

OXYGEN FORENSIC[®] DETECTIVE

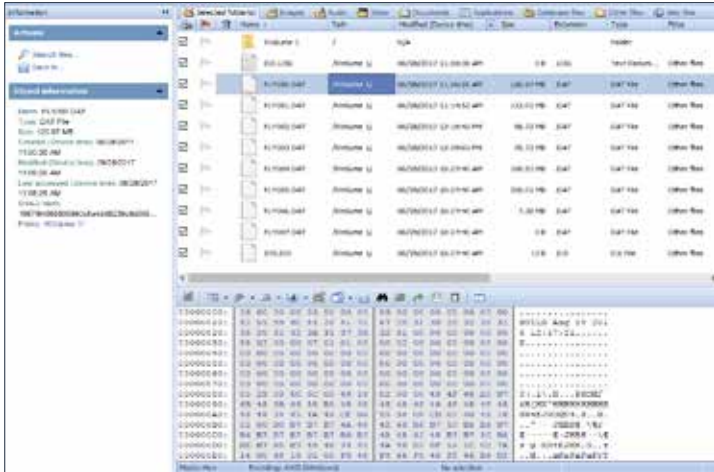
Drone Data Extraction and Analysis



OXYGEN
FORENSICS



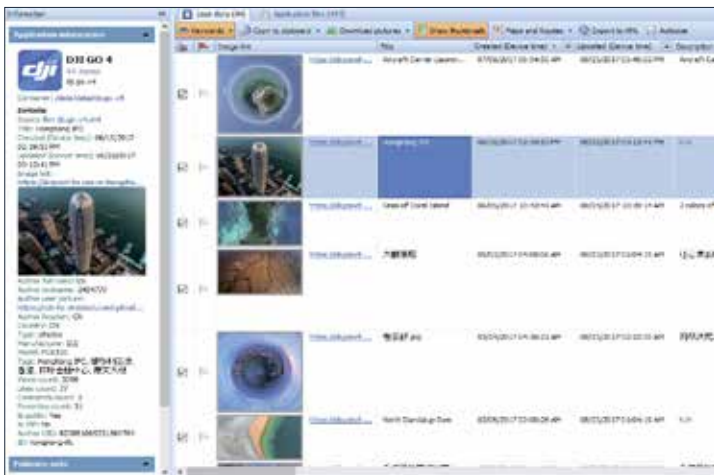
DRONES



Oxygen Forensic® Detective offers experts the ability not only extract digital evidence from a drone's internal storage, external SD card or physical dump, but parse and decode the data quickly and easily.

Now the investigator can review this valuable data in a human-readable form. Have two extractions from the same drone (e.g., internal, and external storages)? No problem, they can now be merged together in Oxygen Forensic® Extractor and shown as one extraction. Once parsing is completed experts can analyze drone GPS locations and detailed meta-data.

MOBILE APPS



The majority of drones are controlled by their apps via Android or iOS-based devices. Oxygen Forensic® Detective's powerful extraction capabilities successfully extract hundreds of unique apps, including drone apps, providing access to valuable information collected by the drone controller.

The information can include account details, uploaded images and videos, flight information with locations and time stamps, other users' uploaded files, their comments, and deleted records that are automatically recovered by Oxygen Forensic® Detective.

CLOUD



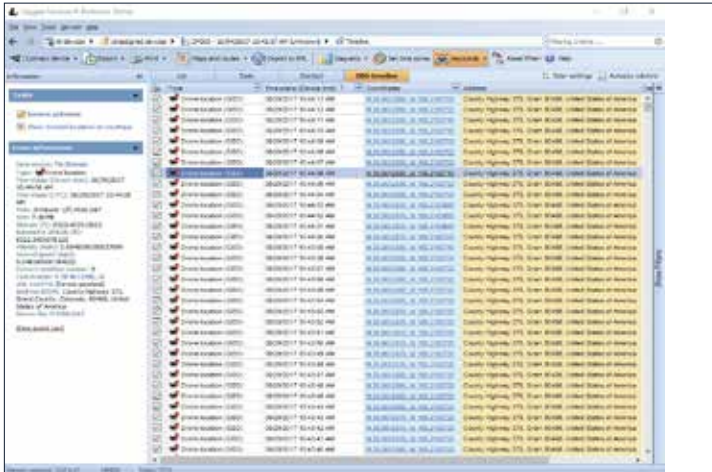
Some drone data is transmitted and stored in the user's online account, the drone manufacturer's cloud, or in both locations. The additional data within the cloud represents a separate challenge for an expert since manual extraction can be extremely complicated or just simply not possible for various reasons.

With the use of Oxygen Forensic® Detective the expert now is able to obtain access to the drone cloud via password or token and extract the information about the account, the drone model, the flight history, and associated metadata.

Criminals have now set their sights on using drones due to their many features. These features include: carrying payloads, flying great distances undetected, and their anonymity. A drones' video camera has even been used by criminals to commit stalking crimes to spy on their victims. With more than 770,000 registered drones in the United States alone, drone misuse has become a part of many news stories, and is quickly getting out of control.



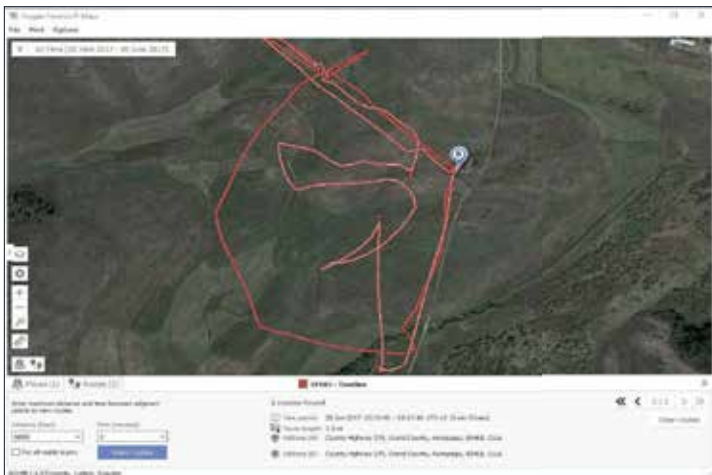
TIMELINE



Evidence collected from all available drone sources can be combined into a unified data set. Oxygen Forensic® Detective automatically parses GPS locations as well as route data. This valuable data is decoded to provide critical information representing the drone flight history in a chronological order within Timeline section. The approximate physical address is calculated from geo coordinates and shown in the Address column.

Furthermore, the examiner can see all the related metadata including the drone's speed, altitude and direction in the information sidebar.

MAPS



Oxygen Forensic® Maps automatically builds a visual route complete with points of interest (points on the map where the drone was used to shoot pictures or capture video footage). The related drone metadata is displayed in the information sidebar.

Oxygen Forensic® Maps module also allows experts to import separate drone .dat log files to track the flight path when only a single file is available for investigation. Documentation is important, so within Oxygen Forensic® Maps the ability to save the drone flight route as an image or as a snapshot is available. They can be later attached to the full data report.

REPORT



Oxygen Forensic® Detective enables export of drone data from any section to popular file formats, like PDF, RTF, XLS, XML, etc. This can be a report of the entire drone extraction, a single section, and even just selected entries. Forensic experts can export not only drone general information and meta-data, but full photographs with clickable geo coordinates. Reports are highly customizable and will typically conform to every possible examination. As a bonus, Oxygen Forensic XML reports can also be imported and integrated into other analysis software.

Why have high expectations for a drone forensic tool? Easy! The number of drones globally is growing exponentially, which simply means that the number of drone-related criminal activities will also climb. It is essential to have a tool that combines automated extraction, parsing and decoding of the data, and convenient visualization of geo-data. There is no time for investigating raw logs and copying the binary values representing coordinates, speed, direction, and plotting map points.

Oxygen Forensics was founded in 2000 as a PC-to-Mobile Communication software company. This experience has allowed our team of mobile device experts to become unmatched in understanding mobile device communication protocols. With this knowledge, we have built innovative techniques into our Oxygen Forensic® Detective allowing our users to access much more critical information than competing forensic analysis tools. Oxygen Forensic® products have been successfully used in more than 100 countries and our customers include various US and European federal and state agencies, such as the IRS, US Army, FBI, US Department of Defense (DOD), US Department of Justice, US Department of Homeland Security, US Department of Transportation, US Supreme Court, European Commission, Interpol, London Metropolitan Police, French National Police and Gendarmerie, German Federal Criminal Police Office, Italian Financial Guard, Spanish Civil Guard, Hong Kong Customs, etc.

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