



Innovative Systems for **Individual Solutions**



Our Commitment

We help our customers protect what matters most by providing the best in proven technology with high availability for demanding environments. We hire the best people and always provide a solution to a need rather than pushing a product.



Our Values

Teamwork

We work together to provide our customers with solutions.

Integrity

We do what we say, when we say. We act with honesty and are trustworthy.

Excellence

We take pride in what we do. We strive to continuously improve ourselves and the business.

Courage

We are not afraid of taking on challenges with diligence, endurance and nerve.



CHESS DYNAMICS



A COHORT PLC COMPANY

Chess Dynamics is a surveillance, fire control and large positioning systems specialist, providing solutions for Land and Maritime domains. Defence Leaders around the world work with Chess for market-leading, reliable defence systems.

Chess delivers proven surveillance and fire control solutions for the most demanding environments. By working with us, you will have access to advanced technology to safeguard and secure your most valuable assets.

With three decades of experience in engineering innovation, we offer world-class bespoke design and rapid prototyping services.

Chess develops and manufactures an extensive range of electro-optical (EO) tracking, and surveillance intelligent sub-systems, incorporating thermal imagers, TV cameras,

laser range finders, and radars. Users can control these platforms by joystick, auto-track, slew-to-cue, radar-cue, and/or remote sensor-cue for passive target detection, recognition, and identification.

EO systems can also be integrated for use in complete fire control and/or vehicle surveillance systems.

The comprehensive portfolio includes counter-sUAV (drone) protection systems, and Vision4ce branded real-time video and image processing solutions for electro-optic systems.

We don't push a product – we build relationships – and our experts offer high-quality survey, installation, training, and maintenance, across Chess's entire product range, including bespoke engineering solutions.

Chess Dynamics has been supplying equipment, sub-systems, and solutions to defence leaders and prime contractors since 2005. In 2018 a majority share in Chess was acquired by Cohort plc., and the company has been led by Group Managing Director, David Tuddenham, since 2021.

Designed by experts, built by specialists, maintained by professionals. We are Chess.

CHESS DYNAMICS



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SEAEAGLE[®]
Maritime Systems

www.chess-dynamics.com



SeaEagle Family of Maritime Systems

SeaEagle is a family of electro-optical systems that meets a broad range of maritime surveillance and gun fire control applications. System solutions are available for all classes of surface vessels; from fast interceptors and patrol boats, to major warships.



Advanced Image Processing

SeaEagle systems feature a video processing function that provides a high level of automation to the surveillance, acquisition, and tracking applications.

- Programmable horizon and sector scanning with automatic target detection
- Multiple target detection and acquisition
- Panoramic display of the scanned sector with detected targets labelled
- Automatic slewing to radar contact target indications
- Real time target tracking with automatic selection of tracking algorithm to suit target/background parameters
- Automatic cueing of multiple targets within field of view
- Automatic capture of target 'snapshot' images
- Graphical display of all system, target and ship data
- Digital video and data recording
- Artificial Intelligence & Auto Target Classification



Fire Control

SeaEagle systems can be configured for control of any in-service naval gun in various anti-air, anti-surface and naval gunfire support engagements.

A range of interface formats are available to match both new build and earlier design mountings.

Chess provides a full installation and trials service, including live firing trials and analysis.

- Range table based ballistic prediction including compensation for meteorological effects
- Surface (ASuW) engagements with semi-automated splash spotting
- Air (AAW) engagements in area and self-defence modes
- Naval Fire Support (NFS) engagements in direct and indirect modes with crest clearance
- Ability to conduct surface engagements using track-while-scan data from a surface search radar
- Ability to fire extended range ammunition
- Graphical display of all system, weapon, target, ship and meteorological data
- System can be integrated into and controlled from a Combat Mission System multi-function console or supplied with its own dedicated console or workstation



HAWKEYE[®]
Land Systems

www.chess-dynamics.com



Hawkeye Family of Land Systems

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



Hawkeye is a family of advanced multi-sensor surveillance and targeting systems from Chess Dynamics 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, while employing standard operating procedures, a low training burden, and an integrated support philosophy.



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
- Low Power
- Networked Video
- Georeferencing
- Joint Fires Terminal
- Laser Target Designator



VISION4CE[®]
**Video Tracking and
Image Processing**





About Vision4ce

Chess brand Vision4ce provides high performance video and imaging processing solutions for electro-optical systems. This covers the supply of rugged embedded hardware for harsh environments on land, sea and air, along with integrated software solutions incorporating sophisticated image processing algorithms, including object detection and tracking.

Our automated video tracking and image processing solutions present simplified, actionable information from even the most complex environments. We combine our extensive knowledge of defence and security challenges with proven video tracking and image processing technology to solve problems and reduce risk.

Flexible configuration capabilities enable system specifiers and architects to promptly meet their customers' requirements.

Our extensive knowledge and expertise is due to our rich heritage and experience in the defence and security space. Specialist EO understanding and capability sets us apart, and ensures our customers gain everything they need from a highly skilled and responsive team.



CHES DYNAMICS 

A COHORT PLC COMPANY



Customer Support Services **at Chess**





Partnering for Support

At the heart of every long-term partnership is a strong and trusted bond between customer and supplier. Here at Chess Dynamics our mission is to provide effective post-delivery services and solutions which meet our customers' operational needs.



Relationship management: our dedicated Services & Support team will work closely with you to ensure you receive the required services necessary to maintain exceptional levels of equipment reliability and performance.



Customised support: every customer has a unique set of needs. Here at Chess, our support services are designed to be adaptable and scalable, ranging from basic pay-as-you go services to customised Service Level Agreements.



Communication: we provide regular progress updates on all open issues in accordance with agreed reporting frequencies, allowing you to plan future activities with confidence.



Contact us: we look forward to meeting you to discuss your in-service support requirements and create your tailored solution.

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