eGlobe G2

The first smart ECDIS



Specification version 2.0.0.x (revision 5)	
Product	Electronic Chart Display and Information System (ECDIS)
Name/Type Designation	eGlobe G2
Compliance	• (EU) 2017/306, item No. MED/4.30. SOLAS 74 as amended, Regulations V/18, V/19 & X/3, IMO Res. A.694(17), IMO Res. MSC.36(63), IMO Res. MSC.97(73), IMO Res. MSC.191(79), IMO Res. MSC.232(82), IMO Res. MSC.302(87), IMO SN.1/Circ.266 • IEC 61174 Ed. 4.0 (2015) • IEC 60945 Ed. 4.0 (2002) incl. Corr.1 (2008) • IEC 61162-1 Ed. 4.0 (2010) and ed. 5.0 (2016), IEC 61162-2 Ed. 1.0 (1998) • IEC 61162-450 (2014) – VDR output ONLY • IEC 62288 Ed. 2.0 (2014) • IHO S-52 edition 6.1.1 (IHO ECDIS Presentation Library 4.0.x)
Approvals	• EU MEDB00000H9 rev 3 by DNV-GL valid until 2022-07-03 • EU MEDD000004J rev 3 by DNV-GL valid until 2022-04-06
Functional Description	
Own ship position, heading and speed integration	• EPFS (GPS) x 2 • EchoReference (up to 4 targets processing) • Dead Reckoning • Visual LOP and ARPA LOP transfer • Gyrocompass (up to 2) • Speed Log
Traffic information	• Target Data from AIS, • Target Data from Radar/ARPA (Up to 2) • AIS and ARPA Target association • Radar Overlay (Optional, ASTERIX CAT-240 input)

Other sensor data integration	• Depth display • Time/Date • NAVTEX interface • BNWAS interface • BAMS interface • VDR (61162-450)		
Display Modes	• North Up • Head Up • Selectable Split screen	• True Motion • Relative Motion	
Chart Data	• S57 ed 3.1 • S63 ed 1.2 (UKHO AVCS, Primar, IC-ENC and other IHO approved Data Servers) • ACES (ChartWorld SENC distribution – approved ENC service for SOLAS vessels) • AIO • ARCS (UKHO Raster Charts)		
Chart Maintenance	• ENC Updating by media • Automatic ENC Updating from ChartWorld FTP for ACES and AVCS licenses (it is also possible for Primar, IC-ENC and other IHO approved Data Servers) • Automated ENC Updates via ship's E-mail • Connection via the 3G modem or ship's communication system possible.		
Configurations	• Standalone ECDIS • Double ECDIS with automatic takeover of all monitoring functions • Additional Planning station		

Interfaces			**Power Supply**	
Serial I/O		8 ports, IEC61162-1/2 Com extension 4 ports, IEC61162-1/2	Panel PC (main unit)	100-115/220-230VAC - 50/60Hz And / Or 24VDC with automatic takeover in case of either source failure.
VDR	Ethernet LAN	IEC61162-450 Output to VRD System		125W (max) - 50W (average)
	DVI-I	1980 x 1080 @ 60 Hz resolution only	Sensor connection Units and Switch	24VDC
	VGA	1980 x 1080 @ 60 Hz resolution only		Up to 30 W

Environmental		
Operating	Temperature	-15 deg. C to +55 deg. C
	Humidity	up to 95%
Storage	Temperature	-20 deg. C to +60 deg. C
	Humidity	up to 95%
IP-Rating		Protection: IP66 front - IP22 rear and peripheral equipment (EN60529)
Compass Safe Distance		Standard: 115cm - Steering: 70cm

System Components			
Unit	Description	Model name	Comment
Panel PC	Computer with integrated display unit and embedded graphical processor	HD 24T21 CEC-MTD-PNB2 or HD 24T21 CEC-MTI-PNBB or HD 24T21 CEC-MTD-ANB2 or HD 24T21 CEC-MTI-ANBB	With touch Without touch
	USB and LAN interfaces	Integrated on computer motherboard	LAN: 2 x RJ 45 USB*: 4 x USB 2.0
	NMEA interface unit	PCA100293-1	4xRS485/RS422 ports
Options			
Keyboard	Standard keyboard with trackball	G84-5400	
	Premium keyboard with trackball	KSML92Y	
Trackball	eGlobe NSI trackball	TSX50YZ	
Sensor connection units	NMEA interface unit	eGlobe SIU-1	1x RS485/RS422 input 4x RS485/RS422 outputs
	External NMEA Com module	HT 00262 OPT-A1	4x RS 485/RS 422 ports
Network Switch	Ethernet switch	EDS-408A-MM-SC-T or EDS-408A-T	

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