Seanet SCUv5

Surface Control Unit

Multi-tasking operating system and speedy solid sate media

The Seanet SCU is a multi-tasking control unit running under Microsoft Windows™ Embedded, which is installed on an internal solid-state disk. The Seanet SCU allows for complete control of the software using a Remote Access Terminal (RAT). This is an ergonomically designed device which either neatly clips onto the front of the unit or is used as a remote via a cable. The built in mini-joystick on the RAT provides a useful tool for carrying out range and bearing measurements on sonar data.

To ensure the Seanet SCU provides a reliable, rugged and easy to install unit it has been designed as a robust 19" 3U rack mount unit with ruggedly mounted sub assemblies for maximum reliability.

A high speed 156kbit·s^{-1} communication system is used within the Seanet SCU, allowing a full suite of Tritech sensors to be operated over a single twisted pair or, by using the Tritech MultiComm Junction Box, over an RS232 or fibre optic interface.

Each device connected to the Seanet SCU runs, in real time, in its own on screen window. The monitor display may be varied to show single or multiple windows and this can be altered at any time during normal operations. This multiple sensor capability provides obvious cost benefits as well as reducing the space requirement for consoles in the control room.

Using the multi-device capable Tritech Seanet Pro software (which is pre-loaded onto the SCU) it is possible to integrate systems with both Gemini and SeaKing devices, offering a single point of control for all the sensors on the ROV.

Benefits

- Rugged, versatile construction
- Control Gemini sonars
- Control multiple SeaKing sensors
- Expandable and configurable
- Integrate into IT infrastructure

Features

- High resolution video output
- Multiple input/output ports
- USB ports included
- Flash card reader
- Port activity lights
- RS232, RS485, ARCNET, Ethernet

Applications

- Tritech sonar control
- Tritech survey sensor control
- Third party equipment control
- Integration of GPS with survey data
- Logging and playback of sonar scans

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Specification

Physical	
Case width	432mm
Front panel width	482mm (19")
Height	133mm (3U)
Depth	325mm
Depth including handles	376mm
Weight	~10kg
Materials	Aluminium, Stainless Steel
Operating temperature	5 to 35°C
Storage temperature	-20 to 50°C

Interface Ports	
Ports	4 x 9-pin DE-9 ports (configurable RS-232, RS-485, RS-422, ARCNET) 1 x 15-pin DA-15 port for ARCNET or RS232 1 x 24VDC at 36VA Output (for equipment test purposes) Front and rear USB 2.0 ports Multi-card reader (CF Type 1 & SD card) Ethernet
Video output	HDMI, DVI, SVGA, XGA or SXGA
ARCNET	1 x 156kbit·s^{-1} (1500m) or 78kbit·s^{-1} (2500m)

Electrical and Components	
Input voltage	Universal 100-240VAC 50/60Hz
Power consumption	250W (nominal)
Processor	Intel™ Dual Core (or better)
Storage	Minimum 32GB SSD (10GB reserved for OS)

Software	
Operating system	Microsoft Windows™ Embedded
Software	Tritech Seanet Pro control and display software

Options
Composite PAL/NTSC output Composite video input Internal HDD (instead of SSD) Additional Gigabit Ethernet ports (for Gemini sonars).

Marketed by:

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