



# COUNTER UAS EO PLATFORMS

Silent Sentinel is increasingly establishing itself as the go-to provider of electro optical (EO) platforms within the rapidly developing C-UAS market. Utilising the modular nature of the Jaeger platform, we are able to offer a full range of C-UAS related technology, including thermal/video target acquisition, video tracking, effector and soft kill mitigation. Working alongside systems integrators, we are able to offer a turnkey capability which can be easily integrated into a wider C-UAS solution and third party C2 software.

Having worked in the C-UAS market since its emergence, Silent Sentinel has a comprehensive understanding on how cameras and other sensors can be used and integrated into a broader C-UAS system. Working with systems integrators, Silent Sentinel is able to use our experience to offer advice and expertise on how best to utilize and integrate these EO systems.



Above: Jaeger PTU with 360° ring camera fitted above the through shaft

## CAPABILITIES

**POSITIONING:** Both accuracy and speed are critical for C-UAS applications. By utilising harmonic drive gears, we can provide pinpoint accuracy which is vital when trying to detect small targets at range. Combined with our latest motor driver technology that can deliver pan and tilt speeds in excess of 100° per second, it helps to provide fast target acquisition and tracking capabilities at both short and long ranges.

**TRACK:** Reliable video tracking is imperative for any C-UAS system. Silent Sentinel utilise industry leading video trackers with a growing emphasis on auto classification and AI capabilities.

**OBSERVE:** Silent Sentinel offer a wide range of sensor types to meet nearly all missions and budgets. Offering a comprehensive range of both cooled (MWIR) and uncooled (LWIR) thermal sensors, combined with the latest HD visible sensors, we are able to provide clear target verification and threat analyses.

**MITIGATION:** Silent Sentinel can provide a range of mitigation technologies ranging from effector capabilities (jamming) through to soft kill options such laser dazzlers and long range illuminators.

## Key Features:

- Long range advanced uncooled (LWIR) thermal sensors
- Long range lowlight HD sensors
- Long life cooled MWIR thermal sensors
- Advanced video tracking (at the edge)
- Jaegar top mount allows RADAR or other detection capabilities to be mounted above the camera platform
- Fully integrated jammers/effectors and soft kill technologies
- Common camera software across all platforms for ease of integration

## C-UAS CONFIGURED PLATFORMS

### Jaegar Platform

The Jaegar is a highly accurate camera platform capable of supporting multi-sensor technologies, making it ideal for C-UAS applications. The Jaegar range benefits from a fixed through shaft, which can enable payloads such as a RADAR to be mounted directly above the PT director.

Due to its modular design, the Jaegar PTU can accommodate a range of jammers/effectors along with short to long range EO sensors.

#### SENSOR OPTIONS INCLUDE:

- LWIR uncooled thermal sensors with zoom lens options up to 40-300mm
- MWIR cooled thermal sensors with zoom lens options up to 45-900mm
- HD (1280x720) MWIR cooled thermal sensor with zoom lens (80-960mm)
- HD visible sensors with zoom lens options up to 16.7-2000mm (with 2x extender on)



Jaegar Ranger 225



Jaegar Searcher 900



Jaegar ULR



Aeron Ranger 150

### Aeron PTZ Camera

The Aeron offers a more cost effective capability for shorter range applications. Available with both cooled (MWIR) or uncooled (LWIR) thermal sensors and a 30x zoom HD visible sensor, the Aeron's compact size makes it ideal for mobile C-UAS applications.

#### SENSOR OPTIONS INCLUDE:

- LWIR uncooled thermal sensors with zoom lens options up to 25-150mm
- MWIR cooled thermal sensors with zoom lens options up to 15-300mm
- HD visible sensor with a zoom lens up to 4.3-129mm



*Silent Sentinel provide advanced and highly modular surveillance camera platforms for land and maritime applications.*

*By combining industry leading video and thermal technology, Silent Sentinel is able to deliver precise reconnaissance of small targets at long range, and in challenging environments.*

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