UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

CERTIFICATE OF TYPE APPROVAL

Applicant:-
GlobalView Systems Ltd
Ino-Plaz Building
Reservoir Road
Hull, HU6 7QD
United Kingdom

Manufacturer:-
GlobalView Systems Ltd
Ino-Plaz Building
Reservoir Road
Hull, HU6 7QD
United Kingdom

This is to certify that the applicant has submitted details of a:-

Marine Bridge Navigational Watch Alarm System (BNWAS)
(Marine Equipment Directive - Commission Directive 2010/68/EU – Item A.2/4.32)

Of system type known and designated as:-

Net-Logic WatchKeeper : BNWAS
(Comprising component parts and having technical characteristics shown in shedule 1)

and that this has been tested and assessed, and when used in a combination of component parts as described in the attached schedules, is CERTIFIED as complying with appropriate parts of:

IEC 62616 : 2010 "Bridge Navigational Watch Alarm Sysytem (BNWAS)"
IEC 60945 : 2002, "General Requirements for Marine Navigation Equipment" (Inc. Crrg'dm1:2008)
IEC 62288 : 2008 "Presentation of navigation-related information on shipborne navigational displays"

(being specifications for technical characteristics and methods of measurements, published by the International Electrotechnical Commission).

It is also RECOGNISED that the equipment conforms to performance standards not inferior to those adopted by the International Maritime Organisation, and which are contained in Resolution MSC.128(75), Resolution MSC.191(79) and the relevant parts of Resolution A694(17).

SIGNED: 

DATE of ISSUE: ***30th September 2011***

DATE of EXPIRY : ***1st September 2016***

R A Sharp **Authorised Signatory**

Certificate Number: ***QQ-TAN-03/11-01R2***

This Certificate is Valid until expiry date shown, subject to the standard conditions of issue printed on the attached schedule

Maritime and Coastguard Agency
The MCA is an Executive Agency of the Department for Transport.

QinetiQ
Cody Technology Park
Ively Road, Farnborough
Hampshire. GU14 0LX

QinetiQ Ltd is specified as a "person" under the terms of The Merchant Shipping (Delegation of Equipment Approval) Regulations 1996, and this certificate is issued under the authority given in Merchant Shipping Notice No MSN 1735.

This Page Blank

Certificate of Type Approval - Schedule 1
Net-Logic, WatchKeeper : BNWAS

The applicant declared that the following units comprise the BNWAS equipment of the designation given on page 1. These units in a typical configuration have been assessed & tested, and satisfactory details of these units were included in the technical file.

MAIN SYSTEM*1 Comprising:-			
	Alarm Interface Unit (AIU)	**WK-AIU-485**	
	Master Control Unit (MCU)	**WK-MCU-485**	***2**
	Manual Reset module	**WK-RST-01-485**	***3**
	Bridge Wing Reset module	**WK-BW_RST-485**	***3**
	Officers Area /Crew Quarters Alarms	**WK-AL-02-485**	***4**
OPTIONAL UNIT:-	PIR Module (Motion Sensor) (Wired or RF Link)	**WK-PIR-485 or WK-PIR-0A**	***5**
	Manual Reset module (RF Link)	**WK-RST-01A**	***3, 5**
	Bridge Wing Reset module (RF Link)	**WK-BW_RST-A**	***3, 5**
	Officers Area /Crew Quarters Alarms (RF Link)	**WK-AL-02A**	***4, 5**
	RF Repeater Module	**WK-PEX-0A**	***5**
SOFTWARE:-	Alarm Interface software (Firmware)	**Version 1.2**	***6**
	Master Control Unit Firmware	**Version 1.1**	***6**
	Reset/PIR/ Unit Firmware	**Version 1.0**	***6**

*NOTES:-

1 This equipment is a Bridge Navigational Watch Alarm System using the component parts listed above and capable of versatile configuration to suit a ships operating plan in respect of IMO Resolution MSC.128(75). All items have been tested and are recognised as compliant with the relevant requirements of IEC 60945: 2002.

2 **MCU Touchscreen also acts as a reset button and a 'press & hold for 5 seconds' function can initiate an Emergency Call.**

3 **Up to 9 Reset Buttons can be connected to suit the number of stations selected on the Bridge for reset points.**

4 **Up to 4 Audible alarm Units can be installed in the Officers' quarters for the second stage Alert and up to a further 9 Audible alarm units can be installed in the Crew quarters/public areas for the third stage Alert.**

5 **Optional 2.4GHz RF linked modules may be substituted for RS-485 wired modules to form a mixed system. The exact number and nature of units used to be in accordance with the ships operating plan agreed with the Flag administration.**

6 **Software Modification: This approval is valid for equipment including subsequent software versions only where written details of such versions have been submitted to and accepted by QinetiQ.**

Production Facility:- Microtech Electronics Ltd
Lancaster Road, Cressex Business Park
High Wycombe, Bucks, HP12 3QA

Technical Characteristics

Security	**4 digit Passwords**	Operational modes & time settings can only be changed after input of appropriate Password
Dormant Period (Td)	**Default period 3 minutes**	Can be preset up to 12 minute in 1 min steps
First Stage Indication	**Active from end of Td.**	All Reset Buttons flash with blue illumination. Visual alarm also flashes on MCU screen
First Stage Alarm	**At Td + 15 second**	Audio sounder inside Master Control Unit
Second Stage Alarm	**Fixed delay 15 seconds. At Td + 30 second**	Master/Officer Cabin alarm units can be individually addressed to suit watch rota.
Third Stage Alarm	**Default delay 90seconds**	Crew/Public area alarm units Delay extendable in 9 steps up to 180 seconds
Audio alarm sounders	**MCU - 77.8dB(A) at 1 m. AL 88.1dB(A) at 1 m.**	Alarms can be adjusted between 6 tone/pattern sounds on commissioning. Average test values shown
IEC 61162-1 SERIAL (NMEA) PORTS	**Listener - 1 Talker - 1**	Conformity to IEC 61162-1:2000. Also has contact closure alarm outputs
TEMPERATURE RANGE Protected & IEC 60945 CLASS Exposed	**-15°C to +55°C. -25°C to +55°C**	-- All other units -- Bridge wing Reset unit
POWER SOURCEs AIU RF Modules	**24V Ships DC main 24V DC Reserve supply 110V to 240V AC, 50Hz**	Needs 2nd 24V DC battery supply for operation >6 hrs if main DC power supply fails. Only RF Linked modules require local AC Power.

Conditions of Issue of this certificate are printed on page 4.

QinetiQ
Cody Technology Park
Ively Road, Farnborough
Hampshire. GU14 0LX

Certificate Number ***QQ-TAN-03/11-01R2***

Certificates of Type Approval
Conditions of Issue

1. Each Certificate will be used in its entirety and not reproduced in part.

2. This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested.

3 This certificate remains valid for a period of 5 years unless cancelled or revoked, provided any conditions contained in the schedule are complied with and the equipment remains satisfactory in service.

4. The approval status conferred by each certificate will apply only to the aspects of the equipment's performance defined by, and tested to, the specifications printed on that certificate.

5. Each unit of apparatus forming part of an equipment will have prominently marked on it the description given to it in the Certificate.

6. Each unit of an equipment will be marked with the minimum safe distance at which it should be mounted from a standard magnetic compass.

7. No unit of apparatus shall be advertised or labelled as "approved" or "certified" on behalf of the Maritime and Coastguard Agency (MCA), Department of Transport, DERA or QinetiQ in any sense other than that it is a type that has been assessed as satisfactory against the specification;

The manufacturer must advise QinetiQ of any future changes to the design or production of the equipment which might affect the equipment performance.
For minor modifications to the equipment, factory test results provided to QinetiQ by the manufacturer can be considered on a case-by-case basis. These test results will be reviewed by the QinetiQ, in consultation with the test facility which conducted the original Type Approval tests on the equipment.
QinetiQ will advise the manufacturer if there is a need for further testing.
If an equipment manufacturer wishes to have the type approved equipment designated under alternative names (e.g. agent/distributor's name and model number), a separate application should be completed and sent to QinetiQ.

QinetiQ Ltd
Marine Approval and Testing Service
Cody Technology Park, Room 1005/A5
Ively Road, Farnborough
Hants, GU14 0LX
United Kingdom