dockmate®

WIRELESSLY CONTROLLED DOCKING

WHY DOCKMATE?

With industry leading technology, the Dockmate® system provides a stress-free docking experience. You are able to leave the helm and get a closer look at your surroundings while still in complete control of the boat's movement, resulting in total control during typical manoeuvring in marinas and tight quarters.

As yachtsmen with more than 40 years of experience, we truly believe in the simplicity of things, and more specifically: simplicity of operation and control. We were looking for the best wireless remote control system, and when we couldn't find it, we decided to make it ourselves. That is why we kept our remote's layout intuitive. Making the best wireless remote control system is what drives us.

WE DELIVER THE BEST USER EXPERIENCE POSSIBLE

Our company is focussed on engineering a sole product line, designed to deliver the best docking experience possible.

WE INTERFACE WITH ANY ELECTRONIC SYSTEM ON YOUR VESSEL

Dockmate® fits any boat. We interface with any electronic manoeuvring system on your boat, making sure you have full control. We support all brands.

WE OFFER THE BEST ACCURACY ON THE MARKET

Because we're deeply integrated, we control every aspect of manoeuvring systems for docking, like proportional throttle control on the engine(s) or motor(s) and variable speed on the thruster(s)*.

WE CONNECT WIRELESSLY IN THE MOST RELIABLE WAY

Our wireless protocol constantly switches between several radio channels (FHSS system) ensuring safe and reliable control over your vessel.

* On compatible thruster systems

DOCKMATE® SINGLE

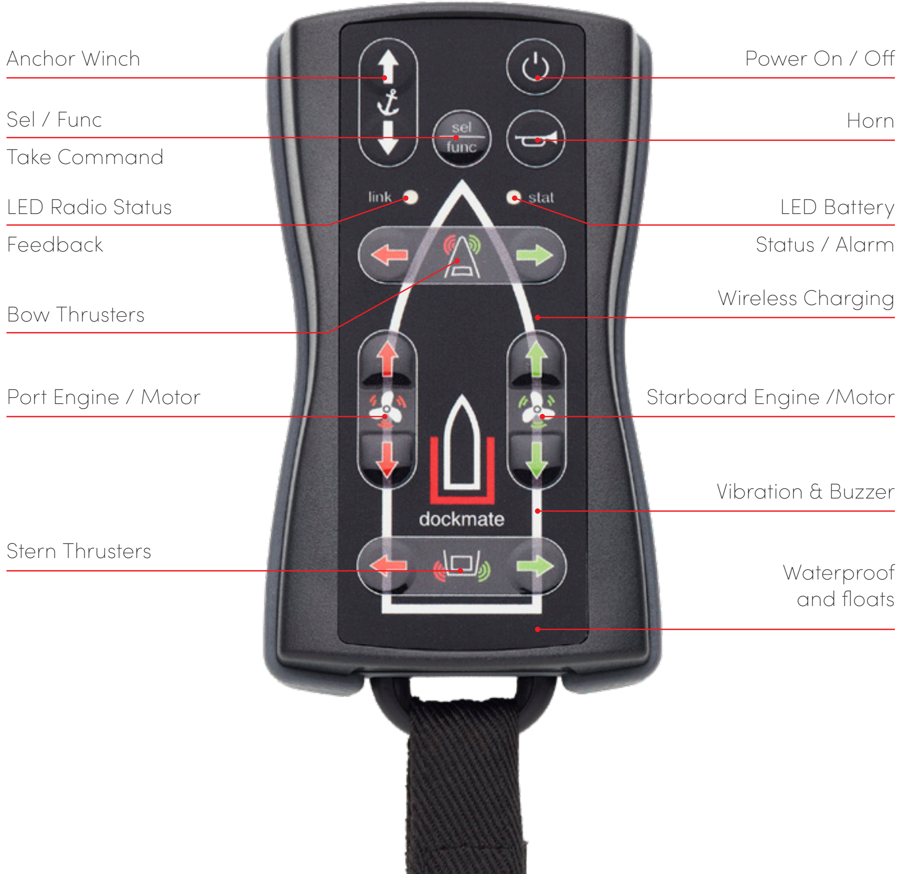
Dockmate® SINGLE is a wireless extension of your boat's controls with the exact same feeling and response time, enhanced with exclusive features like SoftDocking and Throttle+. The SINGLE is waterproof and floats.

SPECIFICATIONS

Dimensions	70 x 150 x 40 mm
Weight	ca. 150 g
Wireless protocol	DockLink2™
	868,3 MHz band
Range	50 metres
Housing	ABS & rubber - according to IP67 specifications
Power	320+ mAh Li-ion battery
	Lasts up to at least 15 docking manoeuvres of approximately 10 minutes
	Qi-certified wireless charging
Operating temperature	0°C to +43°C

DOCKMATE® TWIN

Manoeuvre your boat from any place on board. Control 2 engines, bow thruster*, stern thruster*, 1 or 2 anchor winches or windlasses*, and horn with separate buttons. Enjoy exclusive features like SoftDocking, Throttle+ and Engine Trick**.
The TWIN is waterproof and floats.



* Thrusters and windlass controls are optional
** If you only have a bow thruster

SPECIFICATIONS

Dimensions	70 x 150 x 40 mm
Weight	ca. 150 g
Wireless protocol	DockLink2™ 868,3 MHz band
Range	50 metres
Housing	ABS & rubber - according to IP67 specifications
Power	320+ mAh Li-ion battery Lasts up to at least 15 docking manoeuvres of approximately 10 minutes Qi-certified wireless charging
Operating temperature	0°C to +43°C

DOCKMATE® TWIST

The TWIST can be fully customised to combine engine- and thruster control in 1 joystick. Moreover, the TWIST's proportional 3-axis joystick can provide fully proportional control of the boat's engine(s) / motor(s) and thruster(s). All the while offering the exact same feeling and response time as the boat's fixed controls.

- Horn and 1 or 2 winches or windlasses can also be controlled from the TWIST
- The TWIST transmitter can be used as a remote control or as a fixed joystick (when clamped in its Cradle)
- The Twist is compatible with traditional control heads and joystick systems alike.

SPECIFICATIONS

Joystick	3-axis, proportional
Dimensions	70 x 150 x 40 mm
Weight	ca. 150 g
Wireless protocol	DockLink2™ 868,3 MHz band
Range	50 metres
Housing	ABS & rubber - according to IP67 specifications
Power	320+ mAh Li-ion battery Lasts up to at least 15 docking manoeuvres of approximately 10 minutes Qi-certified wireless charging
Operating temperature	0°C to +43°C

DOCKMATE® VECTOR

If you have a boat with a joystick system (from Volvo Penta Mercury, Zeus, Yamaha, etc.) then the VECTOR remote is the one for you.

- The Dockmate® VECTOR offers a wireless extension of your boat's joystick with the exact same feeling and response time
- Control PODs, stern drives, outboards or shafts with the fully proportional Dockmate® joystick
- Operates Dynamic Positioning Systems (DPS), when installed*
- Allows you to engage High Mode, or similar modes.

* and compatible

SPECIFICATIONS

Joystick	3-axis, proportional
Dimensions	70 x 150 x 40 mm
Weight	ca. 150 g
Wireless protocol	DockLink2™ 868,3 MHz band
Range	50 metres
Housing	ABS & rubber - according to IP67 specifications
Power	320+ mAh Li-ion battery Lasts up to at least 15 docking manoeuvres of approximately 10 minutes Qi-certified wireless charging
Operating temperature	0°C to +43°C

DOCKMATE® RED

Developed as a budget solution for boats with the most common analogue controls (engine AND thrusters). Comes as SINGLE or TWIN (no TWIST or VECTOR available) Special features (Throttle+, SoftDocking, Engine Trick, ...) are not available on these units.

The RED comes pre-configured with analogue idle speed engine modules and on/off thruster modules. The only available option is control of one anchor, winch or windlass.

SPECIFICATIONS

Dimensions	70 x 150 x 40 mm
Weight	ca. 150 g
Wireless protocol	DockLink2™ 868,3 MHz band
Range	50 metres
Housing	ABS & rubber - according to IP67 specifications
Power	320+ mAh Li-ion battery Lasts up to at least 15 docking manoeuvres of approximately 10 minutes Qi-certified wireless charging
Operating temperature	0°C to +43°C

DOCKMATE® RECEIVER

SPECIFICATIONS

The device our Dockmate® remotes talk to. The Receiver translates the commands given through the remote and relays them to your boat's controls. The Receiver is in essence the link between the Dockmate® remote and your boat.

- The Dockmate® Receiver is a modular system. Every Receiver is assembled and programmed for a specific boat. The boat's equipment and the customer's wishes determine which modules are installed in the Receiver.
  This means every Dockmate® is built to order.
- The Receiver is connected to all the necessary controls of your boat.
- The Receiver is made out of aluminium and completely waterproof to IP67 rating.
- The Receiver supports both analogue and digital (CAN bus) controls. See our ever-evolving list of supported controls.

DOCKMATE® CRADLE

SPECIFICATIONS

Fixed joystick or wireless remote control?
Dockmate® TWIST or VECTOR, combined with its Dockmate® Cradle — a wireless charger —, provides the best of both worlds. The Dockmate® Cradle is specially developed to accommodate the Dockmate® remotes, including the SINGLE and TWIN.

- Mounted anywhere inside or out, like on the flybridge.
- Waterproof (IPX6)
- UV-resistant
- Anodized aluminium chassis.
- Multiple units can be installed for optimal convenience.

	DOCKMATE® RED SINGLE DOCKMATE® RED TWIN	DOCKMATE® SINGLE DOCKMATE® TWIN	Dockmate® TWIST	Dockmate® VECTOR
Easy take command procedure	YES Just turn on the remote, or press SEL or CMD if already on	YES Just turn on the remote, or press SEL or CMD if already on	YES Just turn on the remote, or press SEL or CMD if already on	YES Just turn on the remote, or press SEL or CMD if already on
Engine Trick	NO	YES (only on Twin)	YES	N/A
SoftDocking™	NO	YES	YES	N/A
Throttle+™	NO	YES	YES	N/A
Can throttle the engines	NO	YES	YES	YES
Proportional Engine/motor control	NO	NO	YES	YES
Bidirectional wireless communication protocol	YES	YES	YES	YES
Can turn pods, stern drives, outboards if connected to joystick	N/A	N/A	YES	YES
Thrusters	YES bow & stern	YES bow & stern	YES bow & stern	YES only bow
Proportional thruster control of compatible proportional thrusters	NO	NO	YES	YES
Can control 1 anchor winch	YES	YES	YES	YES
Can control 2 anchor winches	NO	YES	YES	YES
Can control the horn	YES	YES	YES	YES
Supports Qi wireless charging	YES Wireless charger included	YES Wireless charger included	YES Wireless charger included	YES Wireless charger included

	DOCKMATE® RED SINGLE DOCKMATE® RED TWIN	DOCKMATE® SINGLE DOCKMATE® TWIN	Dockmate® TWIST	Dockmate® VECTOR
Can be used as a fixed joystick	NO	NO	YES	YES
Advanced software so installer can customise settings to your boat's specifications and your needs	YES	YES	YES	YES
Can (de)activate some kind of Slow Mode, like trolling	NO	YES	YES	N/A
Can (de)activate some type of Joystick High Mode	N/A	N/A	YES	YES
Can (de)activate DPS	N/A	N/A	YES	YES
Remote is waterproof	YES IP67	YES IP67	YES IP67	YES IP67
Remote floats	YES	YES	YES	YES
Receiver is waterproof	NO	YES IP67	YES IP67	YES IP67
Remote Visual Indicators / Alarms (LEDs)	YES	YES	YES	YES
Remote Audio Indicators / Alarms ("beeping")	YES	YES	YES	YES
Remote Vibrating Indicators / Alarms	YES	YES	YES	YES
Receiver Visual Indicators / Alarms	YES	YES	YES	YES
Receiver Audio Indicators / Alarms	YES	YES	YES	YES

DOCKMATE® SOFTDOCKING

Regardless of the size or type of boat, power or number of engines, one thing that every boater understands is docking is made more complex by the delay between engaging the throttle and the moment the boat begins to move. This is one of the biggest differences between driving cars and driving boats. So much so that beginner, and even some advanced, boating safety courses have sections entirely dedicated to safe docking techniques to help boaters understand and feel comfortable.

Now, Dockmate® has solved this problem for good. With our newly-patented SoftDocking technology, a short push of the joystick or button will consistently result in a pre-programmed customisable fraction-of-a-second burst of the propeller. With SoftDocking you can easily and consistently "bump" the engine(s) or motor(s), enabling you to softly dock a boat. This completely removes the ensuing stress of engaging the throttle into gear.

This game-changing functionality is standard on all new Dockmate® systems (except Dockmate® RED).

DOCKMATE® THROTTLE+

In an effort to give users the most flexibility and control to operate their vessels in almost any situation or conditions, Throttle+ offers a predetermined additional boost of throttle on every SINGLE, TWIN and TWIST Dockmate remote control.

Building on the recent release of Dockmate's patented SoftDocking feature, every Dockmate can now have three levels of engine control. On SINGLE and TWIN models a quick press of the forward or reverse button gives a pre-programmed gentle rotation of the prop, called SoftDocking.

For close quarters maneuvering, a longer press of the forward or reverse buttons engages idle power. By pressing the "SEL/CMD" button while pressing either forward or reverse gives a pre-programmed boost of additional throttle called Throttle+.

This predetermined amount of throttle can be calibrated per direction to fit the precise needs of each customer and the type of vessel they own. On a TWIST (joystick) remote there is no need to press the SEL button to use Throttle+. Instead Dockmate uses the proportional nature of the TWIST joystick, allowing users to shortly prush the joystick for SoftDocking, lightly push the joystick in any direction forward, reverse or diagonal, for idle speed or, push the joystick further over the Throttle+ threshold to engage the additional thrust (Throttle+). SoftDocking and Throttle+ are pre-loaded on all new Dockmate® systems (except for Dockmate® RED) and are configured during installation.

DOCKMATE® DOCKCONTROL 2

Dockmate®'s DockControl2™ software offers the ultimate in remote control customisability! At the same time DockControl2™'s built-in DockLink2™ wireless communication protocol is best in class.

Dockmate® combined with our DockControl2™ software offers customers a remote-control solution that can be tailored to the real-world capabilities of their vessel and their own boating style. DockControl2™ gives the installer the ability to program the remote control by choosing any combination of engine and thruster activations.

IT ALLOWS FOR:

- Calibrating the amount of throttle available on the Dockmate remote
- Adjusting the output of proportional CAN bus thrusters, when using a Dockmate remote
- Adjusting the sensitivity and behaviour of the Dockmate® TWIST and VECTOR joystick
- Choosing which functions are engaged by each joystick direction
- Choosing which functions are (de)activated by certain buttons
- Adjusting the size of the joystick's dead-zone and sensitivity to avoid accidental activation

IT CAN ADD FUNCTIONALITY THAT WAS PREVIOUSLY UNAVAILABLE ON A BOAT, LIKE:

- moving a boat with 2 engines and a bow thruster sideways parallel
- moving a boat with 2 on/off thrusters sideways parallel

EXAMPLE 1 OF FLEXIBILITY AND ADDED FUNCTIONALITY:

Many boats have 2 engines but only 1 bow thruster (no stern thruster). A skipper can "walk the boat sideways parallel" by pushing Dockmate®'s TWIST joystick to the left or right.
This will engage the boat's engines (one forward, one astern) and bow thruster simultaneously, but one of the functions (bow thruster or engines/motors) is more powerful than the other.
A skipper can still "walk the boat sideways parallel" by just using Dockmate®'s TWIST joystick.

→ When you push the joystick a little bit sideways, only the weakest function (usually the bow thruster) will activate.

→ When you push the joystick completely sideways, the thruster and engines/motors activate.

→ By alternating between these 2 states, you can make the boat move sideways parallel.

*For Dockmate RED systems less options, features and settings can be customised

EXAMPLE 2 OF FLEXIBILITY AND ADDED FUNCTIONALITY:

Many boats have 2 on/off thrusters (bow and stern).
When you have 2 non-proportional thrusters, one thruster is more effective than the other. This makes moving the boat sideways parallel not as straightforward as you may think.
A skipper can still "walk the boat sideways parallel" by just using Dockmate®'s TWIST joystick.

→ When you push the joystick a little bit sideways, only the weakest thruster activates.

→ When you push the joystick completely sideways, both thrusters activate.

→ By alternating between these 2 states, you can make the boat move sideways parallel.

DOCKMATE® DOCKLINK™

Dockmate's proprietary DockLink2™ wireless communication protocol is best in class. It was developed from the ground up for wireless remotes for boats and trumps the competition in both reliability, speed, and features. DockLink2™ operates in either the 868MHz or 433MHz band, depending on local regulations, and is a superior, state of the art 2-way FHSS (Frequency Hopping Spread Spectrum) communication with handshake, GFSK, data whitening, FEC (Forward Error Correction) and interleaving. The result is an industry-leading protocol with a range of 50m (165feet) that virtually eliminates any possible chance of interference.

WHAT DOES ALL THAT MEAN?

2-way communication means that there is not only a communication from the Dockmate remote to the Receiver, but also from the Receiver to the Dockmate remote, so you have your Dockmate's status in your hand.

The handshake means that your Dockmate remote can only control your Dockmate system and not your neighbours' Dockmate. Similarly, anyone else's Dockmate remote cannot control your Dockmate system.

GFSK (Gaussian Frequency Shift Keying) minimises noise generated outside of the used channels. It allows us to use many narrow channels with high data rates. That means less interference and quicker reactions from your Dockmate.

FHSS (Frequency Hopping Spread Spectrum) is a method where Dockmate's radio signals rapidly change channels (5 times per second), to avoid interference from strong signals. Out of the tens of thousands of possibilities, the DockLink2™ algorithm chooses a unique set of channels, spread over a whole band for optimal performance.

Data Whitening, Forward Error Correction and Interleaving are all advanced features that help us ensure the reliability of our wireless communication protocol, as well Dockmate's superior features, and range.

We are committed to improving DockLink2™ and releasing even more advanced versions of DockLink™ in the future.

*Dockmate RED uses DockLink1™, which is still the world's second best wireless remote protocol.

DOCKMATE® FEATURES

- Waterproof (IP67) remotes, with a rubber finish, that float
- Waterproof (IP67) modular Receiver with waterproof connectors
- Waterproof (IPX6) wireless charging Cradle **(optional)**
- Proportional 3-axis joystick with a twist function
- Custom made cables for plug and play connection
- Automatic take command via the remote, to make it the active station
- Highly reliable 2-way (FHSS) communication between remote and Receiver
- Visual, audible and tactile alarm on the remote
- Visual and audible alarm on the Receiver
- Large operational range (50m)
- Support for electronic controls, both analogue and CAN bus
- Proportional throttle control (the more you push on the joystick, the more throttle is provided)
- Redundant "fail-safe" technology in both hardware and software
- 3 year manufactures's warranty

DOCKMATE® TECHNICAL DETAILS

Federal Communications Commission (FCC) certified

CE certified

Dockmate® can be powered from a 12V or 24V power supply. Dockmate® is available in 433 or 868MHz, depending on local regulations.

The Dockmate® system can control up to 7 functions!

- Horn
- Anchor windlass or winch - 1 or 2 anchors
- Port engine/motor
- Starboard engine/motor
- Bow thruster
- Stern thruster

The Dockmate® system has redundant "fail safe" technologies built into both the hardware and software.

Receiver dimensions: 23,8 x 20,5 x 8,6cm
Operational range: 50m

Dockmate® is a trademark of

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The product as illustrated and the technical specifications are subject to modification without prior notice.