



TYPE APPROVAL CERTIFICATE
No. **ELE036712WS**

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Bridge Navigation Watch Alarm System
<i>Type</i>	BNWAS X4300
<i>Applicant</i>	JUMHO ELECTRIC (GUANGZHOU) CO., LTD NO.15, DAGUAN ZHONG ROAD, TIANHE, GUANGZHOU, CHINA
<i>Manufacturer</i>	JUMHO ELECTRIC (GUANGZHOU) CO., LTD
<i>Place of manufacture</i>	NO.15, DAGUAN ZHONG ROAD, TIANHE, GUANGZHOU, CHINA
<i>Reference standards</i>	IMO Res. MSC.128(75), IMO Res. A.694(17), IEC 62616(2010), IEC 60945(2002), IEC 61162(Ed.4.0, 2010), IEC 62288(Ed.1.0, 2008)

Issued in **SHANGHAI** on **July 30, 2012**. This Certificate is valid until **July 29, 2017**

RINA

Giuseppe Zagaria

This certificate consists of this page and 1 enclosure



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BNWAS X4300

1. Production Description:

The purpose of a bridge navigation watch alarm system (BNWAS) is to monitor bridge activity and detect operator disability which could lead to marine accidents.

Main Components:

- | | |
|----------------------------|--------|
| ● Monitor and Display Unit | X4300M |
| ● Main Control Box | X4300C |
| ● Reset Alarm Panel | RAP |
| ● Watch Alarm Panel | WAP |
| ● Motion Reset Unit | MOT |
| ● Junction Unit | JB04 |

2. Reference Documents:

- X4300 System and External Wiring Diagram(RINA Approved Drawing No.: SHEL-2330~2335).
- X4300 Bridge Navigation Watch Alarm System(BNWAS) User Manual, Doc. No. OP.218.100.40, Version 4.0.
- Test Report No. WTS2011-1749-1 "Bridge Navigation Watch Alarm System(BNWAS)" issued on 01, June, 2011.
- Test Report No. WTS2011-1749-2 "Bridge Navigation Watch Alarm System(BNWAS)" issued on 01, June, 2011.
- Test Report No. BNWAS11001~11002 issued on 28, May, 2011.
- Test Report No. BNWAS12160 issued on 03, July, 2012.
- Test Report No. WTS2012-2712/WTS2012-2712Z "X4300 Bridge Navigation Watch Alarm System(BNWAS)" issued on 19, June, 2012.
- Test Report No. A11-055-ZC "Bridge Navigation Watch Alarm System(BNWAS)" issued on 27, May, 2011.

3. Notes/Remarks:

- Evidence of the software version used is to be given (Software version used referenced _ in the FAT).
- The system is to be used according to the instructions given by the manufacturer and the performed RINA drawing approval for the relevant vessel .
- X4300 to be installed at least 1.35 meters from standard and steering compass.

SHANGHAI July 30, 2012



A handwritten signature in blue ink, appearing to be 'G.H.', is written below the RINA logo.