




# MARITIME & COASTAL SURVEILLANCE SOLUTIONS

[WWW.SILENTSENTINEL.COM](http://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.

Johor Port, Malaysia

## MARITIME & COASTAL OFFERING

Silent Sentinel camera platforms have been specifically designed to meet the challenges of shore based maritime surveillance, such as VTS and maritime security type applications.

Providing a suite of camera platforms to meet a variety of surveillance requirements associated with the maritime sector, Silent Sentinel has many years of experience delivering into this highly specialised market.

Melbourne, Australia

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# CHALLENGES >>> SOLUTIONS

1

## HARSH AND CHALLENGING OPERATIONAL ENVIRONMENT

Our camera platforms are highly ruggedized and designed to meet the harsh and challenging environment associated with the sector.

2

## CONTINUOUS OPERATIONS

Designed to be low maintenance. Our LR advanced uncooled range offers a high performance thermal capability with no cooler servicing, and continuous operations 24 hours a day.

3

## LONG RANGE DETECTION AND POSITIONING

We provide both cooled (MWIR) and uncooled (LWIR) camera platforms that allow long range detection and have precise and highly accurate positioning capabilities.

4

## POOR VISIBILITY

To tackle poor visibility, often encountered in the sector, we offer SWIR (short-wave infrared) technology, as well as low light and ultra-low light HD/4K visible cameras for day and night vision.

5

## SYSTEM INTEGRATION

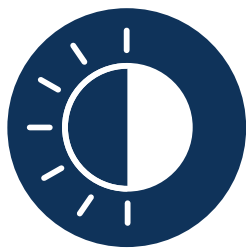
Ease of integration is facilitated by absolute positioning feedback and open protocols.

# KEY TECHNOLOGIES



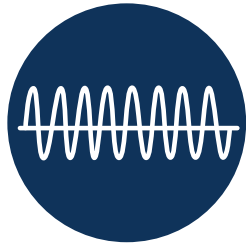
## VISIBLE VIDEO

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 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 in this category. By using these advanced uncooled sensors, clients are able to achieve high quality thermal detection with a significantly reduced cost of ownership when compared to an equivalent cooled MWIR sensor. 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 maritime sector due to its ability to provide clear enhanced images in poor weather conditions such as rain, haze, 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 ELEMENTS

The marine environment is one of the harshest and most challenging environments to install surveillance equipment in. Our cameras are designed with consideration to the maritime environment from conception, with all our cameras having an IP67 level of environmental protection, combined with maritime specific paint finishes and pre-treatments.

# 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.

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  
900mm (MWIR)



Osiris LR 225mm (LWIR)

## OSIRIS

The Osiris camera platform has been the most popular choice to the maritime surveillance sector for many years, and continues to provide cost effective, accurate long range surveillance.

Thermal fixed or zoom lens options (up to 300mm) combined with HD and 4K visible cameras with zoom lens options up to 500mm.

## AERON

The Aeron is a compact yet highly capable mid range surveillance camera, and can provide cooled thermal detection of small vessels up to 20.1km.

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



Aeron Ranger  
105 (LWIR)

Oculus Scout  
50 (LWIR)



## OCULUS

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

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

# POPULAR OPTIONS

## LASER DAZZLER

Laser dazzlers are frequently used for target designation, or as an effective deterrent in remote and unmanned scenarios.



## ILLUMINATORS

Silent Sentinel provide short to long range illumination technologies that can be combined with cameras.

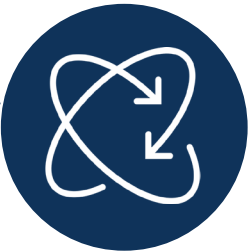
These includes IR, white light, SWIR, laser and hybrid.



## GYRO STABILISER

Our two axis gyro stabiliser ensures clear and steady images in offshore applications.

Frequently used in maritime, vehicle, and mobile surveillance applications.



## ACOUSTIC HAILER

Our directional acoustic hailing device is capable of the precise delivery of long-range sound (speech) of ranges up to 1km.



## RADAR

Our camera platforms provide absolute positioning feedback to allow seamless radar integration.





Silent Sentinel Ltd

1-2 Riverside,  
Stanstead Abbots,  
Ware, Hertfordshire,  
SG12 8AP,  
United Kingdom

+44 (0) 1920 871734

[info@silentsentinel.com](mailto:info@silentsentinel.com)

[www.silentsentinel.com](http://www.silentsentinel.com)