

# KESTREL LAND MTI

AUTOMATED MOVING OBJECT DETECTION FOR EO/IR



## Over 1000 Systems deployed

Kestrel Land MTI is a software solution that automatically detects moving objects in electro-optical (EO) and infrared (IR) aerial video from manned aircraft and UAVs.

Kestrel Land MTI assists operators by:

- ❑ *Automatically detecting small moving objects such as vehicles and people.*
- ❑ *Increasing surveillance area over 20 times.*
- ❑ *Reducing operator fatigue through reliable detection over long missions.*

Proven in theatre with a wide range of air platforms and deployed on 6 continents, Kestrel Land MTI is at TRL 9.

Kestrel Land MTI can be easily integrated with ISR systems and is already available with many existing mission systems, sensors, ground control stations and RVT's.

### DETECTION CAPABILITY

- People and Vehicles
- Challenging Terrain
- Moving Object Tracking
- Real-time and Forensic Operation

"Kestrel detects any small movements in the field of view and alerts our operators to objects that are easily missed – camouflaged vehicles in tough terrains, dismounts or squirts leaving houses. This gives our commanders a complete understanding of the situation on the ground."

WGCDR David Riddel,  
RAAF Deputy Director – Air Combat  
Capability

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## KESTREL LAND MTI CAPABILITIES

- ❑ **Small Object Detection**  
*Down to a few pixels in size.*
- ❑ **Moving Object Tracking**  
*Visible history of object movements and predicted future path.*
- ❑ **Real-time and Forensic Operation**
- ❑ **Extractable data**  
*Including size, speed and direction of each detected object.*
- ❑ **Geo-location Data**  
*Compliant with STANAG 4609 and MISB 0601 in MGRS and Lat/Long.*
- ❑ **Integration**  
*Options include Windows application, API's for Windows, Linux and embedded processors.*

Sentient develops and deploys computer vision technology with a focus on the development of automated detection software for EO/IR imagery. With over 1,000 systems deployed, Sentient's solutions enhance the performance of EO/IR operations for many agencies and forces worldwide.

Sentient is a trusted partner of the Australian Department of Defence

