



netwave NW6000 VDRs Series Data Recorders User Guide

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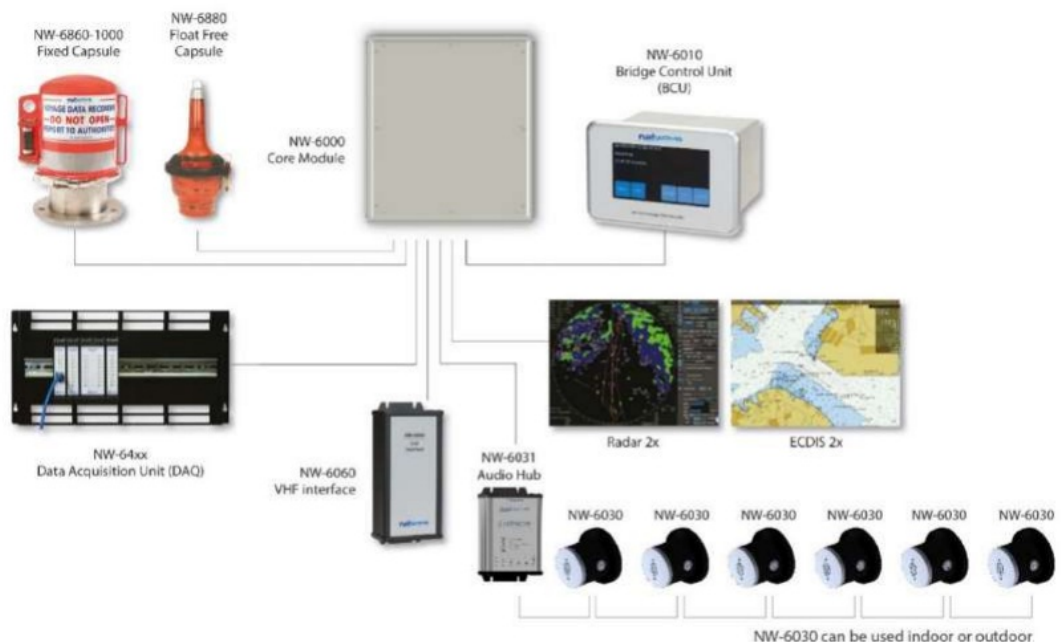
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The logo for Netwave, featuring the word "netwave" in a bold, lowercase, sans-serif font. The letters are a dark blue color, and there is a subtle gradient or shadow effect behind the text.

netwave NW6000 VDRs Series Data Recorders



Designed and manufactured in the EU and supporting a global fleet of over 6000 vessels, the Seas Of Solutions' Netwave brand has been a global leader in the provision of Voyage Data Recorders (VDRs) for over a decade. With a reputation for innovation, design diversity and a focus on quality, a diverse range of customers deploy Netwave technology. Military, Search and Rescue, Coast Guard, Commercial Marine and Cruise Ships customers are confident in its proven ease of installation, multiple IMO certifications including the Wheelmark and its unparalleled global support network; made up of approximately 320 Service Centres and 1300 engineers.



What is a VDR?

Voyage Data Recorders (VDRs) are mandated for commercial vessels under regulation 20 of SOLAS Chapter V, with the aim to enable accident investigators to review procedures and instructions in the moments before an incident and help to identify the cause of any accident. The VDR collects data from the sensors on board the vessel and stores it in an externally mounted Fixed Capsule. The capsule can be retrieved from the vessel and

the stored data used to support investigations by authorities, therefore the capsule is a tamperproof unit designed to withstand the extreme environments, including impacts, shock, pressure and heat associated with a maritime incident.

Five Reasons Why Fleet Managers Install Netwave Brand VDRs

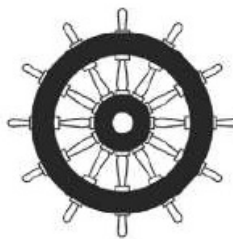
The Netwave NW6000 Series is one of the world's most popular VDR solutions, allowing fleet managers the flexibility and confidence to install technology with their requirements in mind. The top five reasons our customer's highlight for picking Netwave are:

Design Versatility



- Single ethernet cable system architecture significantly reduces cabling requirement, while extensive Power by Ethernet (PoE) capability is designed to reduce installation time
- Flexible, scalable installation design makes the NW6000 Series particularly attractive for VDR / (S)VDR retrofits
- Proven solid state memory architecture minimizes ongoing maintenance and support costs.
- Unique stainless steel Fixed Capsule housing offers a resilient design to protect vital recorders.

Brand Quality



- Netwave brands globally recognised quality, ISO9001, AS9100 and MED Module D certificates and IMO required certifications including Wheelmark, Russian Register, and China Class.
- Extendable warranty options available

Competitive Solution

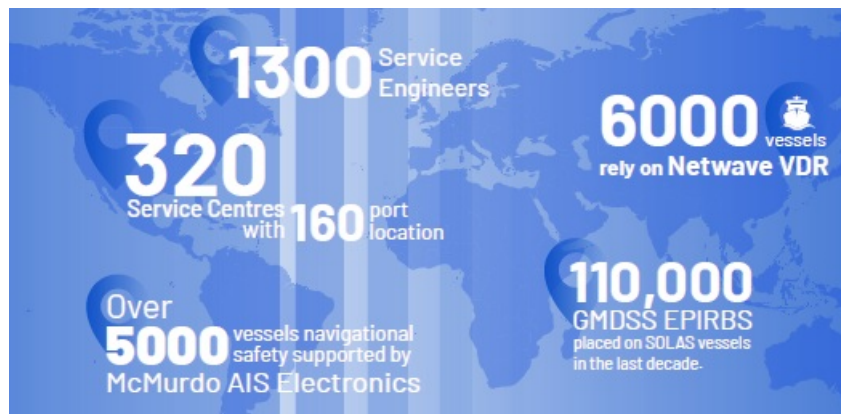
- Competitive price includes fitting kit and first APT, with multi-day auto archiving included as standard. The versatility of the NW6000 Series minimizes installation and maintenance costs, particularly for retrofits, and

comes with a brand reputation and service support you can trust.

Maritime Heritage

- The Netwave brand has been designing and manufacturing VDRs in Europe for over 15 years, with over a decade of experience in the design and manufacture of its' fixed capsule recording media, which is also widely used in OEM.
- Over 6000 vessels currently trust their mandated VDR / SVDR requirements to Netwave, including Cruise ships, Ferries, Commercial vessels, Coast Guard and Workboats.

Service Network



- 160 service center ports on major shipping routes supported by approximately 1300 service engineers, Seas Of Solutions offers unparalleled support infrastructure.

Netwave VDR Features





VDR Feature	Netwave NW6000
Days of data	30 days
Usability	Bridge Control Unit is highly intuitive and offers touch screen interaction
Service Coverage	Large Global Service Network, with approximately 1300 service engineers
OPT test	Crew can test VDR is operating correctly from Bridge Control Unit (BCU)
Cost of Ownership	Flexible installation platform designed with minimal cabling reduces install and maintenance requirements
Reliability	European design and manufacture, with a 6000+ vessel install base, global service and parts availability
Warranty term	Warranty included with option of extension
Spare Parts Availability	Service Centres in approximately 160 global ports
Re-Play Software	State-of-the-Art
Speed of client Response	24/7 customer service support, and satisfaction reflected in the latest customer feedback scores
Installation Time	Versatile design allows flexible installation
Future Proof	NW6000 meets the latest mandated requirements and is highly adaptable
Customization	Scalable, highly customizable architecture



What is an Inland Waterway VDR?

An Inland Waterways VDR or IW-VDR differs from the mandated SOLAS version in a number of ways. Primarily, the IW-VDR doesn't have the rigid specifications of the mandated variant and the solution can be configured for

the owner or vessel's requirements. The central capability is to capture Radar, AIS, GPS, Depth, Rudder Position, Compass and Angle of Turn, as part of the core eight sensor recording system. Secondly, as the configuration is not constrained by legal requirements; there is flexibility on what information is captured and the ability to upgrade the specification to include audio recordings and protected memory capsules via the addition of float-free or fixed capsules. This flexibility allows the owner to define what information they require and makes the solution more affordable by only capturing relevant data.

NW-6000 Specification Sheet

Unit	Type number	Dimensions (mm) (h x d x w)	Weight	Specifications	
Core module	NW-6000	484x450x45	16.5 kg	<ul style="list-style-type: none"> • PSU (110-220 VAC, 50 – 60 Hz) /105 Watt • Built-in UPS • 10 ports switch (8 x PoE, 2 x Non-PoE) • CPU unit with min. 30 days storage 	
Bulkhead mount frame and cover	NW-6900	744x464x115	11 kg (excl core module)	Bulkhead mount with prepared internal wiring and external RJ45 connector bank	
Bridge control unit	NW-6010	99x134x150	1.8 kg	<ul style="list-style-type: none"> • Powered from Core module thru PoE • 4" touch colour screen • Panel mounted with frame (IP20) 	
Microphone (Internal/ External)	NW-6030	83 x 83 x 70	0.4 kg	<ul style="list-style-type: none"> • Powered from Audio Hub • Analogue • LED identification light 	
Audio Hub	NW-6031	152 x 106 x 35	0.35kg	<ul style="list-style-type: none"> • Powered using PoE • Bulkhead mounted 	

VHF interface	NW-6060	180x47x87	0.5 kg	<ul style="list-style-type: none"> Powered thru PoE 2 line-in Interface for microphones Bulkhead mounted (IP20) 	
Hardened FRM	NW-6860	411x311	27.5 kg	<ul style="list-style-type: none"> Powered thru PoE from core module Incl. 25 mtr maritime CAT-6 cable Deck-mounted protective capsule for 48 hours (IP68) with Underwater locator beacon (90 days) 	
Float free FRM	NW-6880	533x218x240	5.4 kg	<ul style="list-style-type: none"> Powered thru PoE from core module Incl. 25 mtr maritime CAT-6 cable Bulkhead mounted in a protective cover for 48 hours storage (IP67) 	
Interface module	NW-64900	182x232x436	2-3 kg (subject to 1-7 module interfaces)	<ul style="list-style-type: none"> Powered thru PoE from core module DIN rail-mounted interface For NMEA (bd up to 9600) (multiple 8 port) For digital sensors (multiple 8 port) For analogue sensors (multiple 4 port) Additional 24 VDC power input/output 	

- Netwave Systems recommends maritime CAT-6 ethernet cable for connecting all units to the core module switch
- Complete system runs from 110-230 VAC (50-60 Hz) through core module
- Power consumption 105 watt (max)


About Netwave

Netwave is a global leader in the provision of Voyage Data Recorders (VDR) and Simplified VDRs, designed and manufactured in the EU for over a decade. With a reputation for quality, reflected in our mechanical and software innovations that help accelerate VDR retrofit economically, our systems are trusted by a global fleet of over 6000 vessels.

- www.seasofsolutions.com
- sales@seasofsolutions.com

Specifications subject to change or improvement without notice

Documents / Resources

	<p>netwave NW6000 VDRs Series Data Recorders [pdf] User Guide</p> <p>NW6000 VDRs Series Data Recorders, NW6000, VDRs Series Data Recorders, Data Recorder s, Recorders, VDRs Series</p>
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References

- [S Seas Of Solutions – Supporting Safer Sailing, Anytime – Everywhere](#)