

Solar Panel Detection Report

Generated on: February 09, 2026 at 07:05 PM
Report ID: solar_detection_report_20260209_190501_217300

Executive Summary

The analysis successfully identified **7** solar panel installations out of **8** total rooftop detections in the provided image. The detection confidence averaged **46.9%**, indicating reliable identification of solar infrastructure.

Detection Summary

Metric	Value	Status
Total Detections	8	
Solar Panels	7	■
Non-Solar Rooftops	3	
Average Confidence	46.9%	
Detection Coverage	80.0%	

Visual Analysis

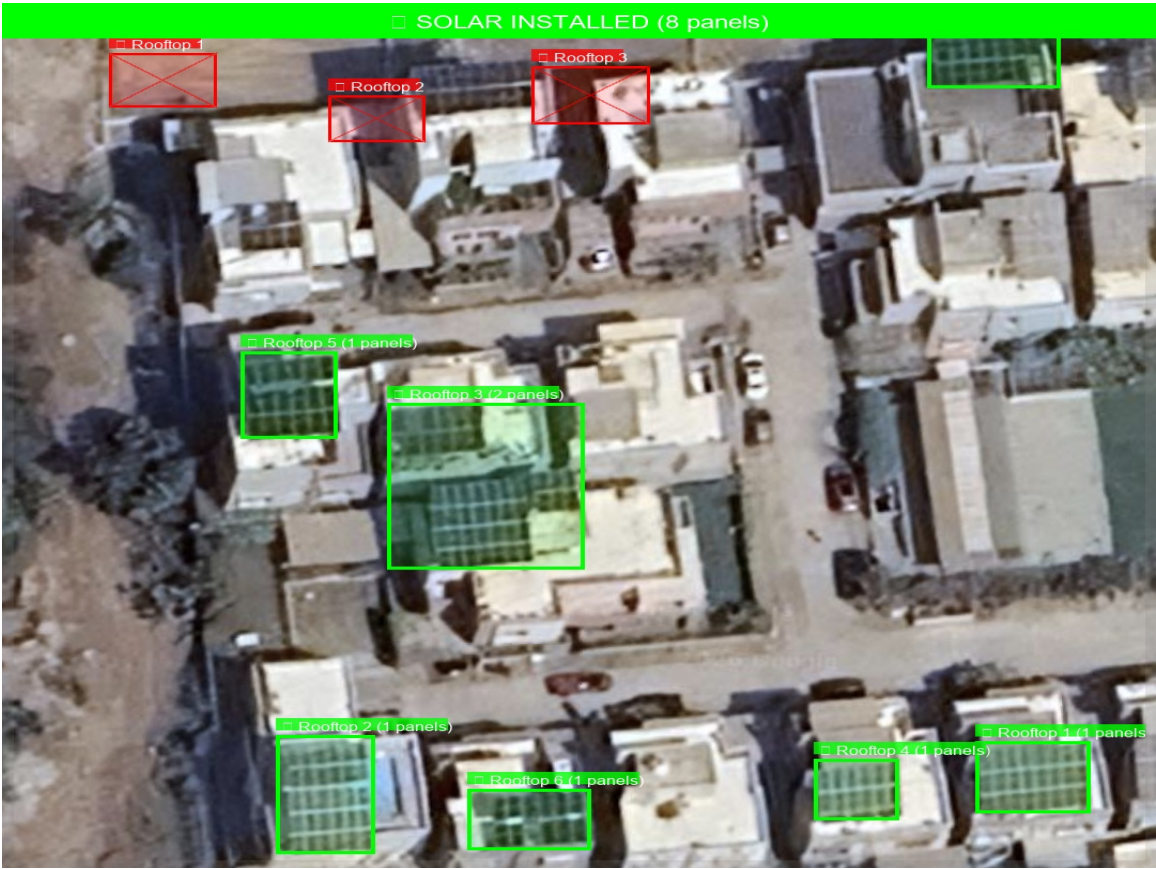


Figure 1: Solar Panel Detection Analysis with Classification Markers

Detailed Detection Results

#	Type	Confidence	X	Y	Width	Height
1	Solar Panel	79.7%	964	1006	107	93
2	Solar Panel	76.4%	302	1029	92	154
3	Solar Panel	75.2%	472	671	143	130
4	Solar Panel	72.6%	798	1022	79	79
5	Solar Panel	62.0%	403	552	86	65
6	Solar Panel	60.4%	268	510	90	113
7	Solar Panel	52.3%	492	1062	115	79
8	Rooftop	47.5%	927	69	124	82
9	Rooftop	28.3%	445	108	122	76
10	Rooftop	4.0%	250	288	58	60
11	Rooftop	2.3%	1048	98	61	107
12	Rooftop	1.8%	1070	992	17	95

Recommendations

For Existing Solar Installations:

- Monitor panel performance regularly
- Schedule periodic maintenance and cleaning
- Consider energy storage integration
- Monitor for shading issues from vegetation growth

For Non-Solar Rooftops:

- Evaluate remaining rooftop areas for expansion
- Conduct feasibility studies for additional installations
- Consider energy consumption patterns for sizing

Technical Information

Image Processing:

- Original Image Size: 1079x1125
- Processing Time: 2.76 seconds
- Model Version: v2.1
- Confidence Threshold: 40%

Detection Parameters:

- Analysis Type: Automated AI Detection
- Classification: Solar Panel vs Non-Solar Rooftop
- Coverage Area: 80.0%
- Total Detections: 8

