

Intelligent Building Asset Management

Digital building intelligence, aerial inspection and thermography for modern property portfolios



Example Hawk360 portfolio view combining mapped building context with inspection markers and thermal data.

Whole-building visibility

Digital inspection data for roofs, facades, gutters, drainage details, external fabric, roof plant and PV assets.

Actionable defects

Issues are pinned to a shared visual model with severity, notes, imagery and remedial actions.

Portfolio intelligence

Compare defects, severity and maintenance priorities across multiple sites from a single dashboard.

The Hawk360 Platform

Hawk360 turns inspection imagery into an accessible digital environment where building assets can be viewed, measured, reviewed and monitored over time. Rather than relying on static reports alone, asset managers, surveyors and contractors can work from the same visual record.



High-resolution visual model with inspection issues mapped directly to the building asset.

Shared source of truth

Visual, thermal and analytical data held in one place.

Remote review

Reduce the need for early-stage access, scaffolding or repeat site visits.

Issue tracking

Prioritise defects by severity, component, issue type and status.

Better scoping

Give contractors clear visual context before attending site.

From Roof Intelligence to Whole-Building Asset Intelligence

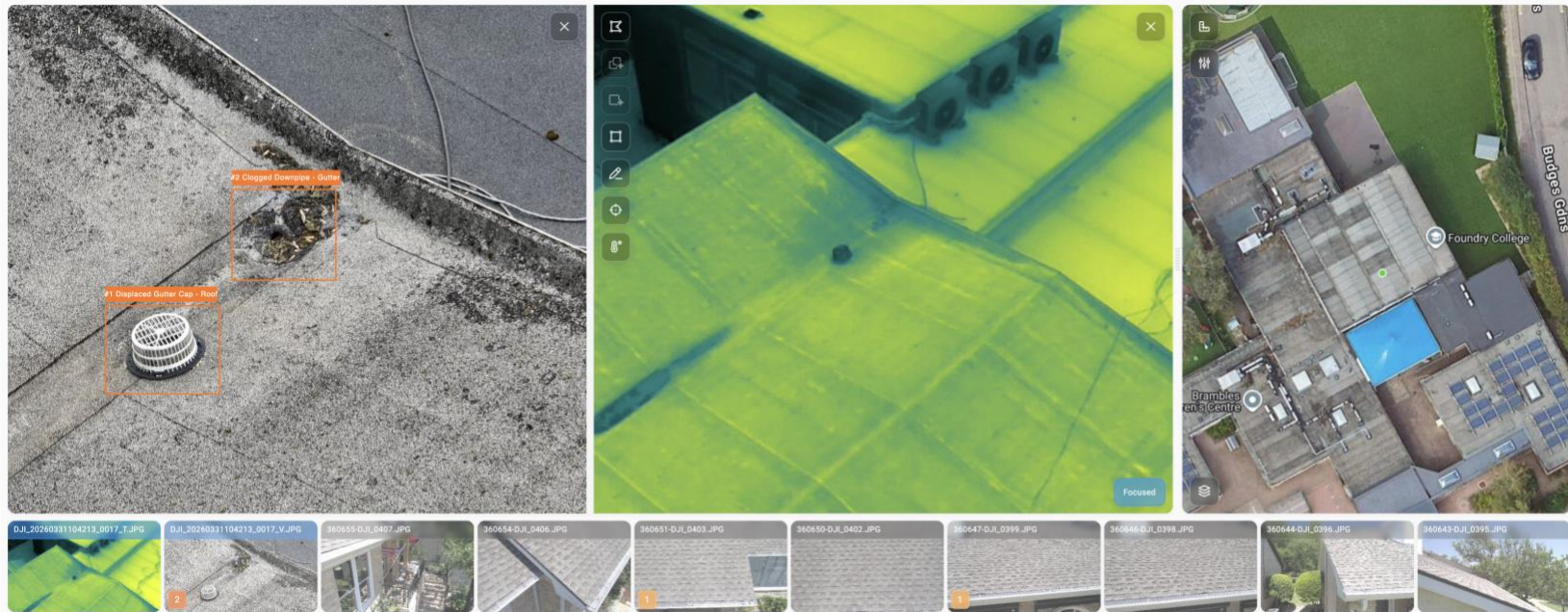
Hawk360 supports condition assessment, maintenance planning and evidence-based decision making across the whole building.

Building elements Hawk360 can support

- Flat and pitched roofs, coverings, membranes, parapets, upstands and termination details.
- Facades, elevations, brickwork, render, cladding, balconies and external finishes.
- Rainwater goods, gutters, outlets, downpipes, drainage routes and areas at risk of water retention.
- Roof plant, access equipment, safety systems, walkways, guardrails and service penetrations.
- Solar PV arrays, mounting systems, ballast, cabling routes, inverters and visible electrical defects.

Why this matters for property portfolios

A roof defect, drainage issue, facade defect or PV fault is rarely isolated from the rest of the building. By capturing the wider building context, Hawk360 helps teams understand how defects relate to access, drainage, exposure, vegetation, neighbouring structures and existing maintenance constraints.



Thermal, visual and map-based inspection views support rapid understanding of building condition and defect location.

Solar Panel Thermography

Hawk360 can incorporate solar PV thermographic inspections as part of wider building asset management. Thermal data helps identify modules or areas operating abnormally under suitable irradiance and operational conditions, supporting targeted maintenance and reduced downtime.

Hotspots and overheated cells

Locate modules with abnormal heat signatures that may indicate soiling, shading, cell damage, diode faults or electrical issues.

Module-level evidence

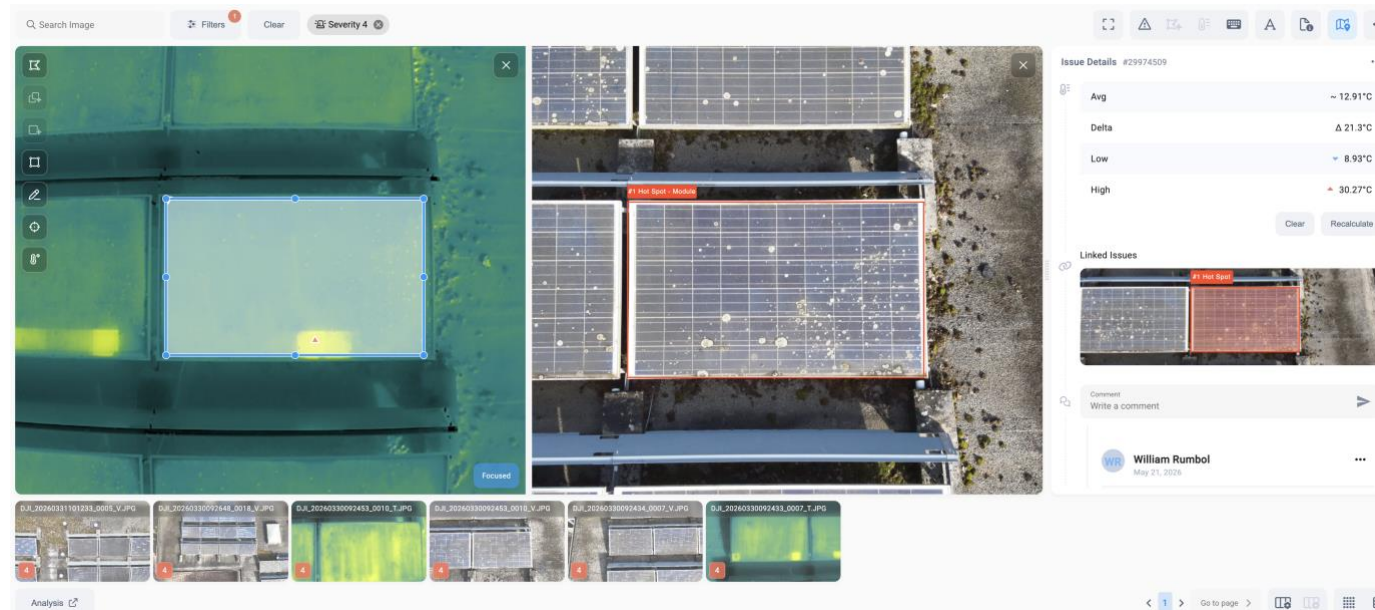
Link thermal images, visual images and issue details directly to the affected panel or array area.

Soiling and shading patterns

Identify lichen, dirt, bird fouling, vegetation shadowing and other causes of reduced performance.

Prioritised remedial action

Classify issues by severity and recommend cleaning, monitoring, electrical testing, isolation or replacement where appropriate.



Example issue record showing a module hotspot, linked RGB imagery, remedial action and measured temperature values.

Typical PV outputs

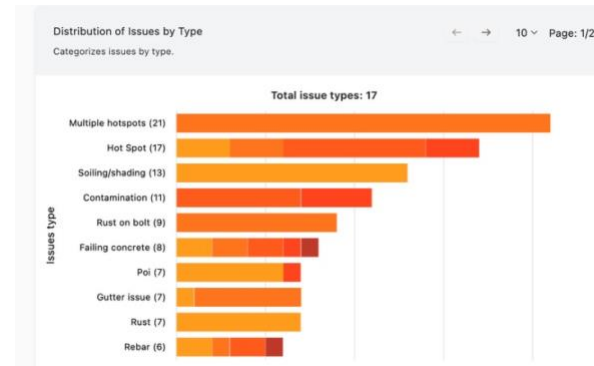
- Portfolio dashboard for recurring issues, component types and unresolved defects.
- Severity ranking and recommended remedial actions.
- Evidence for cleaning programmes, warranty support and post-remedial checks.

Portfolio Dashboards and Defect Analytics

Hawk360 does not only capture inspection images. It aggregates issues into useful management information so asset teams can see the overall condition profile of a site or portfolio.

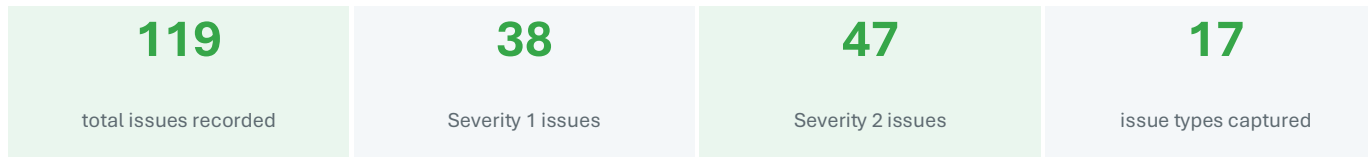


Severity distribution dashboard



Issue type distribution dashboard

Example dashboard metrics



Management value

- Filter defects by severity, status, issue type, component or inspection date.
- Identify repeat failure types such as roof leaks, hotspots, gutter issues, rust, failing concrete or other external defects.
- Support budget forecasting and capital works prioritisation using consistent issue data.
- Create a record that can be revisited after remedial works, cleaning programmes or future inspections.

Applications Across Residential Portfolios

For residential portfolio owners and operators, Hawk360 provides a scalable way to understand condition, reduce access requirements and improve collaboration between internal teams and external contractors.

Planned maintenance Condition reviews, lifecycle planning, budget forecasting and capital works prioritisation.	Reactive maintenance Storm damage assessments, leak investigations, defect validation and contractor scoping.
Building fabric reviews External envelope checks, water ingress pathways, facade defects, drainage constraints and access planning.	Solar and sustainability PV thermography, solar feasibility reviews, roof utilisation and evidence for ESG-led improvements.
Compliance and governance Digital asset records, audit support, evidence-based decision making and consistent portfolio reporting.	Resident experience Proactive maintenance planning that reduces disruption and supports faster issue resolution.

Why Clients Choose Hawk360

- Interactive 3D/2D building intelligence rather than one-off static reports.
- Rapid deployment across single buildings or wider portfolios.
- Reduced working-at-height exposure during early-stage assessments.
- Clear visual evidence to support decision making, maintenance and contractor management.
- Scalable inspection records that become more valuable as repeat surveys are completed.
- Ability to combine building condition data with solar PV thermography and performance risk indicators.

Our Approach

1. Define the brief

Agree portfolio priorities, building types, areas of concern, access constraints and reporting requirements.

2. Capture the data

Collect high-resolution visual and thermal data using appropriate drone platforms and inspection methods.

3. Build the digital asset

Process imagery into mapped views, models, issue registers and platform-ready inspection records.

4. Analyse and prioritise

Classify defects, PV thermal issues and maintenance risks by component, severity and recommended action.

5. Share and maintain

Provide a living digital record for internal teams, consultants and contractors, with repeat inspections added over time.



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