



Mini MATRIX™

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Part number: 1071453

The Mini Matrix is the response to a growing need for compact ROV systems carrying a larger spread of sensors. Based on the same technology as the successful Matrix Mk II+, the Mini Matrix provides a plug and play interface for a large array of sensors in a compact package.

Supporting most dual head multibeam systems available on the market. By combining a large number of Ethernet and serial channels together with access to analog video, the Mini Matrix is an ideal system for adding advanced survey capabilities with reasonable weight and size requirements.



Last modified: August 6, 2024 Note: We accept no liability for any printing errors or changes in specification.

Key features

- Small size
- Web based control interface
- Software resetable fuses

The advanced power management includes individual 2-pole power switching, insulation monitoring and software resettable fuses.

With 1050 W of DC power available in this compact system, the Mini Matrix delivers market leading power to size ratio.

All functions are controlled from the 19" rack-mount topside controller, with touch screen interface and web-based remote control.

TOPSIDE

- 7" Linux based touch screen interface for control and diagnostics
- Status for all channels on screen
- Voltage and current monitoring
- Alarm / warning logging
- Operational hours logged
- Web browser based interface for mirrored control
- Ethernet connection for control
- 19" 3U rack mount
- · Weight: 8 kg

POWER INPUT

Subsea:

- 85 264 VAC / 120 300 VDC
- 47 63 Hz

Topside:

- 90 265 VAC
- 47 63 Hz

POWER OUTPUT

- Software resettable fuses on DC power output
- 2 x 24/48 VDC (6 A) SW switchable
- 1 x 24 VDC (6 A) fixed output. Optional: 48 VDC (3 A)
- 10 x 24 VDC (2 A) outputs 2-pole relay
- 1 x 110 VAC 2-pole relay output
- 1050 W available DC power

SIGNAL INTERFACE

- 10 x RS232
- 4 x software switchable RS232/RS485
- 3 x 1 Gbps Ethernet 10/100/1000
- 3 x Analogue video
- 2 x 5 V trigger
- · All serial and trigger interfaces are isolated

MECHANICAL PROPERTIES

Material: Aluminium 6082-T6, hard anodozied
Dimensions: Ø 230 mm (223 mm in centre)

L 355 mm

Weight Canister: 25 kg (air), 12 kg (water)

Depth rating: 3000 msw

CONNECTORS

	Туре	Communication	Power
C1	5506-2021	1 Gbps Ethernet, RS232, Sync with C2	24 / 48 VDC (6 A) (SW switchable)
C2	5506-2021	1 Gbps Ethernet, RS232, Sync with C1	24 / 48 VDC (6 A) (SW switchable)
C3	5506-2021	1 Gbps Ethernet, RS232/RS485, Trigger Ch. 2	24 VDC (6 A) Optional: 48 VDC (3 A)
C4	5506-1508	Camera 1 (Composite Video), RS232	24 VDC (2 A)
C5	5506-1508	Camera 1 (Composite Video), RS232	24 VDC (2 A)
C6	5506-1508	Camera 1 (Composite Video), RS232	24 VDC (2 A)
C7	MCBH8F	RS232	24 VDC (2 A)
C8	MCBH8F	RS232	24 VDC (2 A)
C9	MCBH8F	RS232, Trigger Ch. 1*	24 VDC (2 A)
C10	MCBH8F	RS232, Trigger Ch. 1*	24 VDC (2 A)
C11	MCBH8F	RS232/RS485	24 VDC (2 A)
C12	MCBH6F	RS232	=input voltage, AC only (2 A)
C13	MCBH8F	RS232/RS485	24 VDC (2 A)
C14	MCBH8F	RS232/RS485	24 VDC (2 A)
Fibre	472-F-BCR, SM (OPT-F1-BCR, SM)	Topside<->Subsea Single mode	
Power	5506-2006		85-264 VAC (47-63 Hz) 120-300 VDC

^{*}Trigger Ch. 1 is shared between C9 and C10

OTHER

- Two-stage noise attenuation filter on power input
- Humidity sensor subsea
- Temperature sensor topside and subsea
- DC ground fault detection system
- Fibre and SFP diagnostics
- · Control board diagnostics
- Water ingress detection

