Tel Aviv, Israel – February 15, 2016. VisionMap, a leading provider of airborne imaging systems for defense, HLS and mapping applications, announced that its dual-spectral airborne imaging system, MIST G, recently surveyed a South American jungle for drug smuggling as part of a demonstration commissioned by a federal police force. VisionMap’s system, which was flown on a medium size UAV, demonstrated its exceptional efficiency, high resolution, and high thermal sensitivity.

A known problem facing authorities in the region is the use of jungles and rivers for illegal activities such as drug labs, weapon storage, terrorist hideouts and human trafficking. The aerial survey was conducted to demonstrate MIST G’s ability to detect signs of such activities across vast areas of land and water. The requirement was to create a reference map and 3D model of the area, as well as targeted visual intelligence of relevant activity.

First, the payload surveyed 100 km² of dense jungle from an altitude of 9,000 ft. AGL, capturing 4.5 cm GSD color and 13 cm GSD thermal imagery simultaneously from both vertical and oblique angles. The area was captured within ten minutes, and the imagery was sent to the ground via UAV datalink. The thermal images revealed the thermal signature of objects located under the dense trees including people, a vehicle and a small campfire, while the color images were used to identify the objects.

Next, MIST G surveyed a long (100 km x 8 km) river. The dual-spectral capture was completed in 45 minutes, and the police commissioners quickly spotted an anomaly in the thermal images, which they viewed in real-time. Upon request, the system provided high resolution color images of the location, which were used to identify the anomaly as a boat.
In addition to providing visual intelligence of suspicious activity, MIST G also produced geospatial reference data of the infrastructure. An orthophoto of a 20 km² urban area were automatically created in three hours, as well as a high resolution 3D model of the area. The system’s fast turnaround time enables surveying the infrastructure on a regular basis, and keeping the most up-to-date information about the changing environment.

VisionMap systems are also available for maritime surveillance, pipeline monitoring, hidden object location, deforestation detection, disaster management, providing defense intelligence, geospatial data production and more.

**About VisionMap**

VisionMap is a leading manufacturer of state-of-the-art digital automatic airborne imaging systems for defense, HLS and mapping applications. Thanks to VisionMap’s proprietary imaging technology, the cameras are able to quickly capture vast areas in extremely high resolution, day or night. VisionMap systems, which can be flown on UAVs or manned aircraft, support extremely large-scale projects thanks to their fast turnaround time.

VisionMap’s flagship systems, MIST and A3 Edge, are each comprised of a digital airborne camera and an automatic processing system, specially designed to rapidly process the large quantity of images collected by the camera. VisionMap systems are operational around the world, providing critical information on a daily basis.