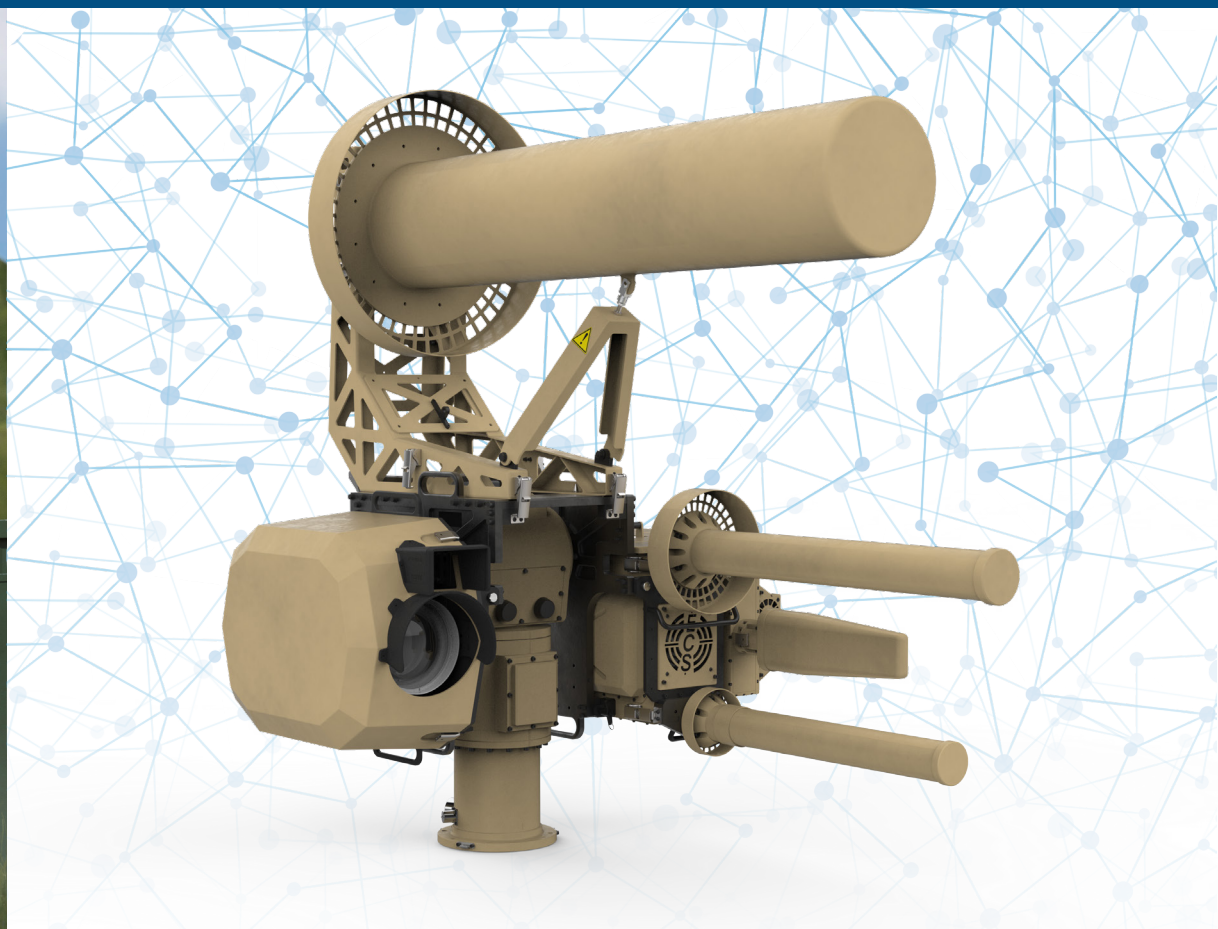
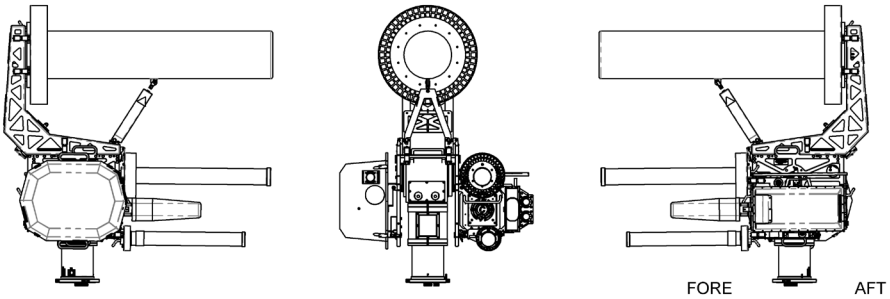
Counter-Unmanned Aerial System (C-UAS)
Data Sheet

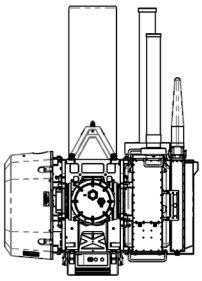


C-UAS
Counter-Unmanned Aerial System

Our Counter Unmanned Aerial Systems (C-UAS) from Chess Dynamics are designed to uncover and neutralise Unmanned Aerial Vehicles (UAVs) engaged in hostile airborne surveillance and malicious activity. They use a combination of advanced pulse-doppler cognitive radars, target detection, electro-optical sensors, and directional RF inhibition to provide 360-degree coverage and situational awareness. The systems are a smart-sensor and effector package which are equipped with advanced AI capabilities for target identification, classification, and tracking.

The systems maximise multiple sensors and fully integrate them into a Combat Management System (CMS). The CMS incorporates automatic signals, identification and tracking that keeps the user alert and aware. This allows a reduced manning profile, thus saving the user cost and time. The CMS is also sensor agnostic, which allows Chess to build a bespoke system best suited to the user requirements. All sensors are overlaid onto a unified map for situational awareness.





Mass	125kg for Multi-sensor head with Jammer 255kg for full surveillance system
Size	H: 1420mm W: 1024mm (MSH), 1220mm (radars) D: 1340mm
Swept Radius	Azimuth: 2080mm Elevation: 2430mm
End Stops/Range of travel	Azimuth: 360 degrees Elevation: +65 to -10
PSU	Input to system power distribution boxes: 240VAC 3KW
Control Interfaces	Ethernet

Typical sensor fit	TI, TV, LRF, Jammer, Surveillance Radars
TV Camera	36 to 0.75 degrees FOV. 720p resolution at least.
TI Camera	Horizontal FOV 23.9 to 1.7 degrees Vertical FOV 13.6 to 1.0 degrees 720P Resolution
Tracker	Options available
Additional System Components	PSU Junction Box Rugged PC
Typical use	Land based drone defence (detection, tracking, jamming)

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