



## FAST ACQUISITION AND IMAGING MODULE (FAIM) FOR SPACE DOMAIN AWARENESS

**Macquarie University –  
University of New South Wales –  
HEO Robotics – DSTG**

*"A space-based fast acquisition and imaging module enabling imaging of target satellites with unprecedented spatial-resolution, sensitivity, and utilisation rate."*

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### Problem

The capability of satellites to provide local space domain awareness through sensors and data processing will be increasingly important for mission resilience.

### Solution

The project will demonstrate a space-based fast acquisition and imaging module that enables satellite imaging with unprecedented spatial resolution, leading to breakthrough capabilities.

Its unique sensor package will enable maximal utilisation of space assets to achieve unparalleled space domain awareness.

Cross-referenced with onboard data, the discovery of defence-relevant events will trigger communication to the ground within 3 hours, achieving complete, real-time awareness of large and small activities in space.

**EXIT TRL: N/A**

**DIN INVESTMENT: \$499,757**

**EXTERNAL INVESTMENT: \$850,000**

**NO OF RESEARCHERS: 9**

**NO OF NEW ROLES: 2**

**DIN SII Funding**  
DIN \$499,757

**Defence & Office of National  
Intelligence**  
Contract \$850,000

**DIN SII Project End Date**

**2022**

**2024**

