LOGO

Ibex Aerial

SAMPLE REPORT

Solar thermography inspection report.

Commercial rooftop PV system. A real inspection, anonymised so you can see exactly what your report will contain.

> The client name, logo, address, map, GPS coordinates and site identifiers have been removed. All figures and images are taken from the original inspection.

SITE TYPE	METHOD	CAPTURE
Commercial rooftop	Drone radiometric thermography	DJI Mavic 3T, thermal + wide

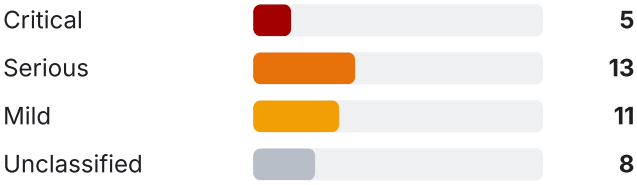
01 · EXECUTIVE SUMMARY

37 anomalies found. 5 need action first.

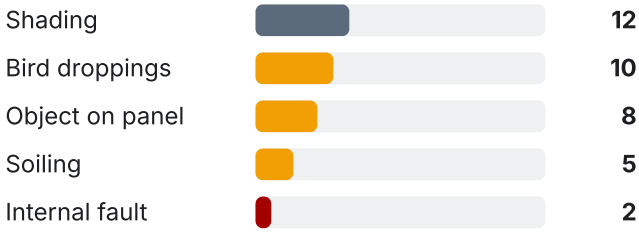
The scan covered every module on the roof. Each anomaly was classified by type, cause and severity so the repair team can work from the top of the list down.

37	5	13	16.4°C
Anomalies found	Critical	Serious	Highest ΔT

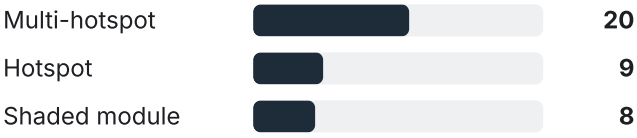
Severity



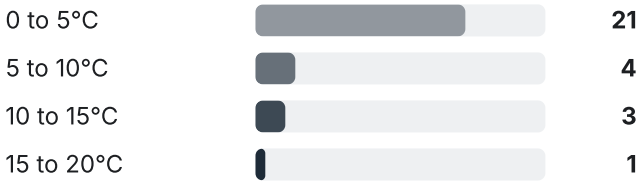
Likely cause



Anomaly type



Hotspot temperature difference



What to do first

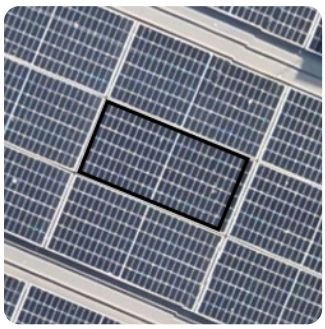
1. **Clean the affected modules.** 23 of 37 anomalies (62%) come from bird droppings, dirt or objects. These are the cheapest fixes on the list.
2. **Remove or move shading obstructions.** 12 anomalies are caused by shading, including the hottest finding at +16.4°C.
3. **Re-check the 5 critical modules after cleaning.** Two of them are estimated to be losing 25% and 32% of their output.
4. **Refer the 2 internal faults to the installer** for a warranty assessment.

02 · CRITICAL FINDINGS

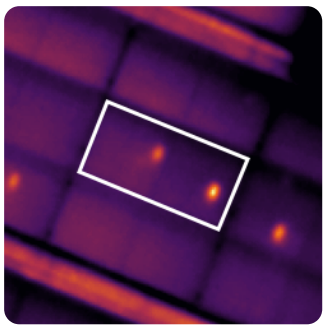
Every fault, with the evidence.

Finding 07 · Multi-hotspot

CRITICAL



VISUAL



RADIOMETRIC · 36 to 47°C

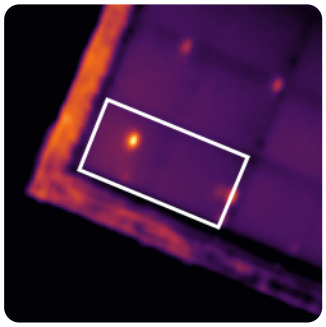
Cause	**Bird droppings**
Δ temperature	**8.5°C**
Max / mean	**46.9 / 38.4°C**
Est. module loss	**25.4%**
Action	**Clean**

Finding 08 · Multi-hotspot

CRITICAL



VISUAL



RADIOMETRIC · 35 to 52°C

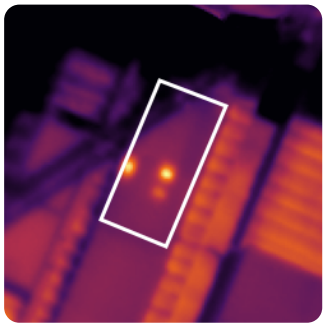
Cause	**Bird droppings**
Δ temperature	**12.7°C**
Max / mean	**52.3 / 39.6°C**
Est. module loss	**32.0%**
Action	**Clean**

Finding 28 · Multi-hotspot

CRITICAL



VISUAL



RADIOMETRIC

Cause	**Shading**
Δ temperature	**16.4°C**
Severity	**Critical**
Action	**Move obstruction**

In the full report every one of the 37 anomalies has its own page like these, with GPS coordinates for the affected module. Coordinates are removed from this sample.

03 · METHOD AND NEXT STEPS

How the inspection is done.

Capture conditions

- Flown around midday in clear, stable sunshine of at least 600 W/m²
- Low wind, so panels are not cooled and faults stay visible
- Panels cleaned 1 to 3 days before the flight
- Planned around IEC 62446-3, the standard for PV thermography

How severity is graded

- **Critical:** large temperature difference or a fire or damage risk. Act now.
- **Serious:** clear output loss. Fix at the next maintenance visit.
- **Mild:** small loss. Monitor and re-check at the next scan.

Defect register (excerpt)

#	TYPE	CAUSE	ΔT	SEVERITY	ACTION
07	Multi-hotspot	Bird droppings	8.5°C	Critical	Clean
08	Multi-hotspot	Bird droppings	12.7°C	Critical	Clean
28	Multi-hotspot	Shading	16.4°C	Critical	Move obstruction

What your inspection includes

SOLAR

From R12,500

Solar Health Check. Thermal and visual scan with engineer-reviewed report.

MOST POPULAR

Solar + R4,000

Solar + Roof Combo. Roof condition check on the same visit.

ROOFS

From R9,500

Roof and Asset Inspection with annotated condition report.

Prices exclude VAT. Travel within 30 km of Stellenbosch is included. Beyond that, travel is R5 per km for each extra kilometre, there and back. Preliminary hotspot summary within 3 working days, full report within 15 working days.

Book your inspection

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