

Demo Deliverable Format: Solar PV UAV Thermography

Aerial Accuracy (West Texas) • Demo-only example (not from a customer site)

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This is a demo template. It shows the file formats and reporting style you will receive after a real inspection. Values, coordinates, and images referenced are placeholders.

What you get (typical)

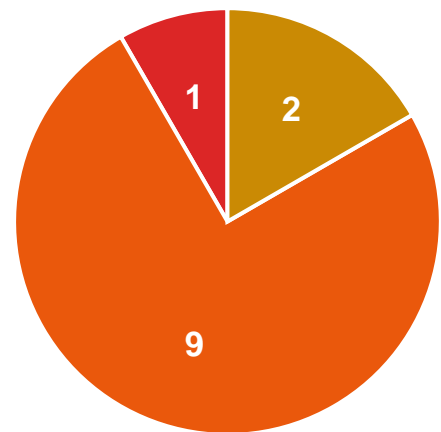
KML/KMZ pins for navigation back to the exact issue location (Google Earth / GIS). **CSV spreadsheet** listing each anomaly, severity, ΔT , and recommended next action. **Thermal + RGB image pairs** for each finding (radiometric data retained where applicable). **Short PDF summary** (counts by severity, clusters, and a ranked “work package”).

Inspection assumptions (conditions)

PV is operating (inverters online) during flight window. Stable irradiance and minimal cloud transients are preferred. We prioritize **relative temperature differences** and repeatable defect patterns; absolute temperatures depend on emissivity, distance, ambient conditions, and reflections.

Demo summary (counts)

Severity	Count	Typical O&M next step
Critical	1	Dispatch ASAP / safety risk possible
High	9	Verify & schedule repair
Medium	2	Monitor / clean / verify
Low	0	Document / recheck



● Critical (1) ● High (9) ● Medium (2)

Demo anomaly table (excerpt)

ID	Severity	Type	ΔT (°C)	Lat	Lon	Next action
AA-DEMO-001	Medium	Cell hotspot / sub-module anomaly	17.1	33.70439	-101.9717	Monitor and verify at next visit; consider cleaning
AA-DEMO-002	Medium	Cell hotspot / sub-module anomaly	14.6	33.69422	-101.9792	Monitor and verify at next visit; consider cleaning
AA-DEMO-003	High	String-level underperformance	11.9	33.70491	-101.9608	Field verify; check string current/fuse

ID	Severity	Type	ΔT (°C)	Lat	Lon	Next action
AA-DEMO-004	High	Forward bias signature	26.8	33.69661	-101.9715	Field verify; check string current/fuse
AA-DEMO-005	High	Bypass diode pattern (1/3 module)	26.2	33.70291	-101.9721	Field verify; check string current/fuse
AA-DEMO-006	High	Forward bias signature	23.0	33.69661	-101.9783	Field verify; check string current/fuse
AA-DEMO-007	High	String-level underperformance	20.9	33.69031	-101.9692	Field verify; check string current/fuse
AA-DEMO-008	High	Bypass diode pattern (1/3 module)	17.1	33.69098	-101.9648	Field verify; check string current/fuse
AA-DEMO-009	High	Suspected connector / J-box heating	31.4	33.70105	-101.9746	Priority dispatch; inspect under load (LOTO)
AA-DEMO-010	High	Bypass diode pattern (1/3 module)	19.3	33.69522	-101.9667	Field verify; check string current/fuse
AA-DEMO-011	High	Forward bias signature	15.7	33.70322	-101.9759	Field verify; check string current/fuse
AA-DEMO-012	Critical	Multi-module hot cluster	38.2	33.69814	-101.9703	Dispatch ASAP; possible arc/fire risk; isolate string

Notes for field verification

Thermal findings should be confirmed by qualified personnel (e.g., string current checks, combiner fuse checks, IV curve tracing, or module replacement). For suspected connector/J-box heating, prioritize safety: inspect under load and follow site LOTO procedures. For soiling indications, verify by spot-cleaning a test strip and comparing output if possible.

End of demo template.

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