



**YACHT  
CONTROLLER**  
YACHTING INNOVATIONS

**DUAL BAND**

*plus*

## WIRELESS CONTROL SYSTEM FOR BOATS WITH ELECTRONIC ENGINE CONTROLS



The natural evolution of the Dual Band, the **Dual Band Plus** includes certain features until today only available on the EN-JOY (wireless joystick) model.

Dual Band Plus is provided with two different transmission bands to avoid any interference caused by the presence of nearby equipment.

Two flashing LEDs on the front of the transmitter indicate the simultaneous transmission of the two control signals on both bands. If there is any interference or operating faults on one of the two bands, the receiver automatically continues receiving on the other.

The transmitter and receiver also communicate using a coded protocol to exclude any interference with other similar equipment installed nearby.

The small size of the transmitter means that it can be carried by hand or worn around the neck as preferred.

The transmitter has an Engage button that, with the receiver on, allows control to be taken for mooring.

The control panel has special and exclusive levers with silicone membranes, guaranteed for more than 250,000 actions, giving control of the two engines, the bow thruster, stern thruster and the anchor winch/anchor winches.

The transmitter is resistant to immersion in water and floats.

The battery compartment on the back is also watertight and allows quick, simple changing of the three AAA batteries, widely available everywhere.

## FEATURES

- ▶ Dual transmission bands to ensure effective operation even with external interference or faults on one of the two bands
- ▶ Multiprocessor configuration on the receiver (a main CPU and a specific microprocessor for each function) providing double control and making undesired commands due to faults impossible
- ▶ Double relay for each control output preventing unwanted signals due to possible but improbable, operating faults
- ▶ Modular design and so easy to modify if you want to add new functions like control of the bow/stern thrusters and control of the anchor winch, if these were not requested at the time of purchase
- ▶ For almost all models, changing boats and consequent possible change of electronic control heads does not require purchasing a new Yacht Controller unit, but simply the replacement of the engine/interface module
- ▶ LEDs on the front panel of the receiver indicate correct operation of the electronics, the active state of controls, and type of fault if present
- ▶ A beeper signals not only the loss of connection with the transmitter but also the different operating and alarm states
- ▶ Easy integration with Yacht Controller DUAL BAND, EN-JOY, EN-JOY Plus wireless, and with the JCS Plus manoeuvring joystick
- ▶ AUTOMATIC mode uses engines and thrusters simultaneously to facilitate mooring even for less experienced operators
- ▶ Acceleration control (possible with certain control heads provided with digital protocols – button "S") and control of up to 2 anchor winches



**YACHT CONTROLLER Dual Band Plus** is very easy to operate:

simply put the electronic control heads into the "neutral" position,

enable the **YACHT CONTROLLER Dual Band** receiver with the switch placed on the dashboard,

switch on the **YACHT CONTROLLER Dual Band Plus** transmitter with the ON/OFF button and take control with the Engage button on the transmitter. From this point onwards, the system is operational.



# DUAL BAND *plus*



To activate the engines and bow and stern thrusters, hold the levers pressed in the required direction.

To activate the anchor winch(es) press the buttons for the required function (anchor UP or anchor DOWN).

When pressure is released from any of the silicon levers, the system returns to "neutral" mode.

To activate the acceleration function, press the "S" button.

There are 5 different standard acceleration profiles.

The required profile is selected by repeatedly pressing the "S" (Speed) button. If a second receiver is added or with an extended receiver, other functions can be operated on the boat, like opening doors, controlling gangways, lights, and many others.

Installation is quick and easy: simply connect the receiver to the control levers and to the switches and/or joysticks of the thrusters and anchor winch(es).

YACHT CONTROLLER Dual Band Plus is available for connection to the majority of electronic controls currently on the market:

Volvo, MAN, Aventics, Bosch Rexroth, ZF/Mathers, Morse, Teleflex, Twin Disc, Vetus, MTU, Detroit Diesel, DTS, Caterpillar, MAN, Glendinning, Ultraflex, Flexball, Yanmar, etc.

The system is guaranteed for 2 years and must only be installed by authorized personnel.

## TECHNICAL FEATURES

- ▶ Transmitter power supply: 3 x 1.5V AAA batteries
- ▶ Transmission and discharged batteries LEDs
- ▶ Receiver Transmission power: from 12 VDC to 24 VDC +/- 5% max
- ▶ Transmitter with IP65 protection rating
- ▶ Transmitter dimensions: 122 x 69 x 42 mm
- ▶ Receiver dimensions: 180 x 170 x 75 mm
- ▶ Outputs for controlling two electronic control engines forward/reverse, bow and stern thrusters, anchor winch(es) up/down, acceleration button (S), AUTOMATIC/MANUAL button (A)



## VERSIONS AVAILABLE - YACHT CONTROLLER DUAL BAND PLUS

<b>TX+RX 09/02/N</b>	(port and starboard engine control)
<b>TX+RX 09/02/A</b>	(port and starboard engine control, anchor winch control)
<b>TX+RX 09/03/N</b>	(port and starboard engine control, bow thruster control)
<b>TX+RX 09/03/A</b>	(port and starboard engine control, bow thruster control and anchor winch control)
<b>TX+RX 09/04/N</b>	(port and starboard engine control, bow thruster control and stern thruster control)
<b>TX+RX 09/04/A</b>	(port and starboard engine control, bow thruster control, stern thruster control and anchor winch control)
<b>TX+RX 09/04/A1/A2</b>	(port and starboard engine control, bow thruster control, stern thruster control and two anchor winch controls) with second receiver or "extended" receiver.

The illustrated product and technical specifications are subjected to modification without prior notice. Yacht Controller S.r.l. are not responsible for cases of non-availability of products or product versions. This leaflet is intended for international use. Not all products are available in every country. Yacht Controller is a registered trademark.

### YACHT CONTROLLER S.r.l.

**Head Office and Production:**  
Via Pavia, 21  
20835 Muggiò (MB)  
Fax +39 02 66400086

**Sales Office:**  
Tel. +39 02 61310020  
Email: [info@yachtcontroller.it](mailto:info@yachtcontroller.it)  
VAT no. 03215950969

[www.yachtcontroller.it](http://www.yachtcontroller.it)