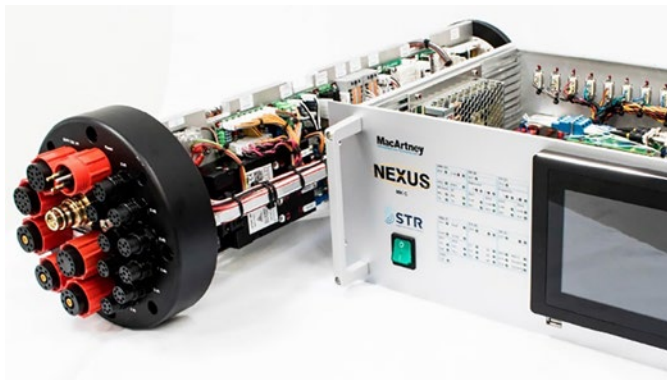


MACARTNEY NEXUS MK C



The MacArtney NEXUS MK C is an Ethernet, HD video and serial data multiplexer that carries all signals over one single mode optical fibre via CWDM (Coarse Wavelength Division Multiplexing). The multiplexer hardware is based on the Focal 914-X series.

Power switching is software controlled via a graphical user interface on the integrated touch screen PC. Sensor power status, leak alarm, telemetry link status etc. is continuously monitored by the software. The protocol is open and can be integrated into customer software if required.

Optical diagnostics are available via the Focal 914-X graphical user interface.

The subsea housing is manufactured from hard anodised aluminium. Connectivity interfaces include SubConn® anodised aluminium connectors, SubConn® coax (HD video) connectors and a MacArtney OptoLink fibre optical connector. The depth rating is 3,000 MSW. Software control via standard PC (3 COM ports).

APPLICATIONS

- ROV/ROTV multiplexer for HD video and multibeam-sonar survey sensor set-up
- Cable trencher systems
- Drop camera systems
- Towed camera and sensor systems
- Seabed monitoring applications including landers and observatory systems

KEY FEATURES

- Interfaces with most standard survey sensors
- Touch screen-controlled power switching
- Interface for SeaBat 71xx, R2Sonic and Kongsberg multibeam sonar system (dual head)
- Three HD video interfaces (full broadcast quality)
- Operates on one single mode optical fibre

MACARTNEY NEXUS MK C

Topside unit

Dimensions:	19" rack mount 4U high, 280 mm deep
Supply voltage:	85-265 VAC, 50/60 Hz
Power consumption:	100 W
Various:	LEDs for status indication
Transport:	Delivered in PELITM Case

Subsea unit

Dimensions:	OD 197/210 mm, total length including connectors approx. 745 mm
Depth rating:	3,000 m
Material:	Hard anodised aluminium (7075 T6)
Weight in air:	Approx. 32 kg
Weight in water:	Approx. 12 kg
Ethernet:	2 x 10/100/1000BaseT 3 x 10/100BaseT
HD video:	3 x HD-SDI / 3G-SDI
RS232/RS485/RS422:	9 (software selectable)
RS 232/TTL:	2 (trigger channels)
RS485:	1 (HD video / Light)
RS232:	1 (internal use)
Supply voltage:	100-240 VAC 50/60 Hz
Output voltage:	48/24/12 VDC AC (equal to supply voltage)
Fibre type:	Single mode 9/125
Number of fibres required:	1
Flux budget:	> 18 dB
GUI:	Touch screen (PC) Power switching with individually fused outputs
Diagnostics:	Leak sensor, voltage and current monitoring, link status monitoring, power output feedback. Optical diagnostics
Transport:	Delivered in flight case

All information contained in this brochure may be subject to change without prior notice.