

NEXUS MK III Multiplexer



Description

The NEXUS MK III multibeam transmission system, developed by the MacArtney Group, is used for transmitting high-speed digital sonar data from multibeam sonar heads installed on ROV or ROTV systems

The system consists of a 19" rack mounted top side unit, and a subsea PCB assembly for installation in existing underwater housing.

The system can transmit data from up to two multibeam heads on one or two optical fibres (singlemode or multimode).

The low speed down link control data for the sonar head will be transmitted through the ROV system multiplexer.

Features and benefits

- Accepts 1 or 2 multibeam sonar systems
- Supports any multibeam head speed (P)ECL data up link
- Operates on singlemode or multimode fibres

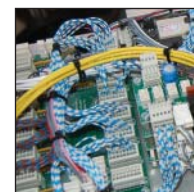
Applications

- Multibeam surveys using ROV mounted sonar heads
- Subsea mapping
- MCM
- Dredging and trenching

Options

- Separate underwater housing
- Power supply for sonar head
- SeaBat 71xx series interface
- E2P ethernet interface

For further information please visit: www.macartney.com



Technical Specifications

Specifications topside unit

Mechanical

Dimensions: 19" rack mount, 1 U high

Electrical

Supply voltage: 85-265 VAC 50/60 Hz

Power consumption: 25 W

Specifications subsea assembly

Supply voltage: 12 VDC

Multiplexer

Multibeam sonar signals: 1 or 2 (P)ECL, 125 Mb/s
(Option: SeaBat 71xx interface)

Fibre optic

Fibre type: Singlemode 9/125 or multimode 50/125-62,2/125

Number of fibres required: 1 or 2

Flux budget: 10-18 dB
(multimode fibre)*
18-24 dB
(singlemode fibre)*

* Depending on the configuration, number of optical fibres available, multimode fibre size and wavelength used. Please contact the MacArtney Group for detailed optical budget based on your application

NEXUS MK III delivered in Pelican case.

Specification subject to change without notice

