

CREOPLAN THERMAL CAPABILITIES



Advanced Thermal Imaging for Property Management

CreoPlan delivers comprehensive thermal survey solutions using state-of-the-art UAV technology. Our DJI M350 RTK platform equipped with the H30T thermal camera provides detailed thermal analysis for building envelope assessment, enabling property managers to identify and address thermal inefficiencies effectively across their property portfolio.



The Technology

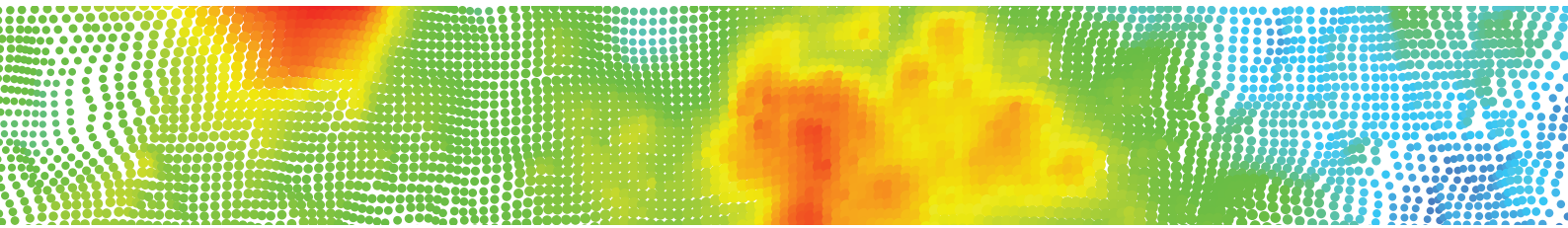
Our survey technology comprises two key components:

DJI M350 RTK Enterprise Platform:

- Industry-leading stability for precise data capture
- All-weather operation capabilities
- Extended 55-minute flight time
- RTK positioning for centimetre-accurate data capture
- Intelligent obstacle avoidance system
- Dual pilot control capability
- IP45 rated weather resistance

H30T Advanced Thermal Camera:

- High-resolution 640x512 thermal sensor
- Simultaneous visible and thermal capture
- Temperature measurement accuracy of $\pm 2^{\circ}\text{C}$
- Advanced radiometric data collection
- 40x zoom visible camera
- Wide-angle 20MP visual lens
- Split-screen viewing capability



Survey Capabilities & Applications

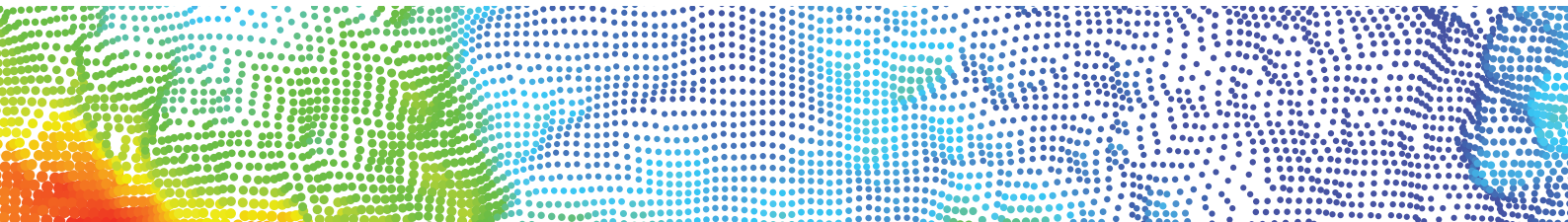
Our advanced thermal imaging technology allows us to conduct detailed assessments of building performance and identify various issues that might otherwise go undetected. We can precisely locate heat loss through building fabric, revealing areas where insulation may be missing or damaged. The system excels at identifying moisture ingress and damp issues before they become visible to the naked eye, allowing for preventative maintenance rather than costly repairs.

The technology is particularly effective in detecting cold bridging problems throughout the building envelope, as well as pinpointing specific defects in flat roofing systems. This comprehensive approach to thermal surveying ensures that building managers can make informed decisions about maintenance and energy efficiency improvements.



Professional Process

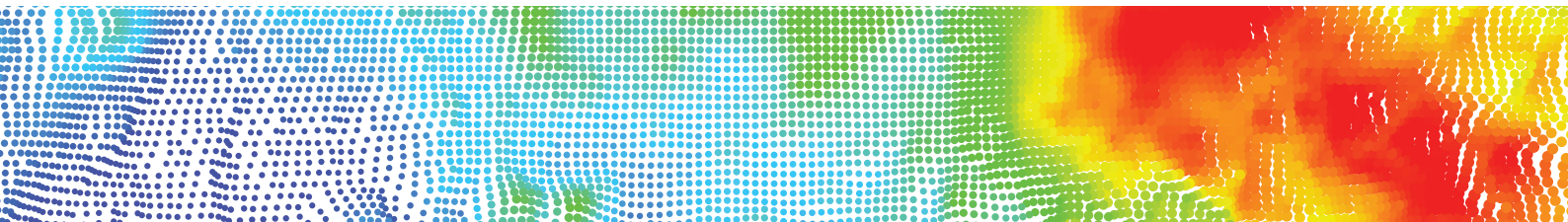
Our thermal surveys are conducted by A2 CofC qualified pilots who understand both the technical requirements of UAV operation and the principles of thermal imaging. The collected data is processed by our specialist thermal imaging analysts who can interpret the subtle variations in thermal patterns to identify potential issues. This processed data is then seamlessly integrated into our CreoViewer platform, creating a comprehensive record of thermal performance that can be accessed and analysed over time.



Practical Value

The implementation of our thermal survey capability delivers significant practical benefits for property managers. By identifying heat loss early, organisations can substantially reduce energy costs while improving resident comfort. The ability to detect hidden moisture and structural issues before they become visible allows for targeted maintenance interventions, preventing more extensive and costly repairs later.

Our thermal surveys support compliance with energy performance standards and provide concrete data to inform retrofit and improvement programmes. The detailed insights gained from these surveys enable property managers to make evidence-based decisions about maintenance priorities and energy efficiency investments.



Deliverables & Reporting

Our thermal survey data is fully integrated into CreoViewer, our advanced point cloud visualisation platform. This allows users to explore thermal imagery within an accurate 3D model of their property, examining temperature patterns and variations from any angle while maintaining precise spatial context. The platform enables measurement, annotation, and analysis tools, transforming traditional thermal reporting into an interactive experience that supports informed decision-making for property management.

- Interactive 3D thermal mapping within accurate point cloud models
- Precise temperature measurement and analysis tools
- Side-by-side thermal and visual imagery comparison
- Cross-sectional analysis capabilities
- Annotation tools for highlighting areas of concern
- Downloadable reports with identified issues
- Secure sharing features for stakeholder access
- Historical data tracking for monitoring changes over time



CREOVIEWER