CompassDrone to Demo Integration of DJI Video with ArcGIS

Full motion video (FMV) captured by the best-selling drones in the world can now be viewed, queried and used for professional mapping projects in Esri ArcGIS. CompassDrone will introduce DJI2FMV, a beta script soon to be rolled out as a web-accessible application, at the 2017 Esri Imaging & Mapping Forum in July.

CompassDrone developed DJI2FMV in cooperation with DJI, the leading provider of consumer and professional-grade imaging drones, to make DJI-captured video and telemetry accessible via the Esri Full Motion Video Multiplexer Add-in for ArcGIS. FMV mapping is used extensively in utility maintenance, public safety & security, crop monitoring, wildfire management, tree inventorying, and numerous public works projects.

"The ability to extract mapping-grade data from full motion drone video has traditionally been available primarily to military organizations using costly unmanned aerial systems (UAS)," said Hayden Howard, CompassDrone Vice President. "With the CompassDrone DJI2FMV tool, professional FMV mapping can be performed with the affordable and easy-to-use drones produced by DJI."

Representatives from CompassDrone and DJI will demonstrate DJI2FMV and showcase the soon to be released app in booth M411 July 8 and 9 at the Esri Imaging & Mapping Forum held just prior to the Esri User Conference in San Diego. The app will also be showcased in CompassCom's booth (2218) at the User Conference.

CompassDrone's Howard will discuss the development of DJI2FMV and its practical applications at 12:30pm on Saturday July 8, and again at 3:15pm on Sunday July 9, at the Imaging & Mapping Forum, which will be held in the Manchester Grand Hyatt in San Diego.

As a DJI Enterprise Dealer, CompassDrone supports DJI users in professional geospatial applications of their drone systems. In developing DJI2FMV, CompassDrone mapping experts wrote a script that extracts 12 key telemetry elements collected by the drone during flight, such as locations, headings and attitudes of the camera and platform. The script then correlates this flight information with the captured FMV to match telemetry with every second of video.

Once in ArcGIS, the video can be viewed and queried like any other GIS-ready image. Users can watch the video in one screen while viewing the drone's location and movement on a map display. Precise altitude and location coordinates can be queried at any point in the video. More importantly, the user can access ArcGIS tools to delineate and extract ground features in the video, and the resulting polygons show up instantly in the GIS map. Extraction can also be performed from the GIS map to the video.

https://www.gim-international.com/content/news/compassdrone-to-demo-integration-of-dji-video-with-arcgis