

# Thermal Cameras Securing a Residential Community

**Thermal Cameras and Intelligent Video Analytics Monitor a Perimeter of over 7km.**

## Residential Estate, Gauteng, South Africa

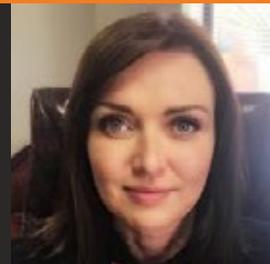
### SCENARIO:

In the heart of Gauteng, South Africa, the Southdowns Residential Estate captures the very essence of the area's natural beauty. The development spans approximately 200 hectares, including 750 residential sites, conservation corridors, and agriculture. Residents can use the wide-open spaces to walk, hike, cycle, or relax.

Looking to protect the estate from possible intruders engaged in criminal activities, Southdowns implemented conventional security measures, such as electric fencing with zone indication of intrusion detection, roving guards, reactive vehicles, and a central control room. While these are still standard security measures, many estates find them insufficient to detect and prevent risks.

The perimeter of Southdowns is about 7.2km long, and the estate's management needed a system that would provide instant visual verification, day or night, of any breach, as well as its cause and position. Moreover, the northern boundary has river frontage and dense vegetation; this type of landscape makes it challenging to maintain electric fencing. Southdowns homeowners felt strongly about not erecting additional lighting around the estate's perimeter, as it is centered on the old Irene Dairy Farm and wished to preserve its aesthetic nature. Since the development is eco-friendly in nature, they wanted a green security solution that would provide:

- 24/7 intruder detection
- Protection of a 7.2km perimeter including river frontage and dense vegetation
- Instant visual verification of cause and position of any breach
- Environmentally friendly solution with no projectors and low power consumption
- Minimum number of poles



**Blanca Pretorius**

**Managing Director EBS Security Services.**

The Sii thermal camera produced the crispest and most detailed picture enabling accurate video analytics. Such quality reduces false alarms and helps maintain control room personnel on alert. We were further impressed by Opgal's commitment and dedication to the project. They met our aggressive delivery schedule and provided excellent technical support.





## SOLUTION

Around ten years ago, Opgal's Sii thermal imaging solution was evaluated and offered substantial advantages over competing products. Southdowns Residential Estate was fitted with 20 Opgal thermal cameras with video motion detection (VMD) to monitor the perimeter.

Today, the cameras are still operating. With Opgal's South African partner, an upgrade plan to replace the older thermal cameras for the more modern Sii OP thermal cameras is progressing.

Southdowns achieved what they set out to accomplish – a virtual perimeter providing instant visual verification of any breaches 24 hours a day. Control room operators can view the entire estate boundary and make the necessary decisions on what responses need to be taken in case of a security risk.

The perimeter security solution can now detect intruders on the darkest night and at distances up to 500m. This enables control room operators to make informed decisions and dispatch an armed response team to the correct area.

Today, Southdowns Residential Estate residents enjoy a higher sense of security with an eco-friendly solution while maintaining the estate's tranquil atmosphere.



## Sii OP Key Features



### Onboard VMD Analytics

Identification and analysis of raw video data, with no need for a human operator.



### Cybersecurity Ready

Regularly tested against an application security verification standard to ensure peace of mind.



### Multiple Lens Options

A wide range of lens options to ensure effective coverage for all projects.



### Compact & Feature Rich

Simultaneous HD visual and VGA or QVGA thermal channel in one compact unit.



### Easy Integration & Compatibility

ONVIF conformity ensures simple integration into new or existing infrastructures.



### Rugged Design

Ruggedly designed to withstand the harshest environmental conditions.

