



CUTE

Camera Controller Board

www.innova.no

The Innova camera controller board is designed to provide necessary functionality to control 4 cameras and lights used in subsea intervention systems.

The board has analogue outputs for light control, controllable power outputs for camera power, motor driver outputs suitable for camera functions (zoom / focus) and water alarm input. It is also fitted with a 4 to 1 video multiplexer and drivers for controlling 4 external relays (typically light relays).

The camera power outputs are fitted with electronic resettable fuses. Relays are provided for camera outputs (power and zoom / focus) to be able to isolate the outputs in case of water leakage in external camera cables.

Key features

- 4 analogue outputs for controlling light dimming functions
- 4 camera power outputs
- 4 drivers for external relays
- 8 full bridge outputs for driving focus/zoom etc.
- 1 water alarm input

Remote control is possible via RS-232 or multi drop RS-485 communication. Several units can be controlled over a single RS-485 network.

PHYSICAL I/O CONFIGURATION

- 4 analogue outputs with 10 bit resolution, 0-10V for controlling light dimming functions
- 4 camera power outputs, each fitted with 2-pole relays, "electronic fuse" and current measurement
- 4 drivers for external relays (12 or 24 VDC coil)
- 8 full bridge outputs for driving focus/zoom etc.
- 1 water alarm input
- 4 to 1 video multiplexer
- 4 ch video isolation with relays in Video Switch version
- RS-232 or RS-485 communication to host system

SOFTWARE FEATURES

- "Do All" function that read and write all I/O in one command
- Configurable power-up state
- Configurable loss of communication output state (keep current state or set predefined state)

POWER, CURRENT AND TEMPERATURE

Power supply voltage:	12 VDC and 12 VDC or 24 VDC for camera power
Current consumption:	350 mA
Max camera load:	2 A
Load current quantification:	10 bit
Temperature range:	0 °C to 70 °C

SIZE AND MOUNTING INTERFACE

Size (L x W x H): 160 x 100 x 12 mm

Mounting: Rail mounting on the short edges.
Alternatively mounted by 4 holes for M3 bolts, 1 in each corner 5 mm from the edges.
Connections on the long sides.

TERMINALS

Power, Serial &

Water Alarm: Phoenix MC 1,5/10-ST-3,81 connector

Dimmer outputs: Phoenix FK-MC 0,5/6-ST-2,5 connector

External relays: Phoenix FK-MC 0,5/6-ST-2,5 connector

Video : Coax connector, DIN41612

Video Switch
version: MCX

Cameras: Phoenix MC1,5/6-ST-3,81 connector

Zoom / focus
configuration: Phoenix FK-MC 0,5/4-ST-2,5 connector