



# Hawkeye Land Systems



**CHES** DYNAMICS 

A COHORT PLC COMPANY

System head is mission pod agnostic allowing for modular expansion and in-field swapping of sensor pods.

Output data can be integrated into existing battlefield management systems or be used with Chess' existing GUI and C2 systems.

Fully Environmentally and EMC qualified.

Digital architecture provides efficient and timely management of data giving the user essential decision-making information.

Surveillance mission pod houses daylight and thermal cameras, long range LRF, laser pointer and edge computing. The edge computer allows efficient processing of data giving the user image classification, target tracking and auto-prioritisation modes.

GNSS and IMU provides system with highly accurate navigation and targeting data. The system can revert to 'IMU' mode and still achieve highly accurate target data in an RF denied environment.

Targeting mission pod provides space for a designator and SWIR camera allowing the user to prosecute targets up to 15km away.

Highly accurate and responsive azimuth and elevation actuators give unprecedented levels of targeting accuracy. The system is certified to TLE CAT 1 out to ranges of 20km and beyond.

Power and data management via digital outputs allows data to be sent to the where it's needed as quickly as possible.

# HAWKEYE LAND SYSTEMS

Having a visual image of both hostile and friendly forces, at a range that enables the commander to make informed decisions and is an essential element of modern ground operations.

Hawkeye is a family of advanced multi-sensor surveillance targeting and fire control systems that provides this visualisation capability. The systems provide comprehensive 24-hour surveillance and target identification in a broad range of operational scenarios and tactical applications.

The Hawkeye family of systems employs the latest image processing and system automation techniques to reduce dependence upon operator time and skill, thereby reducing workload and training requirements.

Based upon common system architecture, the Hawkeye family provides a flexible approach to surveillance that enables different applications to be accommodated, whilst employing standard operating procedures, delivering a low training burden and designed for reliability and supportability.



## SURVEILLANCE

- Target Classification
- Mast Mounted
- Target Location
- Video Tracking
- Video Analytics
- Image Processing
- Video Recording
- Georeferencing
- Laser Range Finder
- Ruggedized processing

## TARGETING

- Long Range
- Track & Engage
- Target Handoff
- TLE Cat 1
- Networked Video
- Georeferencing
- Joint Fires Terminal
- Laser Target Designator



## Hawkeye MS (Multi Sensor)

Our Hawkeye MS is Chess' latest electro-optical solution in the land domain, building on the combat proven Hawkeye Vehicle System for long range detection and 24-hour target observation. Designed for easy installation, this system can be integrated on to any tracked or wheeled vehicle and is suitable for fixed or mobile installation. The modularity allows for additional payloads to be added, therefore expanding the systems capabilities and allowing mission-specific configuration.



## Hawkeye AD (Air Defence)

Our Hawkeye AD system provides an integrated fire control solution for all types of ballistic effectors. It contains high-definition thermal imager and daylight TV sensors, coupled with a high performance laser range finder, all co-mounted on a dynamic direct-drive positioner. With a built-in tracker, Hawkeye AD delivers precise 3-D coordinates of both air and surface targets to gun control or combat systems. It is suitable for use on both fixed and mobile platforms.



## Hawkeye EOSS-D (Electro Optical Surveillance System Digital)

Our Hawkeye EOSS is a powerful surveillance and reconnaissance system that can be mounted in a fixed installation or in a stabilised configuration on vehicles. Its digital architecture allows employment of the latest generation thermal imager and TV camera sensors, and Chess' advanced tracking and target classification algorithms. It delivers superior situational awareness to operators



## C-UAS (Counter-UAS)

Our Counter Unmanned Aerial Systems (C-UAS) from Chess Dynamics is designed to detect, identify, track and defeat Unmanned Aerial Vehicles (UAVS) engaged in hostile airborne surveillance and malicious activity. The System uses a combination of cutting edge cognitive radars, target detection and tracking AI, electro-optical sensors, and directional RF detection and inhibition to provide 360-degree layered situational coverage. The System combines a smart-sensor and effector package and are equipped with advanced AI capabilities for target identification, classification, and tracking.





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