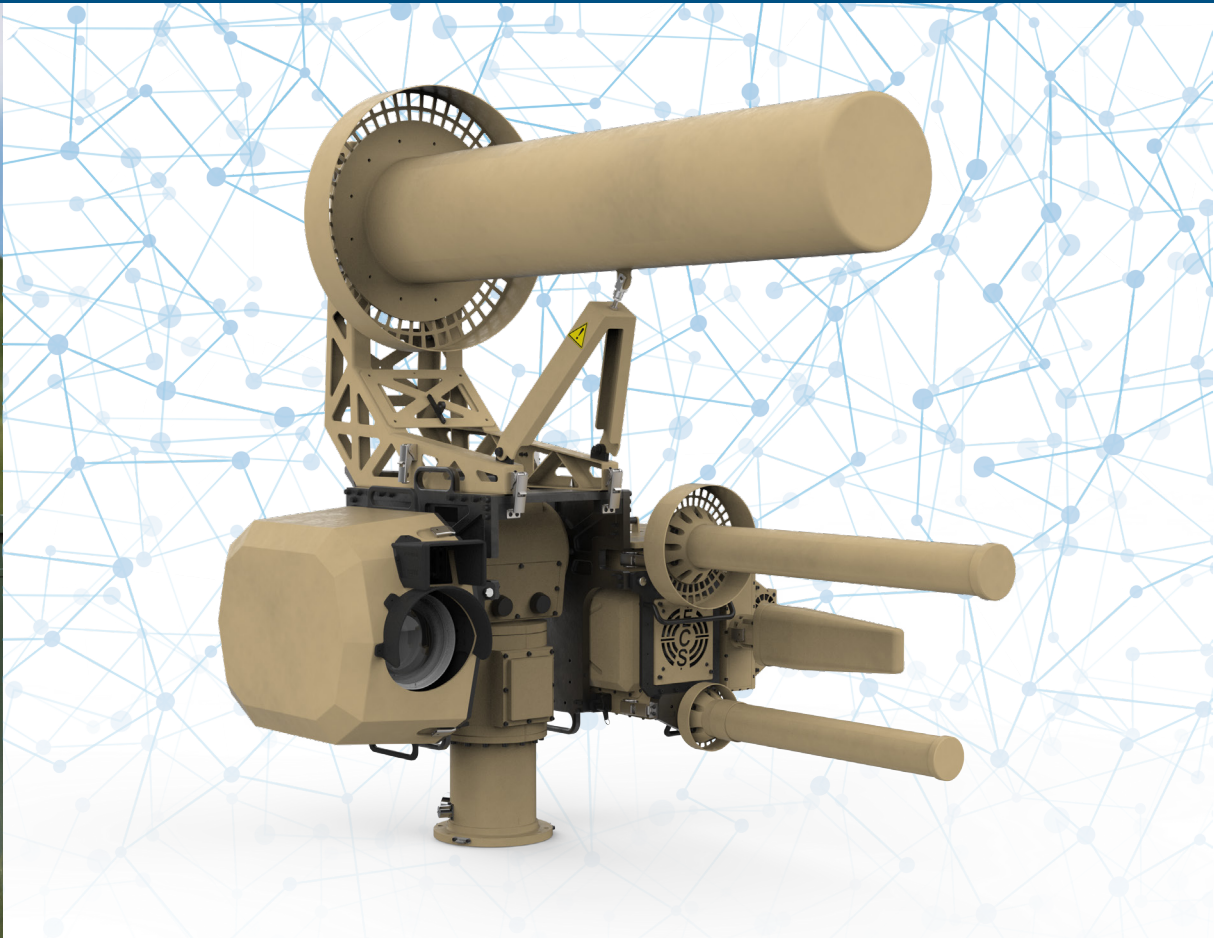


# Counter-Unmanned Aerial System (C-UAS)

## Data Sheet

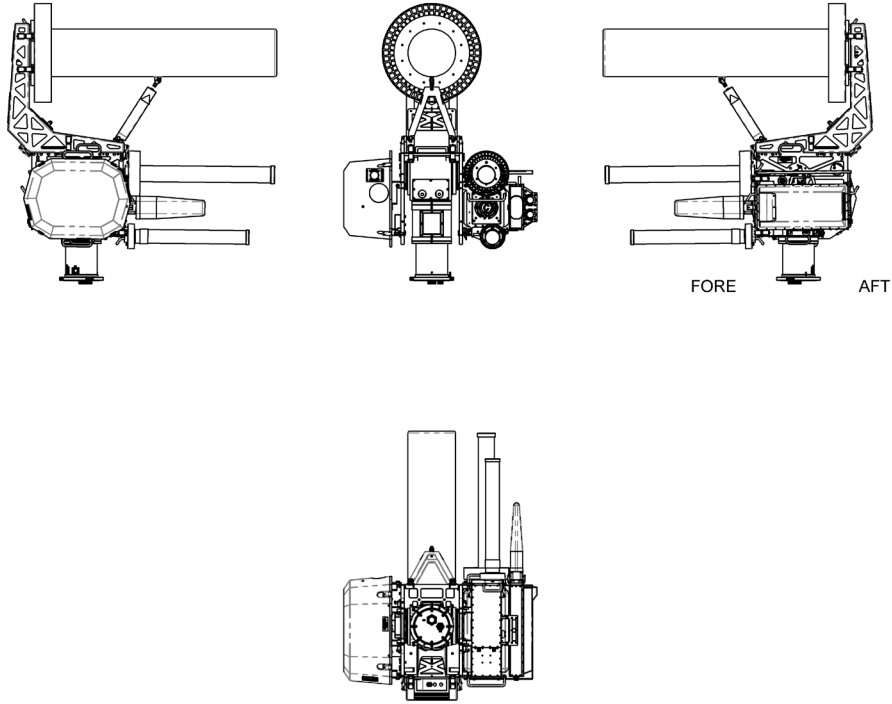


### C-UAS

#### 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	Typical sensor fit	TI, TV, LRF, Jammer, Surveillance Radars
Size	H: 1420mm W: 1024mm (MSH), 1220mm (radars) D: 1340mm	TV Camera	36 to 0.75 degrees FOV. 720p resolution at least.
Swept Radius	Azimuth: 2080mm Elevation: 2430mm	TI Camera	Horizontal FOV 23.9 to 1.7 degrees Vertical FOV 13.6 to 1.0 degrees
End Stops/Range of travel	Azimuth: 360 degrees Elevation: +65 to -10	Tracker	720P Resolution Options available
PSU	Input to system power distribution boxes: 240VAC 3KW	Additional System Components	PSU Junction Box Rugged PC
Control Interfaces	Ethernet	Typical use	Land based drone defence (detection, tracking, jamming)