

EC CERTIFICATE TYPE EXAMINATION (MODULE B)

This is to certify that:

DNV GL SE, a Notified Body under the terms of the Marine Equipment Directive 96/98/EC of 20 December 1996, notified by the German Federal Ministry of Transport, Building and Urban Development, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 96/98/EC as amended, subject to any conditions in the schedule attached hereto.

Certificate No.	59 661 - 12 HH
Applicant	Raytheon Anschütz GmbH Zeyestraße 16-24 24106 Kiel, GERMANY
Manufacturer	Raytheon Anschütz GmbH Zeyestraße 16-24 24106 Kiel, GERMANY
Product Description	Electronic Chart Display and Information System (ECDIS)
Product Name	ECDIS 24
Trade Name	ECDIS 24
Specified Standards	IMO Resolutions: A.694(17), A.817(19), MSC.36(63), MSC.97(73)- (2000 HSC Code) 13, MSC.191(79), MSC.232(82), IMO_SN.1/Circ.266. IEC 60945 (2002) incl. Corr.1(2008), 61162-1 (Ed.4), 61174(Ed. 4.0), 62288 (Ed. 2.0)
Related Directive	2014/93/EU
Equipment Section	Navigation equipment
Annex A.1 Item No.	A.1/4.30
Date of Re-issue	2016-04-29
Expiry Date	2021-04-28

DNV GL SE

Notified Body No.: 0098



Chk-Kode
Christine Mydlak-Röder

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Schedule of Approval

Approval Documentation

Test report : 409160_1_emc_nomatronics_magicplex, 409160_2_suv_nomatronics_magicplex, 409160_3_klima_nomatronics_magicplex, 20113167200, test rapport TSY50YZ-XXXX-MCW, DOC101028-1_Conformance test report 24T21, HD 24T21 MMC-MJD-AAB2 Technical report 2011-3475 Maritime rev 1, Testreport ECDIS IHO S-64 3.0.1, SYNOPSIS Testreport IEC61174 Ed.4 ECDIS New-Teststandard,

Technical Data

ECDIS 24 comprises of the following equipment:

Product type: 950-040.NG001

Comprising of:

- 24" Panel-Computer
with Software:
 - Windows XP Operating System
 - NB46-001 (Bridge Integration Platform) E02.xx
 - NB48-001 (Synopsis Service Tool) E02.xx
 - NB44-14 (Synopsis ECDIS) Eo2.xx
- Data Interface Unit, Type MAGICPLEX 8GIC pro
- Trackball with USB, Type TSX50N8-OBT1-MC1
- External DVD/CD Drive, Type 950-040.XX

Optional:

UPS (230V), Type VL-SUA1000I (1500I), VL-SMT1000I (1500I),
UPS (230VAC) Type: VL-SC 4201

Documentation:

Operator Manual 4289_ECDIS 24,
Installation Manual 4203.DOC000302

Backup arrangements (ECDIS):

In order to continue ships navigation in the case of a primary system failure the following back up arrangements are allowed:

Installation of a secondary system Type: ECDIS 24

Or

Installation of a ECDIS system Type: SYNOPSIS ECDIS

with its own independent connection to a position sensor (EPFS) and connected to the primary ECDIS system type ECDIS 24 via local system area network connection (Ethernet LAN) for exchange of route data.

Note:

IMO SN.1/Circ.MSC.1/Circ.1503: ECDIS that is not updated for the latest version of IHO standards may not meet the chart carriage requirements as set out in SOLAS regulation V/19.2.1.4.

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Additionally applied Directive:
COMMISSION DIRECTIVE (EU) 2015/559 of 9 April 2015 amending Council Directive 96/98/EC on marine equipment

Limitations on the acceptance or use of the product

None

Notes:

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE, as the Notified Body, of any modifications or changes to the approved equipment. Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body.