KraitArray™ is a product family of low profile miniaturised acoustic arrays suitable for low speed towed or static applications.

Applications

- Manned & unmanned vessels (surface and underwater)
- Harbour surveillance and protection
- Suspended/vertical array
- Marine mammal monitoring
- Torpedo defence systems
- Anti-Submarine Warfare
- Environmental monitoring and vessel noise characterisation
- Asset monitoring and protection
- Conditions monitoring

Systems Engineering & Assessment (SEA) have made use of their knowledge and experience of larger diameter arrays to develop this highly adaptable product that provides impressive performance with reduced power consumption, weight, drag and cost when compared with traditional line and towed arrays. These benefits mean that KraitArray™ can be adapted and used for many platforms and applications.

At the core of the KraitArray™ is the SEA miniature Integrated Acoustic Sensor (mIAS)

- High-sensitivity wideband hydrophone
- Integrated low-noise pre-amplifier
- Low Power
- Configured to customer requirement

To further improve the capability of the KraitArray™, a suite of SEA micro Non-Acoustic Sensors (µNAS), has been developed

- Each µNAS provides bearing, temperature, pitch and depth
- Easy digital configuration, allows up to 8 µNAS to be installed, providing more accurate metadata.

For ‘plug-and-play’ ease of integration and increased flexibility, SEA have developed the micro Digital Acquisition & Source System (µDASS)

- Miniature data acquisition system embedded in the connector
- Integrated into a range of sensor systems
- Digitises up to 32 acoustic channels and 8 non-acoustic channels on a single Ethernet data interface.
- Wide input voltage and low power consumption.
**Technical Specifications**

- Analogue or Digital Interface
- Up to 32 Acoustic Channels
- Nested/Non-Nested Acoustic Channel Configurations Available
- Up to 8 Non Acoustic Channels
- Wide Channel Bandwidth
- Impressive Acoustic Channel Sensitivity
- External Diameter 16mm
- Up to 50m Total Module Length
- Up to 50m Acoustic Aperture Configured to suit
- Bend Radius minimum 75mm
- Operating Depth 300m
- 7Vdc – 30Vdc Analogue Supply Voltage
- 12Vdc – 50Vdc Digital Supply Voltage
- 50mW per µNAS Channel Power Consumption
- Typically ±2deg Bearing/Pitch Accuracy
- ±1deg Temperature Accuracy
- ±1m Depth Accuracy

**Customer Benefits**

- Reduced cost
- Fully configurable to requirements
- Plug-and-play integration
- Developed using COTS equipment
- Hardware and software developed entirely by SEA
- Easier handling
- Individual Integrated Acoustic Sensors (single or triplet) also available

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