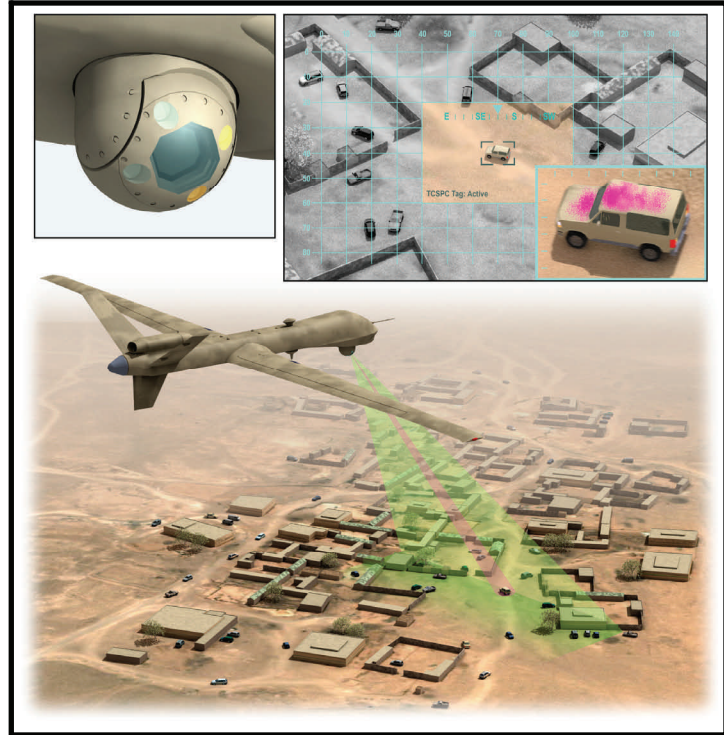


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The use of taggants to mark and identify objects and materials is an emerging technology with many potential applications. An important taggant application is the ability to remotely and selectively identify appropriately tagged materials and objects from airborne and ground platforms. Intelligent Optical Systems has demonstrated the ability to enhance detectability via a two pronged approach: using specialized, biocompatible quantum dots (QDs) as taggants, and using an innovative time-correlated photon counting system designed to sensitively detect QD fluorescence excited by eye safe laser radiation. Under an Air force SBIR contract, IOS is developing an airborne taggant detection prototype system projected to have a range of 3 km. DRS Technologies is providing engineering support and use of their GS207 gimbal.

BENEFITS

- Integrate taggant detection with visible and NIR imaging
- Detect tagged targets at distance of 3 km or greater
- Provide taggants attached to biological agents for selective tagging
- Provide highly fluorescent Quantum Dots as bio-labeled taggants
- Military and civilian applications can be addressed

APPLICATIONS

- Aircraft mounted long range tag and track
- SOCOM, Army, and Border Patrol - Vehicle mounted tag and track
- Military Force Protection – Soldier deployed tag and track, tamper detection
- Navy and Coast Guard missions – tag and track suspect boats
- Law enforcement – Helicopter mounted tag and track