FOD Finder™ XMV2 Mobile System

SPECIFICATION	DETAILS
FCC CERTIFIED	Meets CE standards approved by the FCC for operation on airport locations (FCC 2013-18013). Ensures no interference with airport communication, navigation or surveillance systems.
FAA & ICAO TESTED	Meets and exceeds FAA and ICAO standards for FOD detection. FAA Part 139.
PHYSICAL DIMENSIONS & WEIGHT	0.3 m × 0.3 m × 0.1 m, 11 kg
MAINTENANCE	No moving parts. Zero hardware maintenance required.
RADAR POWER	5.636 W EIRP
START UP TIME	Will not exceed 4 minutes
TECHNOLOGY	Solid state construction planar phased-array millimetre-wave radar Foreign Object Debris (FOD) detector.
MODULATION TYPE	FMCW frequency-modulated continuous-wave
SAFETY	Unlike high-peak-power pulse radar, FMCW utilizes low continuous output power; staff are completely safe.
NO TRANSMIT-RECEIVE BLIND SPOTS	FMCW continuously emits frequency-sweeping signals, enabling seamless real-time tracking of FOD.
PERFORMANCE	Entire runway scan in minutes. 100% detection by FAA standards in all weather conditions/day-night.
DETECTION SENSITIVITY	-30 dBm^2 @ ≤20 KPH
DEBRIS SIZE	1 cm × 1 cm
VEHICLE SPEED	≤60 MPH, 100 KPH
OPERATING TEMPERATURE	-40°C to 65°C
OPERATING HUMIDITY	0 to 100%
OPERATING CONDITIONS	24 hours day-night. Operates through rain, snow, and sandstorms for uninterrupted runway and taxiway monitoring.
DETECTION RANGE	25 m to 105 m
ANGULAR COVERAGE	100% runway coverage in single pass (60m wide)
OPERATOR CONSOLE	Touch screen graphical/mapping display. Intuitive user interface that visually and audibly alerts system operators on FOD detections.
GEO TAGGING ACCURACY (GPS)	Geotagging and logging of FOD and surface discrepancies (<1.5 m accuracy)
SEAMLESS DATA SHARING & STORAGE	Data and imagery shared between control tower, ground control, and management in real time.
POWERFUL DATA ANALYTICS & TOOLS	Heatmap for identifying, analysis, and reporting FOD hotspot charts, intuitive FOD detection, various filtering options for high resolution FOD detection analysis and reports in PDF and CSV format.
PATENTS	TREX owns 120 patents, 57 new patents under process
REFERENCES	TREX FOD Finder™ is number one product used by the United States military, with reference in APAC such as Changi Airport.

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TREX AVIATION SYSTEMS

FOD Finder™ II

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The only government-approved FOD solution designed, engineered, and manufactured in the United States.

Established in 1978, Specializing in pioneering research and development for the US Government, Commercializing "dual-use" technology







