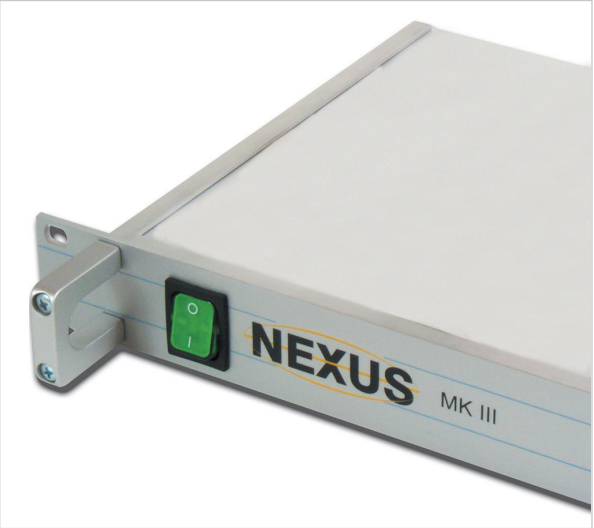
NEXUS MK III

Dual multibeam sonar uplink for subsea pods



Features and benefits

- Handles 2 multibeam sonars/echosounders
- Supports any multibeam sonar/echosounder (P)ECL or gigabit Ethernet uplink
- Operates on single-mode or multi-mode fibre

Applications

- Telemetry for ROV/ROTV pipeline survey applications
- Telemetry for ROV/ROTV cable route survey applications
- Telemetry for rock dump ROV applications
- Telemetry for trencher applications

Options

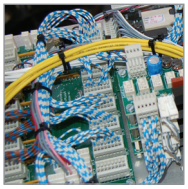
- 10/100 Mbit Ethernet interface
- (P)ECL or gigabit Ethernet

The MacArtney NEXUS MK III multibeam sonar and echosounder transmission system transmits high speed digital sonar data from multibeam sonars/echosounders installed on a remotely operated vehicle or system.

The system is able to transmit high speed data from two multibeam sonar/echosounder heads on one single or multi-mode optical fibre.

The low speed downlink control data for the sonar head is transmitted through the existing telemetry system on board the underwater vehicle or system.

The NEXUS MK III package consists of a 19” rack mounted top side unit and a subsea PCB assembly for installation in an existing on board subsea telemetry pod.



Specifications - topside unit

Mechanical

Dimensions: 19” rack mount, 1 U high

Electrical

Supply voltage: 85-265 VAC, 50/60 Hz
Power consumption: 25 W

Transport

Delivered in Pelicase

Specifications - subsea assembly

Electrical

Supply voltage: 12 VDC

Multiplexer

Multibeam sonar signals: 2 x (P)ECL (125 Mb/s) or 2 x gigabit Ethernet

Fibre optic

Fibre type: Single-mode 9/125 or multi-mode 50/125-62.2/125
Number of fibres: 1 or 2

Flux budget: 10-18 dB (multi-mode fibre)*
18-24 dB (single-mode fibre)*

* Depending on the configuration, number of optical fibres available, multi-mode fibre size and wavelength used. Please contact MacArtney Underwater Technology for detailed optical budget based on your application.

Transport

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