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FOD AI™

Comprehensive Data for Enhanced Airfield Surface Management

Illuminex AI
INSPECTION REDEFINED
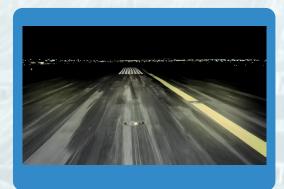
Detect, Alert, Log, Analyze

Enhance the safety of your airfield surfaces while improving operational efficiency with FOD AI™. FOD AI™ leverages the power of AI to detect Foreign Object and Debris and to alert in real-time based on customer selected sizing thresholds. All FOD detections are logged to the cloud where our dashboards and heatmaps provide critical insights into root cause enabling accelerated remediation of surface degradation.

- Less than 1/10 the cost of traditional fixed mount solutions
- Can be utilized on any airfield surface (runway, taxiway, apron, service road, etc.)
- Realtime Alerts and comprehensive automated data logging
- Seamless integration with existing airfield Inspection process

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Transform observations into data, enabling actionable insights for safer and more efficient operations.

Detect:
Foreign Objects and Debris (FOD) on paved surfaces like runways, taxiways, aprons, and other paved road surfaces.

Alert:
Real-time alerts on safety critical FOD detected in real time.

"ID": "75307",
"Latitude": "43.681°",
"Longitude": "-79.658°",
"Date": "2024-08-01",
"Time": "13:18 UTC",
"Class": "FOD",
"Type": "Asphalt"

Log:
Record detection time, location, estimated size, and sensor media of all detected FOD (critical and non-critical).

Analyze:
Visualize historical FOD occurrences via heatmap and identify problem areas to infer root cause. Plan for streamlined FOD remediation.

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