



ROMDAS™

AIRFIELD PAVEMENT MEASUREMENT SYSTEM

Keeping airfield pavements safe and available is a major challenge for airfield operators, and this challenge is getting harder:

- Airfields are large and busy, and continue to get busier – this is causing more rapid pavement degradation, and the opportunities to deliver maintenance interventions are being increasingly constrained
- Many airfields are struggling with aging pavement infrastructure – which is putting significant pressure on already-stretched capital budgets and pavement management programs
- New aircraft types and fleet mixes are pushing pavements beyond their design parameters - leading to accelerated degradation
- Degrading pavements generate Foreign Object Debris (FOD) exactly where you don't want it – on the runways and taxiways – which is an increasingly costly issue as aircraft engines become more advanced and more vulnerable to FOD damage
- Changes in labor markets is leading to smaller, less experienced teams trying their best to manage a huge operational area

Existing manual-based methods – specifically, Pavement Condition Index (PCI) surveys, and tactical maintenance inspections and interventions – have been the foundation of pavement management programs for decades. It is well understood that timely pavement maintenance interventions are key to maximising pavement life – but knowing where all your defects are, and prioritising them accordingly, is a significant challenge.

Technological solutions can provide high quality, whole-airfield datasets to help extend the life of your airfield pavements. Other airfield operators are already enjoying the benefits of this advancement – will you join them?



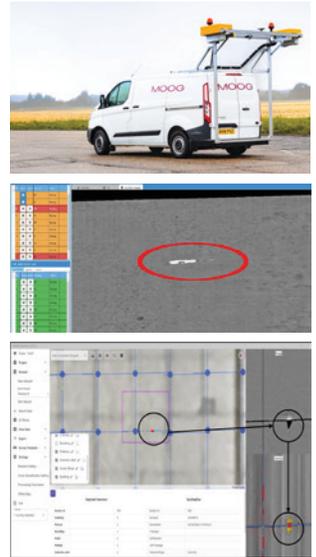
ROMDAS™ AIRFIELD PAVEMENT MANAGEMENT SYSTEM

Our proven, vehicle-mounted pavement measurement system is ready to collect high-quality data across your whole airfield.

CONCEPT-OF-OPERATIONS

ROMDAS uses a dual laser system to profile the pavement surface. This data is processed and categorised through our customised algorithms. The outputs are presented in our proprietary software, where the user interrogates their categorised pavement defect information as a layer over an airfield map. The processed defect data can be exported into other software packages.

The scanning schedule can be flexible; for example, a portion of the airfield could be scanned everyday, or a full scan performed once-per-week (other CONOPS are viable). ROMDAS is specifically designed to fit around busy airfield operations: it is driven at highway speeds, and can operate in complete darkness.



Software Interface

BENEFITS

- Extend the life of airfield pavements
- Better understanding of when major capital investments in pavements will be needed
- Protect availability of key runways and taxiways
- Improve airfield safety by reducing FOD risk

FEATURES AND OUTPUTS

- Operating speed 0-100km/h (0-60mph)
- Scanning width of 5m (15ft) per pass
- Defect types categorised: cracking, ravelling, macrotexture, concrete joints, potholes, etc
- Operate in day or night conditions
- Non-proprietary data formats: easy conversion to Excel, for GIS mapping or asset management systems
- Usable across the airfield: runways, taxiways, aprons, etc.

ADDITIONAL CAPABILITIES

FOD Detection: using the same dual laser system, ROMDAS can detect small FOD (5mm / ~1/4in) in real-time – please contact us for more information about how ROMDAS can improve your airfield FOD management program.

Digital Airfield Solutions: ROMDAS is integrated into our Digital Airfield Solutions portfolio, which includes our world-class Tarsier® FOD Radar system; please contact us for more information on how our integrated portfolio delivers additional value to airfield operators.



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