

Dual Head Sonar Profiler

Tritech SCU 3 Processor

Developed from the highly successful and widely used Tritech SCU-3 processor, the SeaKing Surface Control Unit (SCU) is a ruggedised, offshore quality, multi-tasking processor designed to support the SeaKing and SeaPrince range of networked sonars, profilers, sidescans, bathymetric systems, video cameras and third-party sensors.

It combines many years of proven expertise in the control of subsea sensors with the ability of Personal Computer technology, resulting in a very powerful yet simple to operate processor capable of simultaneously controlling and displaying data from the subsea equipment.



Tritech Profiling Head

The advanced Tritech SeaKing suite of subsea sensors comprises a range of fully integrated acoustic and Oceanographic sensors designed to satisfy the requirements of an evermore demanding ROV and survey market until well into the next century. Included in this advanced new product range is the SeaKing Dual Frequency Profiling Sonar Head, the DFP.



Operating Frequency	600 kHz & 1.1 MHz	Overall Maximum Diameter	110mm
Beamwidth	2° Conical (600 kHz)	Maximum Length	287mm
Beamwidth	1° Conical (1.1 kHz)	Weight in air	3.5kg
Maximum Range	80m (600 kHz)	Weight in water	1.7kg
Maximum Range	40m (1.1 MHz)	Maximum Operational Depth	4,000m
Minimum Range	0.3m	Materials	Aluminium alloy-HE30,RPU
Timing Resolution	1mm	Finish	Hard Anodised Black
Source Level	210 dB re 1uPA@1m	Standard Connector	Tritech 6 pin with Waterblock
Pulse Length	20-200 Microsec	Connector Options	Various upon request
System Bandwidth	30 kHz	Operating Temperature	-10°C to +35°C
Scan Modes	Combinations of speed and resolution available	Storage Temperature	-20°C to +50°C
Mechanical Step Sizes	0.45°, 0.9°, 1.35° & 1.8°	Electrical	
Mechanical Resolution	0.45°	Power Requirements	18 to 36 VDC @ 10VA
Scanned Sector	Various to 369°	Optional Power Supplies	9 to 18 VDC & 36 to 72 VDC @ 10VA
Continuous 360° Mode Available	Yes	Data Communication Rate Option	156 kBits/sec 78 kBits/sec
Sector Offset Mode Available	Yes	Communication Requirements	Twisted pair, Modem or Coax

