Ultra Electronics has supplied radiation monitoring systems to navies throughout NATO and the rest of the world and continues to provide new systems and in-service support for maritime operations. The ANV S2 system meets the current operational requirements of both surface and submarine fleets. The system monitors the radiological environment within the ship or submarine whilst providing continuous data regarding the external threat in both air and water.

The ANV S2 design has been proven in a comprehensive range of environmental and other conditions against UK MOD Defence Standards. The system’s modules are designed to perform continuously with minimum maintenance, have excellent reliability and an extended pedigree with many navies.

The ANV S2 naval systems have proven performance in active deployment and, following recent enhancements included in the latest design, are able to interface with Platform Management Systems (PMS) via a standard data port. The radiological threat information can now be presented direct to the platform commander as and when an alarm situation occurs or when there is a heightened status of alert.

An ANV S2 system can have up to seven detectors capable of measuring from natural background to full threat levels which may be experienced post nuclear weapon detonation. The detectors are sited to monitor the exposure of the crew, the airborne threat and sea water contamination. For smaller vessels and submarines, a two detector system is used providing the same comprehensive data, alarms and displays for the platform.
SYSTEM CONFIGURATION
The ANV S2 naval system provides the platform commander with dependable data throughout extended deployments where there may be a radiological threat. Operational requirements in the maritime environment have transformed over recent years and current and predicted future activities will expose platforms to significant asymmetric threats.

BACK-FIT OPTION
A back-fit option is available for users supplied with MK22NRS and MK23NRS systems by the specialist suppliers of Plessey or, more recently, Siemens. The back-fit option provides a cost-effective method of upgrading performance by simple unit replacement.

POWER SUPPLY
• Ship’s AC supply: 115V @ 60Hz or 230 V 50Hz
• Ship’s DC supply: 24V DC Supply

OUTLINE SPECIFICATION
• Range: 10nGy/h to 100Gy/h
• Energy response: 60keV to 1MeV ±20%
  1MeV to 3MeV ±35%
• Humidity: 93.2% RH at 55°C
• Temperature: -40°C to +80°C (operating)
• Immersion: IP67 (4m depth for detectors)
  Def Stan 00-35 (for enclosures)