

## BNWAS *le guardian* 2025

operating device LOD 210.24.0.0, 144x72mm



connecting module  
LCM 210.24.0.0

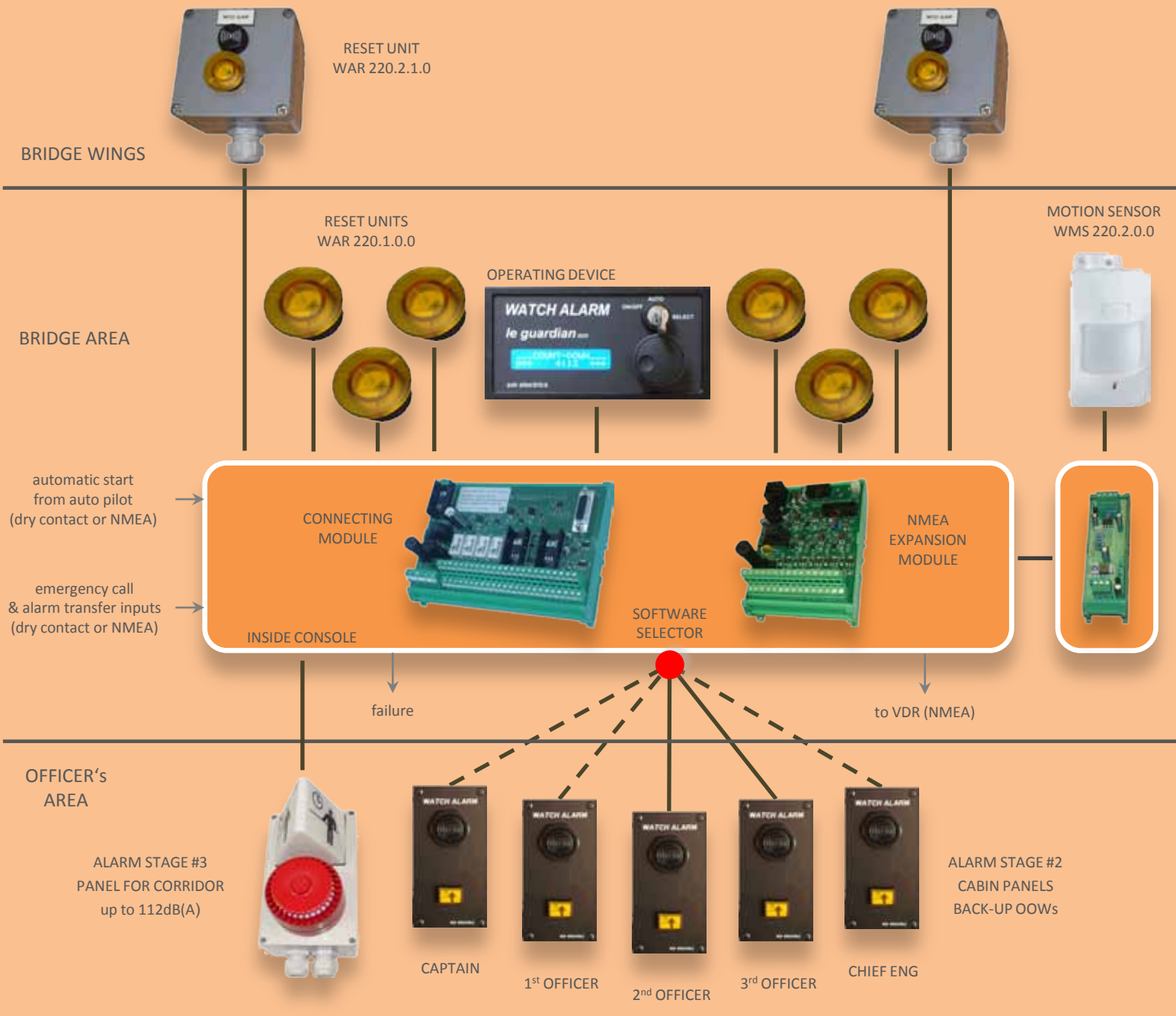


**designed  
for  
retrofit**

**over 5000  
installations**

- ✓ *easy and comfortable use*
- ✓ *simple connections to all peripheral equipment*
- ✓ *easy to install - vessel crew / shipyard personnel installed the vast bulk of systems*
- ✓ *intuitive system control - rotary encoder allows simple check of all connected devices and settings*
- ✓ *type approved (wheel marked) acc. to latest International Standard IEC 62616*
- ✓ *extensive BNWAS experience - first Type Approval awarded in 2005*

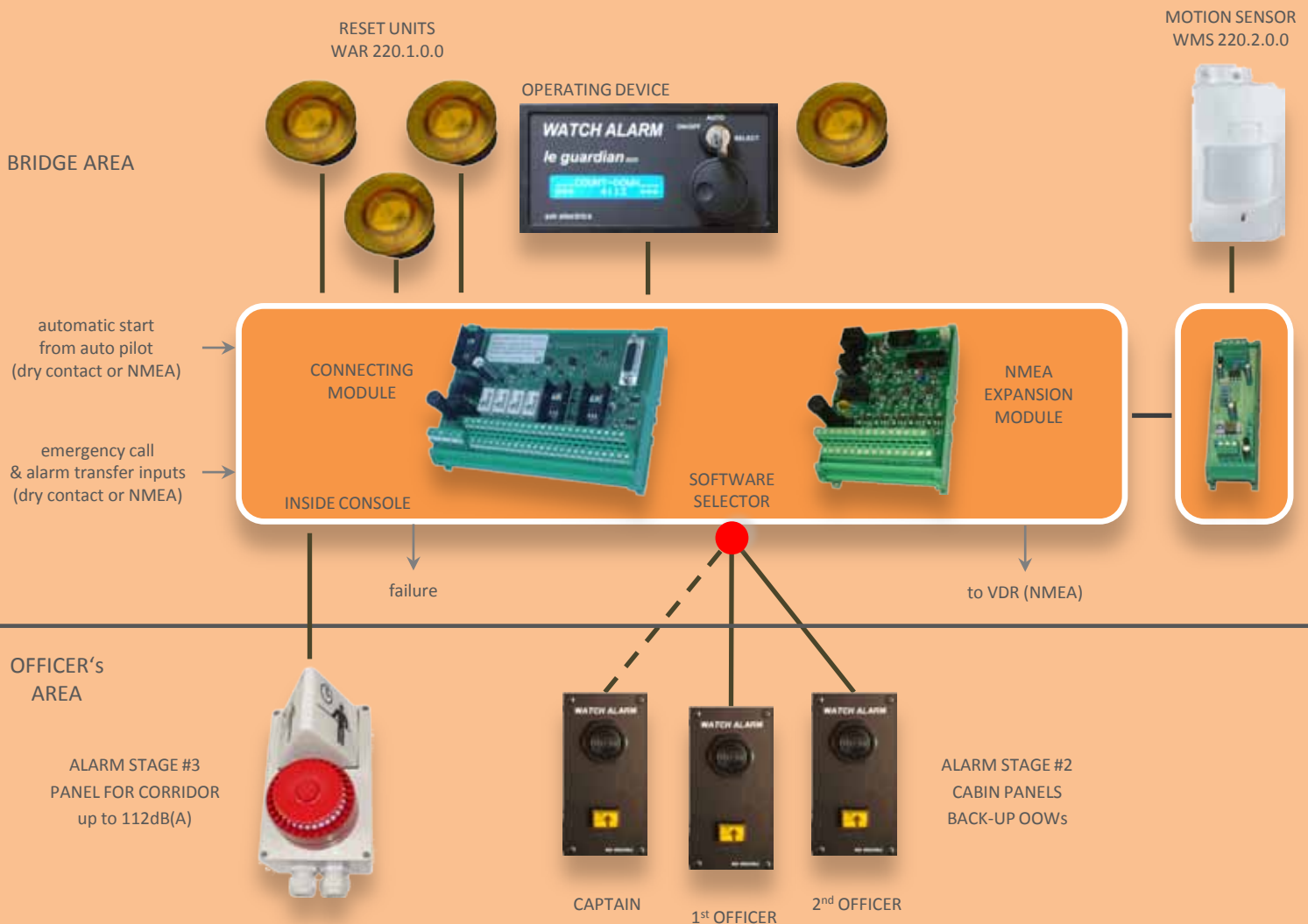
## BNWAS le guardian 2025 sample system for very large vessels



### SOFTWARE SELECTOR SWITCH FOR STAGE #2 ALARM

- Menu allows Master to select which back-up OOW cabin alarm is active. Individual selection of any 1 cabin or combination of any 1, 2, 3, 4, or 5 cabins is available

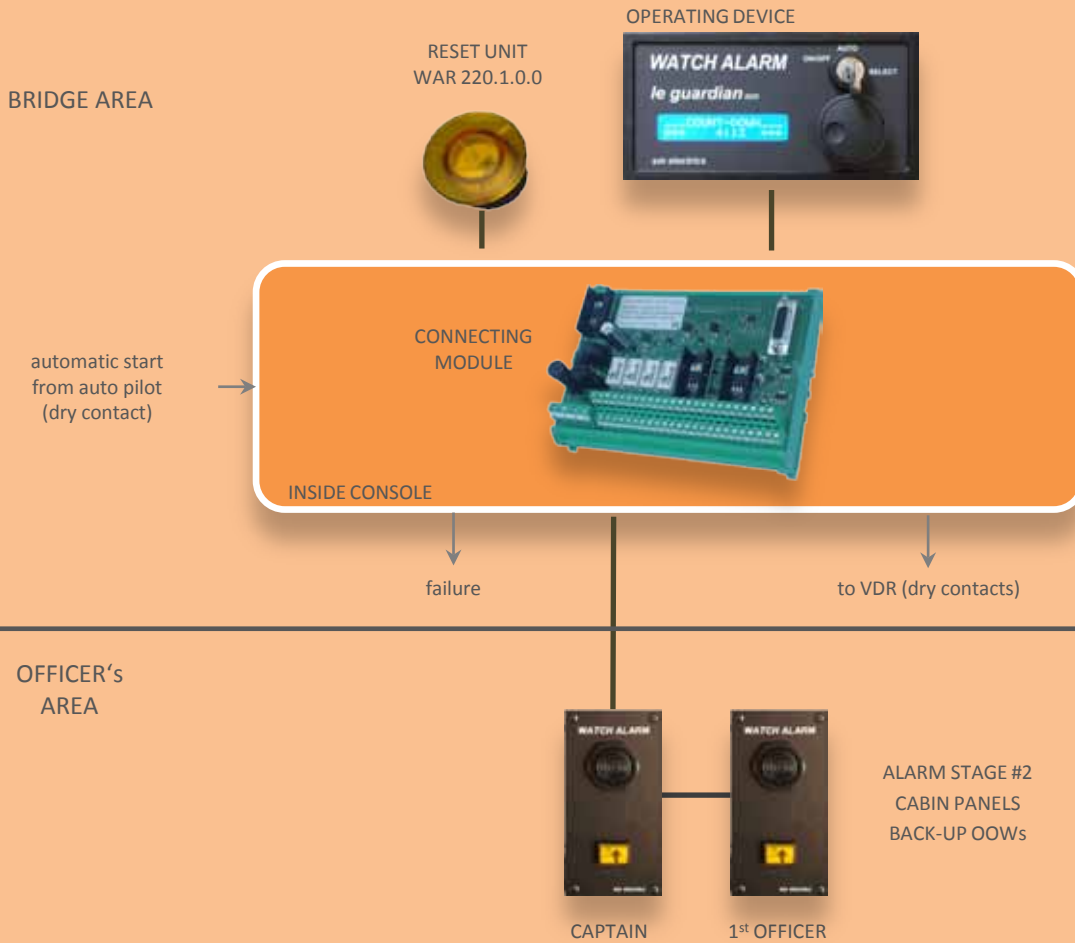
## BNWAS le guardian 2025 sample system for medium sized vessels



### NMEA INTERFACE

- According to NMEA protocol IEC 61162-1 system sends all relevant operating states to the VDR system
- System is able to receive external NMEA commands (reset, start / stop, em'cy call)

## BNWAS le guardian 2025 sample system for small sized vessels



### MSC 86 - legal background

A Bridge Navigational Watch Alarm System (BNWAS) has to be installed as follows:

- Ships of 150 gross tonnage and upwards and passenger ships irrespective of size constructed on or after 1<sup>st</sup> July 2011;
- Passenger ships irrespective of size constructed 1<sup>st</sup> July 2011, not later than first survey after 1<sup>st</sup> July 2011;
- Ships of 3,000 gross tonnage and upwards constructed before 1<sup>st</sup> July 2011, not later than the first survey after 1<sup>st</sup> July 2012;
- Ships of 500 gross tonnage and upwards but less than 3,000 gross tonnage constructed before 1<sup>st</sup> July 2011, not later than the first survey after 1<sup>st</sup> July 2013;
- Ships of 150 gross tonnage and upwards but less than 500 gross tonnage constructed before 1<sup>st</sup> July 2011, not later than the first survey after 1<sup>st</sup> July 2014;

## BNWAS *le guardian* 2025

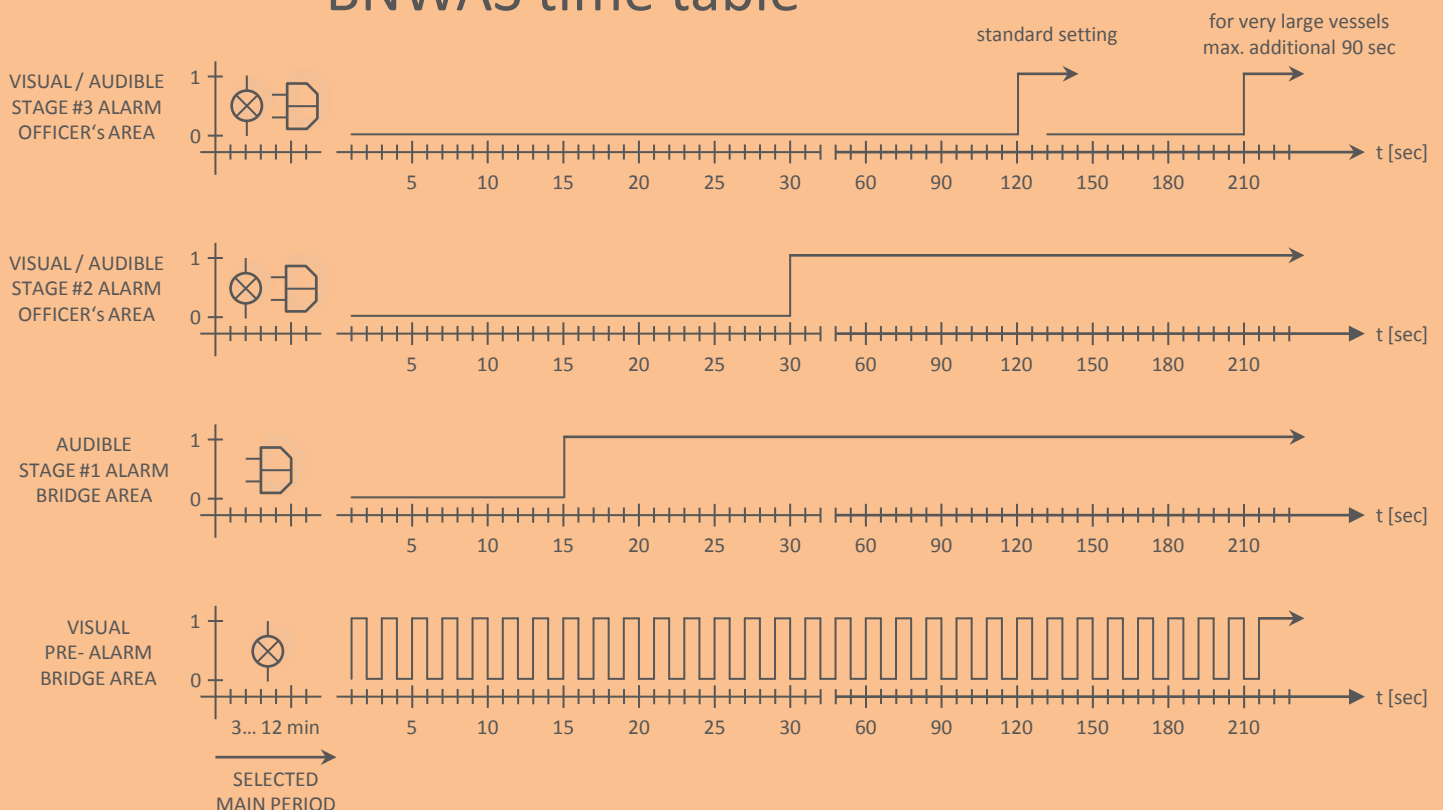
PIR motion sensor  
(12m, 90°)  
**WMS 220.2.0.0**



### PIR motion sensor for „automatic“ count-down reset

- supports OOW by generating count-down reset
- intelligent sensor / software detects movement in bridge area without interference from typical ship movements
- complete sensor kit includes sensor with patch cable, distribution box and electronic module
- parallel operation of up to four sensor kits is valid

### BNWAS time table



## periphery equipment



PIR motion sensor  
w. electronic module  
(12m, 90°)  
**WMS 220.2.0.0**



reset push button  
pre-alarm indication  
bridge area  
**WAR 220.1.0.0**



reset unit in wall box  
pre-alarm indication  
bridge & open bridge wings  
**WAR 220.2.0.0**



reset unit w. buzzer  
pre-alarm & alarm stage #1  
open bridge wings  
**WAR 220.2.1.0**



extension sounder  
alarm stage #1  
bridge area  
**WAB 220.2.0.0**



alarm stage #2 panel  
flush mounted  
officer's cabin  
**WAP 220.2.0.0**



alarm stage #2 panel  
bulkhead mounted  
officer's cabin  
**WAP 220.5.0.0**



alarm stage #3 panel  
flush or bulkhead mounted  
officer's public area, corridor  
**WAP 220.4.0.0**



NMEA expansion module for VDR link  
incl. selector for back-up OOW cabins  
alarm transfer & emergency call  
**NMEA 210.24.0.0**



wall box to cover  
1x LCM connecting module  
1x NMEA expansion module  
2x motion sensor module  
**WBC 210.1.0.0**



desk / wall / ceiling swivel bracket  
for operating device  
**WBC 210.1.0.0**

### TECHNICAL DATA & FEATURES

- key-switch for lock / unlock
- 2 x 16 character blue light display shows all relevant device and alarm states
- rotary encoder with integrated push button - simple and effective for user
- centralized dimmer control function - allows adjustment of display and all reset units
- integrated buzzer, eight individual sound characteristics & volume adjustment
- system voltage: 24VDC nominal (18... 31,2V)
- connecting module designed for TS 35 terminal rail
- emergency call facility (manual release & alarm transfer)
- NMEA bi-directional serial interface (e.g. for VDR link)
- complies to IEC 62616
- MED type approved (wheel marked)  
certificate no.: GL 47015 - 12 HH