



YOUR FLEET IN SAFE HANDS

Bridge Navigational Watch Alarm System

Set your course to simple compliance...

Martek Marine is here to steer you in the right direction when it comes to purchasing a BNWAS for your needs.

An international market leader in safety and environmental equipment, Martek Marine has developed Navgard™ - the market's easiest to install and fully compliant BNWAS with Type Approval from all the major Classifications Societies to IEC 62616 : 2010.

Only System Approved By All Major Classification Societies

NAVIGARD™ is the only BNWAS approved by **ALL** major classification societies: ABS, Bureau Veritas, China Class, Croatian Register, DNV, Germanischer Lloyd's, Indian Register, Korean Register, Lloyd's Register, Polish Register of Shipping, RINA, Russian Register. If you have ships of different class in your fleet, you don't have to worry about your classification societies rejecting a BNWAS that is only approved by a single different society, and/or incurring additional certification costs that are generally more than the cost of the equipment itself.

Lloyd's Register, Russian Register, RINA, China Class & GL have openly confirmed they will charge you extra if your selected BNWAS is not Type Approved by their society. It's important to consider these extra hidden charges when choosing your preferred BNWAS system – **with NAVIGARD™ you're guaranteed no such extra charges.**

The simplest
BNWAS to install -
GUARANTEED



Easiest, Quickest & Lowest Cost System To Install - GUARANTEED

When you chose BNWAS for your ships, equipment price is one thing, but more importantly you'll want to know how much the total installation will cost you, including materials & labour. That's why, unlike other BNWAS suppliers, we offer NAVIGARD™ INCLUDING all cable, brackets, boxes, bulkhead fixings & all cable glands. Unlike other systems, we've got nothing to hide - **with NAVIGARD™ you don't have to worry about hidden extra costs.**

NAVIGARD™ is the easiest & quickest system for you to install because alarms & resets are wired DIRECTLY to the control panel using a single cable type. Many other systems require you to wire to separate "interface" modules and then wire to the control panel using up to 5 different cable types. NAVIGARD™ can halve the time you take for cable installation, terminations, mounting, etc and make major reductions in the amount and cost of cabling required. **With NAVIGARD™ we GUARANTEE you a much quicker, simpler and cheaper installed cost than apparently lower cost equipment –or we'll give you your money back!**



navgard[™]
World's No.1 BNWAS



“All-in-One” Panel

NAVGARD™ has an integral high intensity siren for bridge alarm so you don't need to buy and install a separate one. NAVGARD™ has an integral cabin select function so you don't need to buy and install a separate selector switch.

NAVGARD™ has its own battery back-up so you don't have to install an additional emergency power supply cable. NAVGARD™ has integral NMEA comm's to VDR & integral fault alarm so you don't have to pay extra for these as you do with other systems – **we urge you to check competitors' offers carefully on each of these points!**

3-Year Warranty - Built To Last On Your Ships

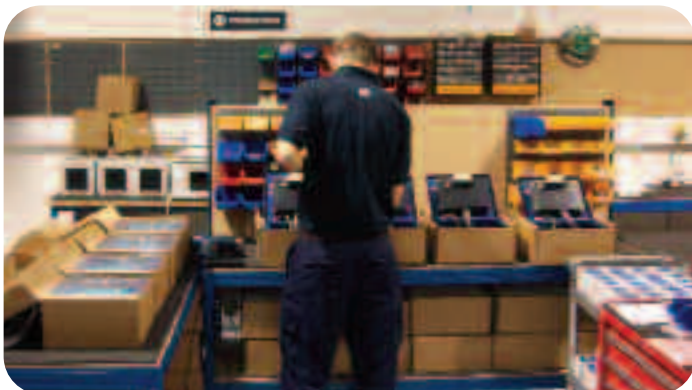
NAVGARD™ is supplied as a rugged enamelled steel panel and alarm reset push buttons are rated at 5 million operations that will last the lifetime of your ships. No other BNWAS has undergone the extremes of testing required by ALL the Classification Societies evidenced by all of our Type Approvals. Supplied with the best BNWAS warranty in the world **3-YEARS**, by choosing NAVGARD™ you can be certain you're buying the best BNWAS for your ships.

Unique Fail Safe De-activation Protection

To protect & deter against your crew switching BNWAS OFF & losing vital protection, NAVGARD™ confirms continuous operation by logging to integral SD-card and requires a MASTER password to switch it off. We don't use key switches as some competitors do, that provide no protection against the system being turned OFF. The grounding of MV KARIN SCHEPERS in 2009 Accident Report was caused by BNWAS being switched off by its key switch - can you risk this happening on your ships? NAVGARD™ also logs all alarm events in real time, giving you a permanent record of bridge activity.

Ex-Stock Availability

If you require your BNWAS to be despatched urgently to meet an urgent dry-dock, then NAVGARD™ is available ex-stock and can be despatched within 4 working hours of receiving your order. We've invested ~US\$500,000 to offer this unbeatable delivery service and are currently manufacturing NAVGARD™ in optimum batch sizes to meet the massive demand for the World's No. 1 BNWAS.



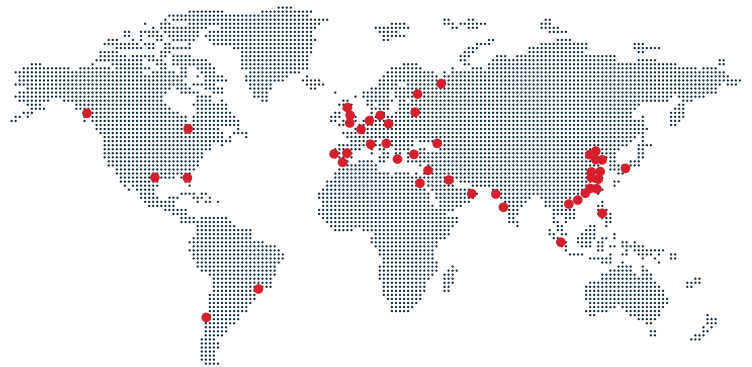
Only System with Built-in Central Motion Detector with 10m range

The NAVGARD™ panel includes an integral motion detector which for small bridges offers you the lowest cost compliant installation of all systems available.

57 Worldwide Service & Sales Partners

NAVGARD™ is supported by a worldwide network of 57 sales and service partners that continues to grow – please refer to our website for details of our service partner locations.

No other BNWAS manufacturer has as many trained partners.



Unique “Dual-tech” Motion Sensors To Prevent False Resets – Most Reliable In The World, GUARANTEED!

NAVGARD™ uses unique Type Approved dual technology **infra-red & microwave** motion sensors solving the problems of false reset by air-conditioning systems or objects moving on the bridge which affect conventional sensors. We also use digital temperature compensation to automatically adjust sensitivity ensuring sensors maintain detection range & reset function, even when the temperature on the bridge is near to body temperature.

Buy Now, Pay Later – 0% Interest

Get compliant and get on with your job.

By choosing NAVGARD™ from Martek Marine, you can rest assured that all compliance issues have been met and that you have chosen a quality product from the market leader.

Ask us for further details if this is of interest.

Technical Specifications

Operating Modes:	ON, OFF, Automatic, Port Security & System Test.
System Controls:	Membrane keypad for: Reset; Officer Call; Emergency Call.
Navigation keys:	Up, Down, Select & Back.
Reset Inputs:	Up to 8No. passive infra-red PIR motion sensors; Up to 6No. manual pushbuttons; 1No. On Board directional PIR. Up to 4No. digital inputs from auto pilot/gyro compass, radar/arpa, navigation equipment power fail, etc.
Reset Sensors:	Illuminated directional PIR, 89H x 53W x 39D mm, weight 0.06kg; Illuminated 360o PIR sensor 106Ø x 36D mm, weight 0.11kg; Illuminated push buttons, 94H x 94W x 81D mm, weight 0.30kg. Bridge Wings IP68 reset, 150H x 150W x 100D mm, weight 1.5kg.
Tamper Protection:	Anti-tamper circuit for PIR's, reset push buttons, alarms.
Dormant Periods:	User selectable for each alarm stage in 1s increments.
Display:	2 lines, 16 character alphanumeric back-lit LCD.
LED Indicators:	4No. Green – “System Operating Modes”; Yellow – “System Power”. Red – “Tamper Alarm”; Red – “Fault Alarm”. 4No. Red – “Alarm Stage”, flashing for 15s, then continuous.
Audible Alarm:	85dB @ 1m 1000Hz with selectable tone.
Relay Outputs:	14No. SPCO NDE relays rated 1A @ 24V dc / 0.5A @ 110V ac.
Event Logging:	To 2Gb SD card recording 2000 alarm events in real time (optional).
Serial Comm's:	1No. RS485 output to VDR via NMEA0183 (IEC 61162-1) 1No. Auxiliary RS485 programmable channel.
Operating Voltage:	24V dc
Battery back-up:	Sealed Nickel Metal Hydride batteries providing ~ 6 hours quiescent backup.
Panel options:	Wall mount enclosure 250W x 280H x 130D mm, IP54. Console/flush mount option.
Fixing Detail:	4No. M8 screws (supplied)
Weight:	~4kg.
Cable glands:	M16 IP66 polyamide (supplied); cable “knock-outs” on enclosure.
Cable Type:	4-core 0.5mm ² (screened) marine.

To get a proposal or place an order:

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