Skyborne Aerial Imaging
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THERMAL DRONE INSPECTION REPORT

Aerial Infrared Analysis & Findings Summary

SAMPLE REPORT — Skyborne Aerial Imaging

Property Address:	123 Sample Property Road, Lyndonville, VT 05851	**Inspection Date:**	April 2025
Property Type:	Commercial / Residential	**Report Prepared By:**	David — Skyborne Aerial Imaging
Roof Area Inspected:	Approx. 3,200 sq ft	**Conditions:**	Clear, wind <8 mph, temp 48°F

1. Inspection Overview

Skyborne Aerial Imaging conducted a thermal infrared drone inspection of the above-referenced property using a calibrated radiometric thermal camera mounted on an FAA-compliant unmanned aerial system (UAS). Imagery was captured at optimal altitude to provide full roof coverage while maintaining resolution sufficient for anomaly detection.

Thermal inspections identify temperature differentials across building surfaces that may indicate moisture intrusion, insulation deficiency, air leakage, or structural anomalies — conditions that are often invisible to standard visual inspection.

2. Aerial Property Overview

Figure 1 — Grayscale thermal overview of subject property. Full structure and surrounding site visible. Solar array installation confirmed on primary roof section. Brighter areas indicate warmer surface temperatures; darker areas indicate cooler surfaces.

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3. Thermal Findings — Roof Inspection

The false-color thermal image below was captured using an Iron/Rainbow palette to enhance contrast between temperature differentials. Areas of concern are identified and described in the findings table following the image.

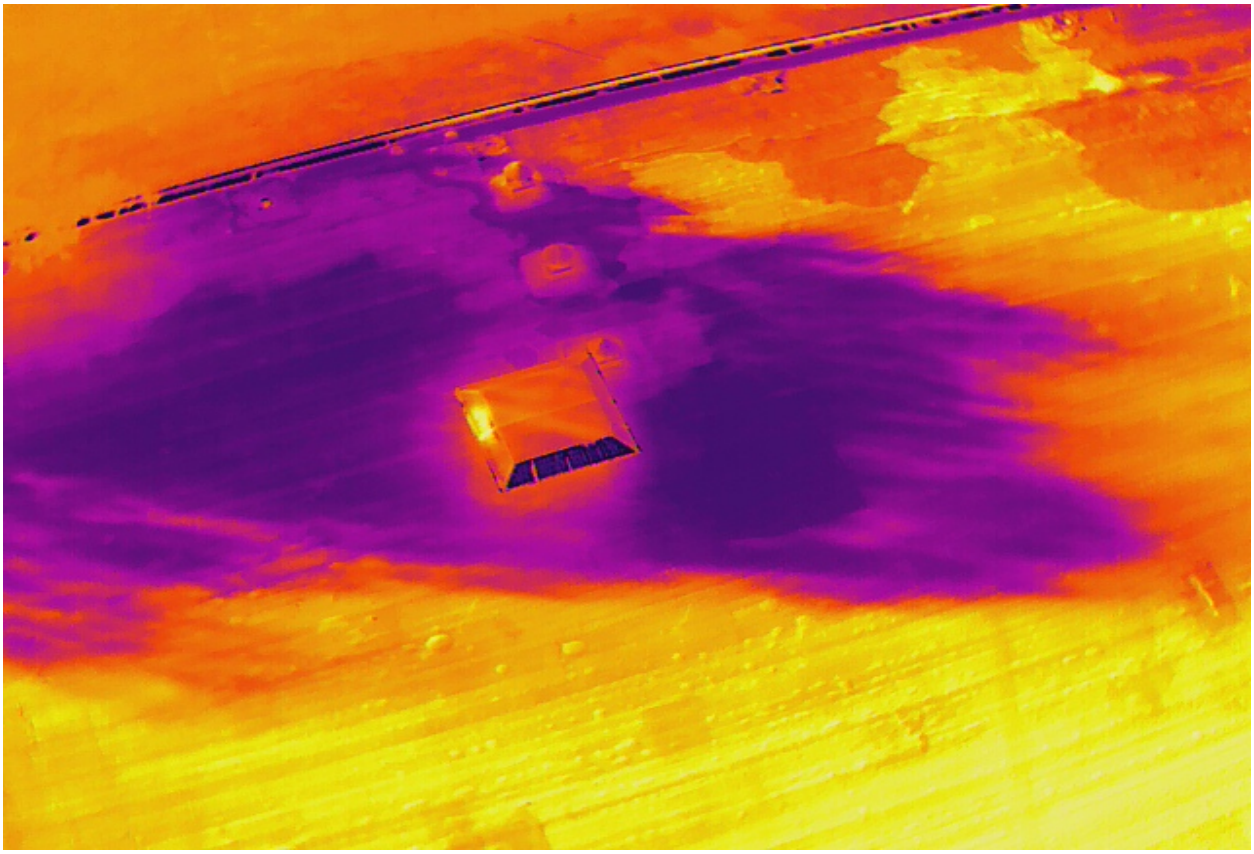

Figure 2 — False-color infrared image of roof structure. Warm tones (orange/yellow) indicate elevated surface temperatures. Cool areas (purple/blue) indicate lower surface temperatures and may warrant further evaluation.

4. Findings Summary

ID	Location	Observation	Priority
F-01	Northeast Roof Section	Thermal shadow and temperature differential observed around central structure. Pattern consistent with potential moisture retention or insulation gap. Recommend further evaluation by roofing contractor.	MODERATE
F-02	Perimeter Roofline	Minor temperature variation detected along northwest perimeter edge. May indicate early-stage air infiltration at flashing or soffit junction. Monitor during heating season.	LOW
F-03	Solar Array	Solar panel array visible and performing within expected thermal range. No significant hot spots or panel anomalies detected at time of inspection.	PASS

5. Recommendations

F-01	Schedule a physical roof inspection with a licensed roofing contractor to assess the area of thermal anomaly on the northeast section. Thermal imaging has identified a potential concern; on-site verification is recommended before the winter season.
F-02	Re-inspect northwest perimeter during next heating season to confirm or rule out air infiltration. If pattern intensifies, consult a building envelope specialist.
F-03	No action required for solar array at this time. Annual thermal re-inspection recommended to monitor panel performance over time.