantities of files quickly.

### Droneware

- **Manages large amounts of data**—Geotagged data catalogs allow for metadata search, hierarchical browsing or visual search within a specified AOI. Efficient data selection options simplify analysis tasks.
- **Universal format standard**—Droneware ingests many sensor and commercial camera formats, retains the high resolution RAW files and produces JPEG display versions from the RAW files.
- **Video geotagging**—Droneware provides multiple alternative methods to geotag ingested flight video easily, even for drones that do not support video geotagging.
- **Web-based dissemination and commercial analytics**—Droneware uses Amazon AWS, cloud services for dissemination of data to anyone in the world 24x7. Notification capabilities are provided to alert users when new data has been uploaded to their AOI.

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## How Droneware Works

Droneware is a web based geospatial content management system (GeoCMS) customized for UAV/UAS utilization. The software utilizes drone GPS coordinates at the time the drone's sensor captures data to allow the information to be retrieved and displayed geospatially on a base map. Hosted in the Amazon cloud, data is safe, secure, backed up and accessible from anywhere in the world anytime. Droneware is simple and easy to use, providing a valuable tool for commercial utilization or for the hobbyist. Droneware builds a catalog of geospatially tagged data resources that can be used for analytics or just plain fun!

## Functions and Benefits

- Ingests and manages flight data for analysis
- Automatically extracts metadata upon ingestion (latitude/longitude, date, sensor type, file type and more)
- Assigns unique filename to each file based on user defined criteria
- Metadata editor allows for metadata enhancement and comments after ingestion
- Geospatial, temporal and keyword/metadata search capability
- Export from search list created by search, browse or geospatial visual search
- Search and browse by hierarchy after ingestion (recently ingested, day, week, month)
- Share favorites to social media platforms, such as Facebook and Twitter
- Image support: JPEG, JPEG 2000, high resolution digital negative formats from Canon, Nikon, and sensors supporting Adobe DNG (TIFF/EP) format
- Creates JPEG display image while keeping the higher resolution RAW format for future use
- Video Support: MP4, MOV
- Mobile phone app for uploading geotagged images and videos

## About PTFS

With more than 500 partnerships and installations for clients internationally, PTFS offers customized and proven content management solutions. Our core products include Knowvation™, Bibliovation™ and Droneware™. To help organizations focus on their core missions, we also offer highly technical teams that streamline the process to implement and maintain custom solutions that best meet their needs.

## Get the Power.



Connect with us



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