

Ultra Electronics Australia

Combined strength



Ultra Electronics is an internationally successful defence, aerospace, security and energy company with a long, consistent track record of development and growth.

Ultra Electronics Australia has been established to provide tailored solutions from Ultra's wide range of niche expertise from an in-country source. Ultra is committed to delivering customers best value service and cost-effective solutions and so by investing in Australia the Ultra Group is able to deliver a local, personalised service.

Ultra prides itself on the ability to exploit internal niche capabilities and combine them to create competitive, complex 'system of systems' solutions.

Ultra Electronics Australia is able to draw upon the international Group synergies and deliver them to the Pacific-Rim through a dedicated regional base. The company is designed to be lean and agile, reflecting an ethos that highlights the importance of being able to transfer the Ultra Group's heritage engineering excellence to anywhere in the world, by employing the right mix of engineering excellence, committed staff, inspiring innovators and transferable technology.

Avalon Systems was acquired by Ultra in 2009 and is the first point of contact for Ultra Electronics Australia.

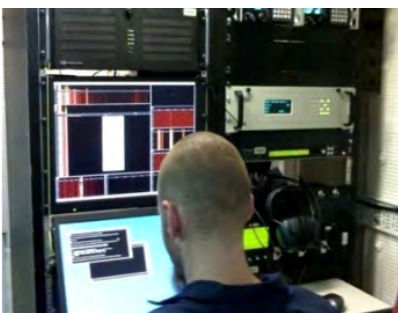
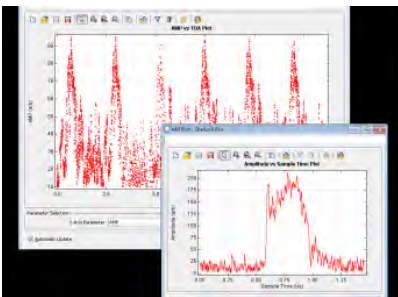
Ultra's products and services are used on aircraft, ships, submarines, armoured vehicles, surveillance and communication systems, nuclear power systems, airports and transport systems world-wide.

Ultra's five key capability areas:

- Battlespace IT
- Sonar systems
- Civil and military aircraft equipment
- Specialist defence equipment
- Specialist civil systems and equipment



Ultra Electronics Avalon Systems is a provider of niche technologies and capabilities to the Electronic Warfare practitioner. Avalon Systems also provides Australian support to Ultra's Sonar Systems business for its AWD Sonar contract, by engaging local subcontractors to undertake product manufacture. Through life sustainment is provided for organic and OEM products.



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ELINT Systems

Avalon Systems' primary capability is associated with ELINT collection and analysis systems and related operational requirements such as detection and warning of LPI radars, Specific Emitter Identification, Precision Parameter Measurement and directed High Sensitivity Receivers. These digital receiver systems are typically integrated into traditional ES systems, although they can operate stand alone. Open industry standards allow plug and play of hardware and software modules. Products for specific applications are developed by bringing together the right mix of MOTS/COTS tuners, digitisers, FPGA modules and processors with software and firmware derived from customer furnished or Avalon Systems generated algorithms.

Sonar and EW Systems

For the AWD Sonar, Avalon Systems is undertaking system integration, installation, set-to-work and system trials. It will have responsibility for management of Australian and overseas suppliers. In the EW realm, Scranell was a successful CTD program for an enhanced missile detection system that could provide ships with additional warning time. A CTD Extension Program has been contracted for further development. An EW Mission Support System is now operational for pre and post flight EW support of the Tiger and MH-90 helicopters. Though primarily an Engineering organisation, Avalon Systems has undertaken volume production of an EW System to an OEM design.

Sustainment and adaptation

Sustainment is critical to life-time operational effectiveness. Avalon Systems is committed to providing In Service Support of its products, maintaining currency of design with an active obsolescence program. Open industry standards ensure backwards compatibility. ISS contracts are seen as core to the business. With years of design, development, manufacture and sustainment experience in the Australian Defence environment, Avalon Systems is well placed to support OEMs in adapting their products for the ADF and providing LoT ISS. For AWD, Avalon Systems is to establish the facility then conduct in country support of the sonar mission operating system and equipment.

Ultra Electronics - Avalon Systems reserve the right to vary these specifications without notice.

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