C2 PRO

MAP Pro Autonomous Conversion Systems

Overview

The C2 Pro is a mobile ground control station (GCS) from **MAP Marine Technologies**, a portable platform to control any unmanned surface vessel (USV) equipped with the **MAP Pro Autonomous Conversion System**.

The multi-functional GCS is easily customized, mobilized and operated, thereby satisfying the requirements of a wide spectrum of remotely-operated missions.

- Connects to your USV, anywhere in the world.
- Provides full control over the USV, including its steering, propulsion, and payload systems.
- Completely mobile, effortlessly transported to any location.
- Integrates custom devices required for different kinds of USV missions.

Full USV Control

- Plan and upload routes for autonomous navigation through the **MAP Planner** software on the C2Pro.
- Access navigational charts, engine data, and diagnostic and sensory information from the USV.
- Control onboard payload specific to the current mission.

Portable, Mobile Unit

- Compact and lightweight design.
- Equipped with a pull handle & wheels.
- 1-hour operation without an external power source.
- Battery pack extension via a 12VDC connector.
- Fast charging from its 20m shore power cable, using a standard power outlet.

High Modularity

- Easily modified to meet the needs of multiple kinds of missions.
- Equipped with two modular plates that can be machined to fit operation-specific electronic devices (VHF transponder, EO/IR gimbal joystick, etc.).
- Can be uploaded with different applications to access the control interfaces of the USV.

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Features

- **MAP USB Joystick:** Allows the operator to control the vessel manually.
- **Display Monitors:** Twin 27" full HD display monitors.
- **Customizable Plate:** Can be fabricated to fit any electronic device suitable to the USV mission (device in illustration - FLIR JCU).
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- **I/O Hub:** Ethernet switches, USB 3.0 Hub.
- **Mouse and Keyboard:** Wireless Logitech K400+ Keyboard, and Logitech Trackman Marble Trackball Mouse.
- **Power Button and LEDs:**

- **Bottle Holder:** SS AISI 316 electropolished bottle holder.

I/O Ports

- **Shore Power Inlet** 230V/16A @ 50Hz, w/ locking mechanism.

- **IP67 RJ45 Connector** Connects the C2 Pro to LAN networks or other IP devices.

- **12VDC Connector** Battery pack extension, or to power a 12V external device.
- **VHF Antenna Connector** Connects a VHF transceiver to an external antenna (optional).

- **External Screen Mirroring** Mirrors the C2 Pro display (monitors 1 and 2) onto an external display.

- **Internal battery (w/ fast charging)** Internal battery, allowing the C2 Pro to work for 1 hour without an external power source.

Technical Specifications

Electrical Specifications	
Operating Voltage	230V @ 50Hz
Max. Power Consumption (battery charger capacity)	180W, (12V/15A)
Output Voltage	12VDC
Battery Capacity	12Ah
Estimated Battery Life	1hr
Charging Time	40 mins
Mechanical Specifications	
Weight	50kg
Dimensions (in mm)	1686 x 680 x 330

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