



PERIMETER AND BORDER SECURITY SOLUTIONS

WWW.SILENTSENTINEL.COM

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 recognisance of small targets at long range, and in challenging environments.



Scandinavian Airport Perimeter Application



Wildlife Protection Application, Africa

BORDER AND PERIMETER OFFERING

Silent Sentinel has been manufacturing cameras for the border and perimeter security sector from its conception with the launch of the highly ruggedized, and at the time unique, Oculus PTZ camera.

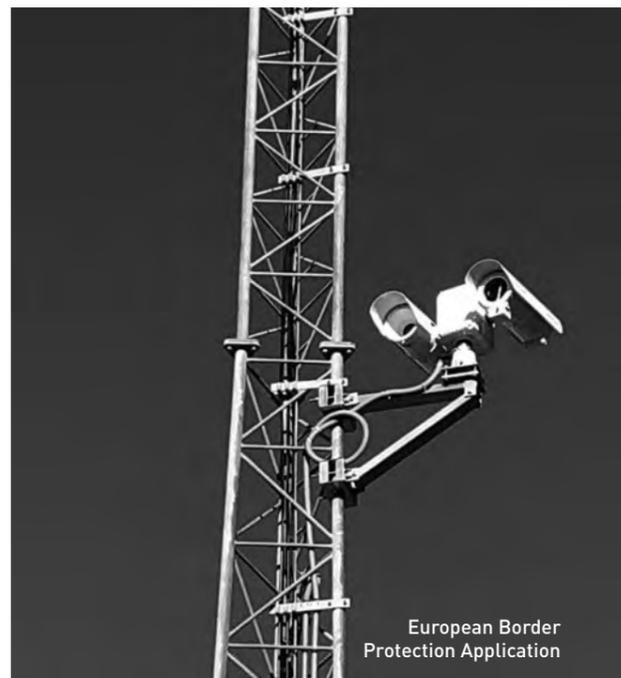
From that starting point, there has been the introduction of longer-range optics, both visible and thermal, which has seen Silent Sentinel's reach into this market sector grow. Silent Sentinel now offer some of the most capable camera systems into this vertical.

Today, Silent Sentinel cameras are deployed globally, in some of the most challenging environments, protecting critical infrastructure, perimeters and borders from hostile threats.



SILENT SENTINEL UNDERSTAND THE EVOLVING DEMANDS OF THE BORDER AND PERIMETER SECURITY MARKET, AND OUR SOLUTIONS INCLUDE...

- Highly ruggedized camera platforms designed to meet the harsh and challenging environment associated with the sector.
- Solutions with precise and highly accurate positioning capabilities.
- Absolute positioning feedback to aid third party C2 integration.
- Long range thermal and visible sensors.
- Enhanced imaging through mist and fog with SWIR (short-wave infrared) cameras.
- Modular design to aid continuous operation.
- Counter Drone (CUAS) capabilities.
- Vehicle mounted camera platforms.



CHALLENGES >>> SOLUTIONS

1

REMOTE AND CHALLENGING ENVIRONMENT

Our camera platforms are highly ruggedized and designed to perform in harsh and challenging environments, and are all tested to an IP67 environmental standard.

2

CONTINUOUS OPERATIONS

The modular design of our Osiris and Jaegar platforms allows for easy replacement of cameras for repair or service. Our advanced uncooled LWIR cameras provide industry leading detection capabilities without the need of servicing.

3

LONG RANGE DETECTION AND POSITIONING

We provide a wide selection of long-range visible and thermal sensors. These are complemented by our harmonic drive gears which provide accurate and precise positioning.

4

TARGET DETECTION AND VERIFICATION

Our platforms can be linked to various detection capabilities, such as ground surveillance radars and PIDS (perimeter intrusion detection systems), to aid the detection of potential threats.

5

ENGAGE AND DETER

The modular design of our camera platforms means they can be complemented by long range acoustic devices, illuminators and laser dazzlers to provide a passive non-lethal deterrent.

CAMERA PLATFORMS

JAEGAR

The Jaegar is our most capable camera platform and supports our longest-range sensors. Combining advanced motor drive technology with harmonic drive gears, all Jaegar camera platforms are able to position our longest range sensors accurately and quickly. Options include long range illuminators, acoustic hailers, SWIR cameras, and radar due to the Jaegar's top mount.

Thermal fixed or zoom lens options (up to 960mm) combined with HD and 4K visible cameras with zoom lens options up to 2000mm.



Jaegar Searcher 900 (MWIR)

OSIRIS

The Osiris camera platform is an accurate, high specification, mid to long range PTZ camera platform capable of supporting multi-sensor technologies, including long range illumination. With the option of harmonic drive gears, the Osiris is highly accurate with almost zero backlash.

Thermal fixed or zoom lens options (up to 225mm LWIR and 300mm MWIR) combined with HD and 4K visible cameras with zoom lens options up to 1000mm.



Osiris Ranger 225 (LWIR)

AERON

The Aeron is a compact yet highly capable mid range surveillance camera that can provide cooled thermal vehicle detection up to 20km. Also available in the Aeron range is a selection of fixed and zoom uncooled (LWIR) thermal lenses, as well as illumination options.

Thermal fixed or zoom lens options (up to 300mm) combined with HD and 4K visible cameras with up to 30x zoom.



Aeron Searcher 275 (MWIR)

OCULUS

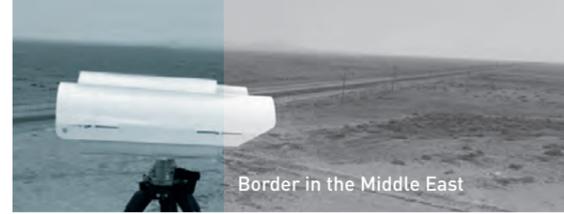
Oculus cameras are able to provide HD video or dual thermal video outputs and ideally suited for shorter range applications.

Thermal fixed lens option (up to 50mm) combined with HD and 4K visible cameras with up to 30x zoom.

Oculus Scout 50 (LWIR)

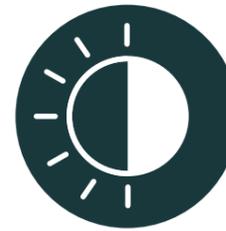


KEY TECHNOLOGIES



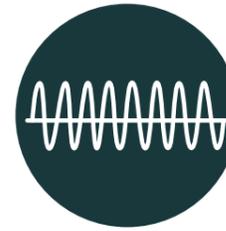
VISIBLE VIDEO

Silent Sentinel has a wide choice of HD, 4K and ultra-low light video options. By combining these camera modules with industry leading lenses, we are able to provide optical target identification at long ranges, in adverse weather, and in low light conditions.



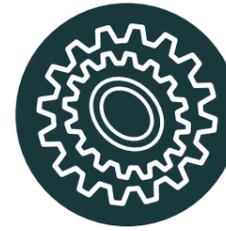
THERMAL

With an expertise in longer range uncooled LWIR thermal sensors, Silent Sentinel offer some of the most advanced and longest range thermal detection capabilities available. Silent Sentinel can also provide a range of cooled MWIR sensors that deliver high levels of thermal contrast and long range detection capabilities.



SWIR

SWIR (short-wave infrared) technology has seen a growth in interest from the video surveillance sector due to its ability to provide clear enhanced images in poor weather conditions such as rain and mist.



HARMONIC DRIVE

Our Osiris and Jaegar platforms utilise German engineered Harmonic Drive gears which provide very accurate, high torque positioning and with almost zero backlash; vital when observing targets at long ranges.



ENVIRONMENTAL

Our cameras have been designed to meet the most challenging environments and are well suited to exposed and remote installations often associated with border and perimeter type applications.



ENGAGEMENT

Silent Sentinel can offer a range of options to provide operator engagement with a potential target, such as long range laser dazzlers, illuminators, and directional acoustic hailers.



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