

BNWAS

HLD-BNwas 600



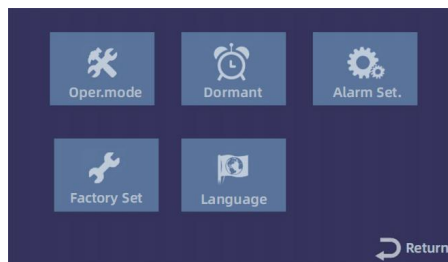
BRIDGE NAVIGATIONAL WATCH ALARM SYSTEM

The Bridge Navigational Watch Alarm System (BNWAS) is designed to monitor bridge activity and avoid maritime accidents. The system monitors the alertness of the Officer of the Watch (OOW); should the OOW become unable to perform his duties for any reason, it will automatically alert the master or another competent OOW.

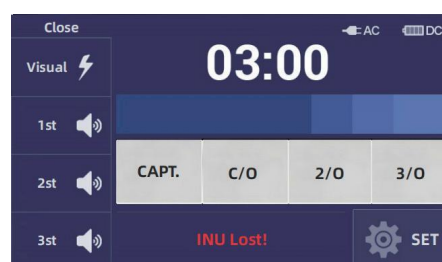
The HLD-BNwas 600 is Highlander's second-generation bridge navigational watch alarm system. It fully complies with IMO regulations and classification society rules, and can be installed on all types of vessels.

Attributes and Features

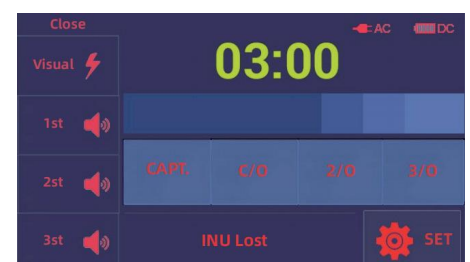
- 800 × 480 high-resolution colour touch-screen, supporting both touch-screen and physical-button dual-mode operation for an enhanced human-machine interaction experience.
- Simple and clean operation interface; convenient switching between day and night display modes, suitable for night-voyage requirements.
- Revolving warning light provides better visual indication.
- Reset unit integrates visual and audible alarm functions.
- High-sensitivity motion detection sensor.
- Unique two-stage alarm design, supporting individual call and simultaneous call.
- Optional battery unit.
- External device signal input in IEC 61162 format or dry-contact form.



MENU



DAY MODE



NIGHT MODE

Technical Specifications

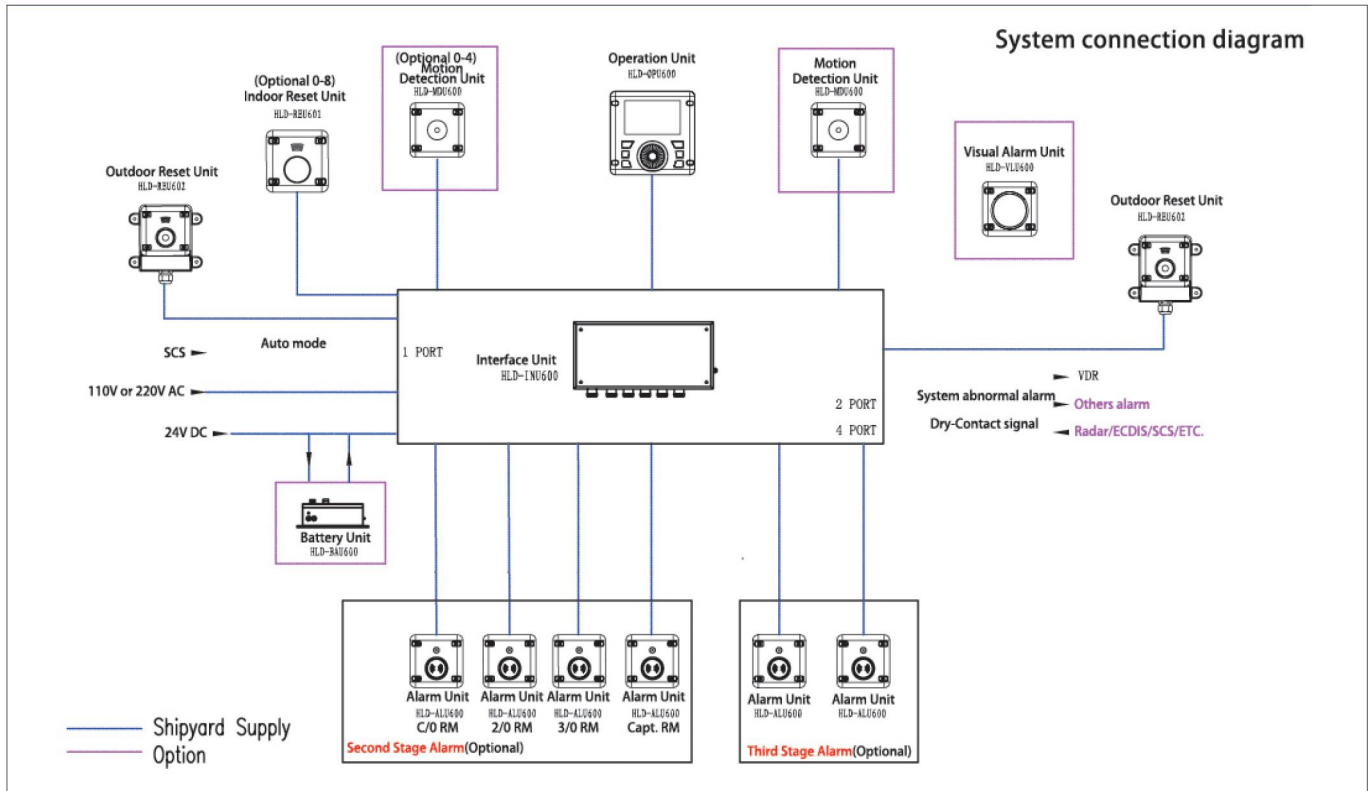
- Performance: MSC.128(75); IEC 62616-2010, etc.
- EMC/EMI Standard: IEC 60945 ed.4.0:2002
- Power Supply: Main supply AC 110/220 V, 50 Hz and emergency supply DC 24 V, dual-input automatic switching; power consumption < 30 W
- Inputs: Autopilot, GPS, Radar, ECDIS (digital signal or contact signal)
- Output: VDR (digital signal); other alarm system (alarm signal and/or system failure alarm)
- Reset Interval: 3–12 min adjustable

Functions

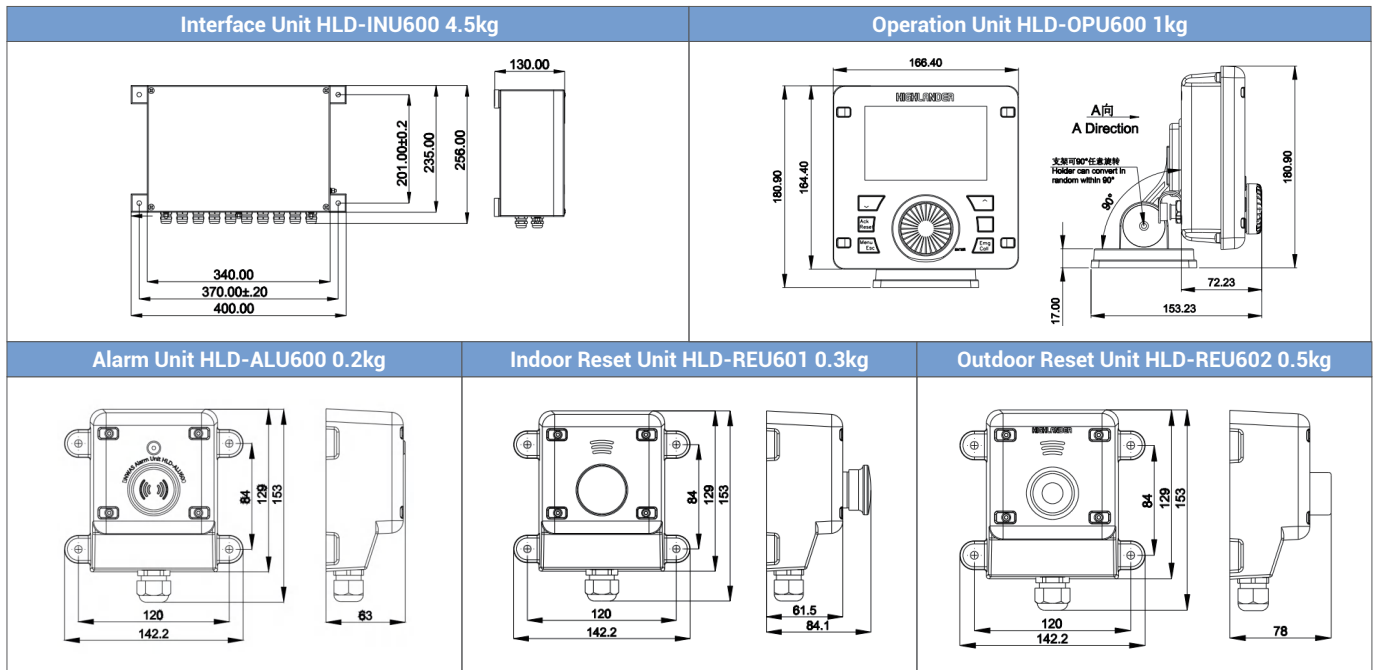
MODE	FUNCTION	DESCRIPTION
Operational Modes	On	BNWAS alarm sequence is activated and is not affected by the steering system.
	Off	BNWAS alarm sequence is stopped.
Alarm	Visual Indication	When the dormant period ends, BNWAS activates the visual alarm unit to provide a visual alarm, and simultaneously gives visual indication on the operation unit and reset unit(s), reminding the OOW to reset.
	First Stage Audible Alarm	If the OOW does not reset, 15 seconds after the visual indicator is activated, the 1st stage audible alarm is sounded on the bridge (alarm unit installed on the bridge), reminding the OOW to reset.
	Second Stage Remote Audible Alarm	If the OOW still does not reset, 15 seconds after the 1st stage audible alarm, the 2nd stage remote audible alarm is sounded in designated senior officers' cabins (alarm unit installed in the designated cabin), reminding the responsible officer to check the bridge.
	Third Stage Remote Audible Alarm	If the OOW still does not reset, 90 seconds after the 2nd stage remote audible alarm (90–180 s configurable), the 3rd stage audible alarm is sounded in public areas of the vessel (alarm unit installed in public areas), reminding any crew member who hears it to check the bridge.
	Emergency Calling	When the OOW encounters an emergency or other situation requiring assistance, pressing the EMERG. CALL key on the operation unit, or pressing and holding the reset unit button for more than 5 seconds, activates the 2nd stage alarm and subsequent 3rd stage alarm, calling crew in designated cabins and public areas to obtain assistance.
	Back-up Navigator Alarm	When BNWAS receives a back-up navigator alarm signal from other equipment, it immediately activates the 2nd stage alarm and subsequent 3rd stage alarm, calling crew in designated cabins and public areas to go to the bridge and check the situation.
Reset	Reset	By pressing the reset unit button, or through a reset signal from the motion sensor, or an external reset signal including dry-contact operation signals and NMEA serial sentences from external equipment, all alarms are cancelled and a new dormant period starts.
System Output	IEC 61162-1 ALR Sentence	Outputs operating status to VDR.
	System Failure Dry-Contact Output	Outputs to the central alarm system.

Configuration

Parts	Model	Dimensions/mm (L × W × H)	Weight/kg	Number	Installation	Note
Standard components						
Interface Unit	HLD-INU600	340x235x120	4.5	1	Bridge, Wall Mount	IP22
Operation Unit	HLD-OPU600	165 x165x40	1	1	Flush Mount/Desk Mount	IP22
Alarm Unit	HLD-ALU600	96 x96x60	0.2	5-18	Flush Mount/Wall Mount	IP22
Reset Unit	HLD-REU601	96 x96x60	0.3	1-2	Flush Mount/Wall Mount	IP22
Waterproof Reset Unit	HLD-REU602	153 x143x63	0.5	2-4	Wall Mount	IP56
Optional components						
Motion Detection Unit	HLD-MDU600	292x179x136	0.2	1-4	Flush Mount / Wall Mount	IP22
Visual Alarm Unit	HLD-VAU600	96 x96x140	0.4	1-2	Flush Mount / Wall Mount	IP22
Battery Unit	HLD-BAU600	340x235x120	10	1	Wall Mount	IP22



Dimensional Drawings



24 Hours
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