

# Success Story

## Video based wide area surveillance and alarming system

The companies Funkwerk video systeme (Germany) and Protoclea Advanced Image Engineering (Republic of South Africa) have joined forces in deploying a terrain scanning system that offers protection against poaching.

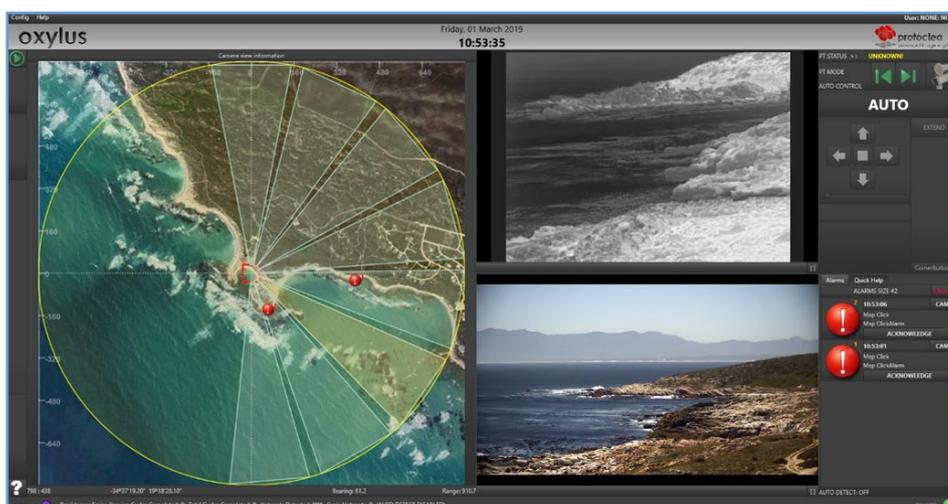
The two main system components are the complete PTZ-unit Platon NEO from Funkwerk video systeme featuring an all stainless steel pan/tilt-head with double enclosure. One enclosure houses a day/night camera with a capable motorised zoom lens, the second enclosure is fitted with a performant thermal camera with a fixed focal length lens. Both enclosures are equipped with window heating and wiper to avoid image irritations due to a moisturised or with rain drops covered window. The Platon NEO is a robust and highly precise pan/tilt-unit, fully supporting IP and designed for the harshest environments ranging from alpine regions to desserts and coastal areas – just to name a few. Its 360° continuous panning and +/- 90° tilt capability are ideal capabilities to deliver exactly the video footage needed for the second main system component – the evaluating and alarming software application is Oxylus from Protoclea.

Oxylus makes use of the image information supplied by the thermal camera in the Platon NEO, detects any temperature threshold and motion and records that as a cluster of heat emitting points. Oxylus geo-locates all clusters so that the detected objects can be made visible with their exact location on a map of the surveyed area. In case suspicious behaviour is triggered or specific zone breaches are detected, an alarm is raised.

Currently this system is used by two Abalone farms in the Republic of South Africa, one site was installed in Q4/2018, the installation of the second site is in Q1/2019. The operators of the system are very satisfied as they are getting alarmed very early and reliably of the approach of potential poachers and other intruders.



Platon NEO double enclosure version



Oxylus software showing the map with scanned sectors, image of D/N- & thermal camera as well as raised alarms



Mast with Platon NEO on top