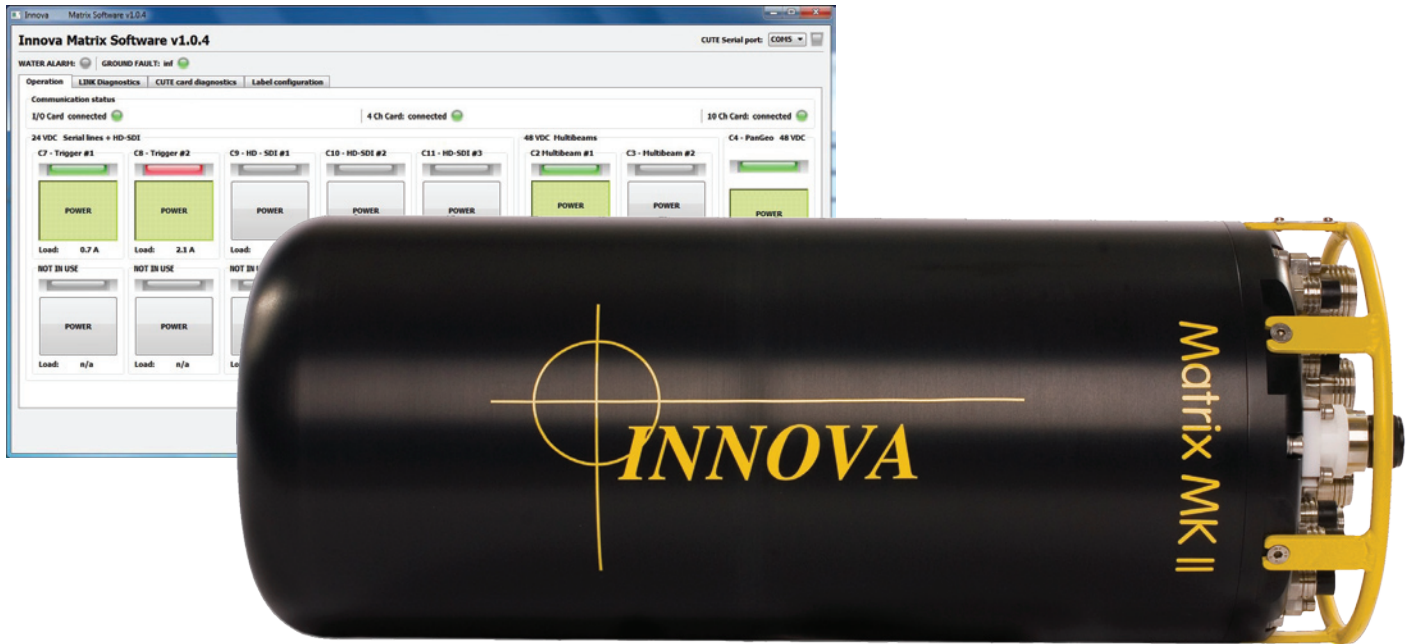# Matrix MK II

The Matrix is a standalone simple "all in one solution", enabling for transmission of "all you need simultaneous". The system delivers very low-latency, transparent data transmission for a wide range of data formats over a single fibre. The system consists of a compact, one-atmospheric subsea unit rated for 3000 msw, optional 6000msw and a 19" rack mount topside unit. The Matrix enables for conversion of a work class ROV to a survey sensor carrier.

A new surface control unit based on feedback from our customers and software for remote control by an optional touch-screen improves the HMI interface. The Matrix's internal control system provides individual 2-pole switching of all power outputs as well as DC power insulation monitoring. The DC power outputs are equipped with Software resettable fuses to save operational time.

Our standard solution can be supplemented with additional analogue and digital IO´s. In addition the Matrix can be complemented with control of power/focus and zoom and other control functions according to the customer demand.

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Matrix MK II

Mechanical property
- Aluminum 6082-T6, hard anodized. Optional titanium housing on request
- Dimensions: Ø230 x 600mm.
- Weight in air: 33 kg
- Weight in seawater: 11 kg
- Depth rating: 3000m (optional: 6000m)

Power interfaces, standard configuration
- Power input: 110-240VAC or 120-370VDC

Power output
- 2 x 48VDC 2-pole relay output for multibeam, software reset fuse
- 12 x 24VDC 2-pole relay output, software reset fuse. (Total 1200W available DC power)
- 2-pole relay output (switching of supplied power from power host

Signal interfaces
- 2 x Gbit Ethernet L1 for Multibeam (Reson 7125, R2Sonic 2024)
- PECL for Multibeam (Reson 8125)
- 6 x serial RS232
  - 10/100/1000 Mbit Ethernet
  - HD video (HD-SDI)
- Trigger signal
- Arcnet

Other
- Water ingress alarm
- Fibre diagnostics
- DC insulation monitoring

Topside
- Rack mount topside unit, with touch screen
- PC based control of subsea power switching and alarm/diagnostics monitoring

Topside control options
- Touch screen controller with Ethernet interface

Optional connector interfaces
- Fibre penetrator
- Opti-Con fibre connector
- Additional Burton 55-series 2021-E or 2013-E Gigabit Ethernet connectors
- Analogue video channels

Dimensions: Ø230 X 600mm

Note: technical specifications are subject to change without notice. We accept no liability for any inaccuracy or printing errors.

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