

Company Overview

elmTEK is an Australian Defence Science and Technology (S&T) business. Established in 2012, the business comprises a multi-disciplinary team of engineers, physicists, mathematicians and support staff. The company continues to grow rapidly with our people collectively aligned in our mission to solve mission-critical problems at pace to protect and advance our national defence capabilities.

We have a strong science and technology pedigree in platform survivability, Electro-Magnetic Spectrum (EMS) technologies, Countermeasure Development & Validation (CMD&V) and Electro-Optic (EO) systems, with capabilities established across air, land and maritime domains. Our core capabilities are in Modelling, Simulation and Analysis (MS&A), Measurement and Test Systems (M&TS) and Sensor and Integration Technologies (S&IT), underpinned by our program management and systems engineering disciplines.



Capabilities

- **Modelling, Simulation & Analysis**
- **Sensor & Integration Technologies**
- **Measurement and Test Systems**

Core Competencies

Modelling, Simulation & Analysis

- Simulation enabled Test & Evaluation (T&E) and training systems
- Platform and mission survivability assessments (countermeasures, weapons, sensors and tactics)
- High fidelity Electro-Magnetic Spectrum (EMS), platform & weapon system modelling
- Laser hazard and safety analysis

Sensor & Integration Technologies

- Advanced Electro-Optic (EO) systems design, prototyping and evaluation
- Laser, LiDAR and single photon detection systems
- COTS and custom solutions for radiometric and imaging sensors
- Data distribution architectures including Generic Vehicle Architecture (GVA)

Measurement and Test Systems

- Precision sensors and test solutions for use in laboratory and deployed environments
- DT&E and OT&E of EO systems including field trial support: LWS, MWS, LiDAR, EO/IR threat simulators
- Distributed and integrated multi-modal and multi-spectral sensors
- Situation awareness technologies and human performance systems

General

- ASDEFCON Tier 1 and Tier 2 supplier to Defence and industry
- Integrated engineering processes incorporating scientific R&D principles
- Modelling enabled iterative system design
- Mechatronics workshop with adjacent systems integration laboratory

Certifications & Memberships

- ISO 9001:2015 accredited Quality Management System
- Defence Industry Security Program
- Defence Teaming Centre
- French-Australian Chamber of Commerce (FACCI)
- Submarine Institute of Australia
- Association of Old Crows (AOC)
- Australian Industry & Defence Network (AIDN)
- Simulation Australasia



Industry Standards

- Praxis Framework (Program Management)
- ISO 12207:2017 (Systems & Software)
- IPC / WHMA A-620C (Wiring Harness)
- AS/NZ IEC 60825 (Laser Safety)
- EMVA 1288 (Machine Vision)