TERASAKI

SYSTEM HEALTHY

Navigation Light Control

MODE SELECTION

SAILING	TOWING	TOWING >200m
NUC	RAM	ANCHOR
	REVERSE SAILING	

MODE LIGHTS   SELECT LIGHTS

TERASAKI

Navigation Light Control

Navigation Light Control

Features

The Mega-Guard Navigation Light Control (NLC) controls up to 48 navigation lamps. The system has two outputs for each navigation lamp: a Main lamp output and a Spare lamp output. Each navigation lamp has its own on/off button. A number of navigation lamps can be grouped together (e.g. free sailing, towing) for simultaneous on/off control.

The Mega-Guard NLC supports the following lamp types:

▸ LED; 19~32VDC; Max. 60W
▸ Bulb; 19~32VDC; Max. 60W

The Spare lamp is automatically activated in case of failure of the Main lamp. The Mega-Guard NLC is powered by two 19~32VDC power supplies: one main supply and one back-up supply and switches automatically to the back-up supply in case of failure of the main supply.

NLC Operator Panel

Mega-Guard NLC Operator Panel	
Touchscreen	5.7"
Pushbuttons	6
Front	metal or glass
Microprocessor	ARM
Ethernet ports	4
NLC Controller support	up to 4

Mega-Guard NLC Controller	
Main lamp outputs	12 (max. 60W)
Spare lamp outputs	12 (max. 60W)
Power supply	24VDC (-25% ~+30%) main and back-up

NLC environmental and approvals	
Ambient temperature	-25 ~ 70°C
IMO approval	✓
Class approval	LRS,DNV-GL, ABS RINA, BV, RMRS, CCS, NKK, PRS, KR

System lay-out and operation

The Mega-Guard NLC consists of the following items:

▸ **NLC Operator Panel** for flush panel mounting in bridge console
▸ **NLC Controller** for din-rail mounting inside bridge console
▸ **I/O Cable** connecting the NLC Operator Panel with NLC Controller

The NLC Operator Panel is operated through a user friendly 5,7" touchscreen for intuitive operation and monitoring. This Operator Panel is available in two different versions, a panel with a metal front for commercial and navy ships and a panel with glass front for mega yachts.

The NLC Controller is DIN rail mounted inside bridge console and the navigation lamps and power supplies are directly connected to this Controller. In addition, the NLC Controller is equipped with manual on/off switches for Main and Spare lamps. The NLC Controller should be mounted in such a way that it can be reached without using tools in order to fulfill class requirements.

The I/O Cable with length of 3 or 5 meter, inter-connects the NLC Operator Panel with the NLC Controller.

NLC Operator Panel functions

▸ Touch buttons for group lamp control (under way, NUC, RAM, anchor etc.)
▸ Touch buttons for individual lamp control
▸ Mimic page of vessel and navigation mast displayed on touchscreen
▸ Ack button for acknowledging alarms
▸ Stop Horn button for deactivating the external horn and the internal buzzer
▸ System on and fault indication
▸ Main and back-up supply indication
▸ Touch buttons used for dimming and entering installation mode
▸ USB port to load configuration from memory stick
▸ Redundant Ethernet port to connect to other Mega-Guard Operator Panels
▸ I/O Bus connector to connect to I/O Cable
▸ Supports up to 48 lamps with 4x NLC Controller

NLC Controller

NLC Controller functions

▸ 12 pcs navigation lamp Main output
▸ 12 pcs navigation lamp Spare output
▸ 24 pcs switch manual override: Main lamp On/Off, Spare lamp On/Off
▸ Main power supply input: 19~32VDC
▸ Back-up power supply input: 19~32VDC
▸ Power supply output: 19~32VDC connected to the NLC Operator Panel
▸ I/O Bus connector to connect to I/O Cable

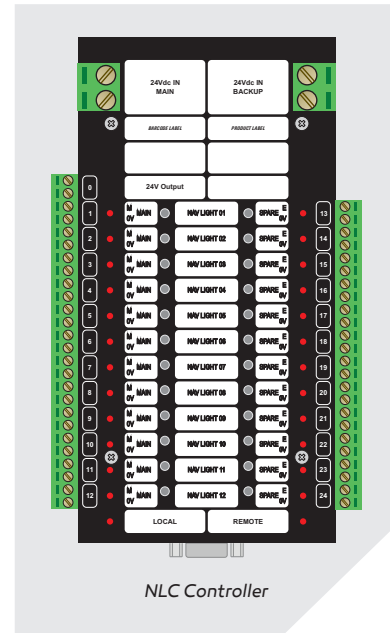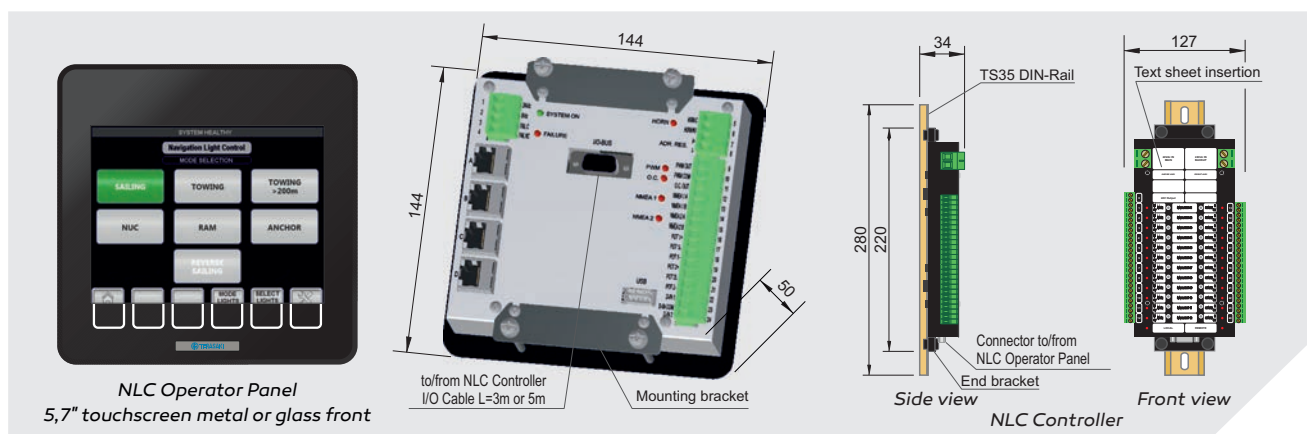# IMO Colreg 72

The Mega-Guard NLC is compliant with IMO Colreg 72 and supports the following vessels:

▸ 12-20 meter length
▸ 20-50 meter length
▸ More than 50 meter length

▸ Towing and pushing
▸ Double ended ferries
▸ Fishing vessels
▸ Dredging and underwater works

LED navigation lights

Lamps are supported with different visibility (2NM, 3NM, 5NM and 6NM) in accordance with Colreg 72 legislation.

Mounting & dimensions

NLC Operator Panel
5,7" touchscreen metal or glass front

to/from NLC Controller
I/O Cable L=3m or 5m
Mounting bracket

144
144
50

34
TS35 DIN-Rail
280
220
Connector to/from
NLC Operator Panel
End bracket
Side view

127
Text sheet insertion
Front view

NLC Controller

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Vessel Management System	Power Management System	BNWAS Watch Alarm System	Navigation Light Control
Wiper Control System	Fire Alarm System	Ship Performance Monitor	Fleet Management System

Ship automation

Terasaki Electric Co., (Far East) Pte Ltd
17, Tuas Street, Singapore 638454
Phone (+65) 65611165, Fax (+65) 65612166, Email tefe@terasaki.com.sg, Web www.terasaki.com.sg

Terasaki Electric Group China Sales Main Office
Room No.1405-06, Tomson Commercial Building, 710, Dong Fang Road, Pudong, Shanghai, China 200122
Phone (+86) 21 58201611 , Fax (+86) 21 58201621, Email terasaki@vip.163.com

Terasaki Electric Co., (Shanghai) Co Ltd
Building 5&7, No.399 Xuanzhong rd. Nanhui Industrial Zone, Shanghai, China 201314
Phone (+86) 21 58186340, Fax (+86) 21 58186350, Email tsc@terasaki.com.cn, Web www.terasaki.com.cn

Terasaki Electric (China) Ltd
72, Pacific Industrial Park, Xintang, Zengcheng, Guangzhou , China 511340
Phone (+86) 20 82708556, Fax (+86) 20 82708586, Email Terasaki-tcssales@vip.163.com, Web www.terasaki.cn