SLOVENSKI STANDARD
oSIST prEN IEC 61174:2026

01-november-2026

Pomorska navigacijska in radiokomunikacijska oprema in sistemi - Prikazovalnik elektronskih kart in informacijski sistem (ECDIS) - Zahteve za delovanje in lastnosti, preskusne metode in zahtevani rezultati preskušanja

Maritime navigation and radiocommunication equipment and systems - Electronic chart display and information system (ECDIS) - Operational and performance requirements, methods of testing and required test results

Navigations- und Funkkommunikationsgeräte und -systeme für die Seeschifffahrt - Elektronisches Kartendarstellungs- und Informationssystem (ECDIS) - Betriebs- und Leistungsanforderungen, Prüfverfahren und geforderte Prüfergebnisse

Matériels et systèmes de navigation et de radiocommunication maritimes - Système de visualisation des cartes électroniques et d'information (ECDIS) - Exigences opérationnelles et de fonctionnement, méthodes d'essai et résultats d'essai exigés

Ta slovenski standard je istoveten z: **prEN IEC 61174:2026**

ICS:

47.020.70	Navigacijska in krmilna oprema	Navigation and control equipment

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80/1206/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER: **IEC 61174 ED5**	
DATE OF CIRCULATION: **2026-10-02**	CLOSING DATE FOR VOTING: **2026-12-25**
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IEC TC 80 : MARITIME NAVIGATION AND RADIOCOMMUNICATION EQUIPMENT AND SYSTEMS	
SECRETARIAT: United Kingdom	SECRETARY: Mr Kim Fisher
OF INTEREST TO THE FOLLOWING COMMITTEES:	HORIZONTAL FUNCTION(S):
ASPECTS CONCERNED:	
☒ SUBMITTED FOR CENELEC PARALLEL VOTING	☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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TITLE:

Maritime navigation and radiocommunication equipment and systems - Electronic chart display and information system (ECDIS) - Operational and performance requirements, methods of testing and required test results

PROPOSED STABILITY DATE: 2030

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MARITIME NAVIGATION AND RADIOCOMMUNICATION EQUIPMENT AND SYSTEMS –

Electronic chart display and information system (ECDIS) – Operational and performance requirements, methods of testing and required test results

FOREWORD

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International Standard IEC 61174 has been prepared by IEC technical committee 80: Maritime navigation and radiocommunication equipment and systems.

This fifth edition of IEC 61174 cancels and replaces the fourth edition published in 2015, of which it constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- Compliance with IMO revised Performance Standards for ECDIS, MSC.530(106)/Rev.1.
- Compliance with IMO revised Performance Standards for Presentation of navigational information, MSC.191(79) as amended by MSC.466(101), see IEC 62288.

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- Compliance with BAM moved from IEC 61924-2 to IEC 62923-1 and IEC 62923-2.
- Introduction of S-100 based critical framework including IHO S-98, IHO S-100, IHO S-122, S-123, S-127, S-128, S-131 and IHO S-164.
- Introduction of S-100 based product specifications for nautical charts and nautical publications. The IHO plan for the initial set for compliance includes IHO S-101, IHO S-102, IHO S-104, IHO S-111, IHO S-124 and IHO S-129.
- Functionality of the optional AIS interface aligned with IEC 62288.
- Revision of RTZ format, version 1.2, for transfer of route plans from PAS IEC 61174-1:2021.
- New format for transfer of route plans, IEC 63173-1 (S-421).
- Secure communication method, IEC 63173-2 SECOM, for bi-directional route plan transfer between ship and shore based maritime service providers.
- A new Clause 6 has been added for S-100 based data and a new Clause 7 for Other requirements,
- A new Annex V has been added for RTZ test files, a new Annex W has been added for the UML model of RTZ format, and a new Annex X for a comparison of RTZ schema versions.
- Existing Annex E for terminology and abbreviations has been deleted as this information is now in IEC 62288, existing Annex L for examples of update status reports has been deleted as this information is now in IHO publications, existing Annex M for elements of the chart database has been deleted as this information is now in IHO publications, existing Annex U for sentences used by SafetyNET has been deleted as these sentences are now in IEC 61162-1, and existing Annex V for extension of the TTD sentence has been deleted as this information is now in IEC 61162-1.

The text of this standard is based on the following documents:

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FDIS	Report on voting
80/761/FDIS	80/767/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

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MARITIME NAVIGATION AND RADIOCOMMUNICATION EQUIPMENT AND SYSTEMS –

Electronic chart display and information system (ECDIS) – Operational and performance requirements, test methods and required test results

1 Scope

This document specifies the performance requirements, test methods and required test results of equipment conforming to performance standards not inferior to those adopted by the IMO in resolution MSC.530(106)/Rev.1.

This document is based upon the performance standards of IMO resolution MSC.530(106)/Rev.1, and is also associated with IMO resolution A.694(17) and IEC 60945. Reference is made, where appropriate, to IMO resolutions MSC.191(79) and MSC.530(106)/Rev.1, and all subclauses whose wording is identical to that in the resolutions are printed in italics.

In association with the above IMO resolution MSC.530(106)/Rev.1, are the International Hydrographic Organization (IHO) publications[1] including S-52, S-52:100, S-57, S-63, S-64, S-64:100, S-98, S-100, S-101, S-128, S-164. This document has included extracts from the above publications where they are applicable to this equipment. Where reference is made, all subclauses whose wording is identical to that in the publications, are printed in italics.

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(530/A2.1) *These performance standards should apply to all ECDIS equipment carried on all ships as follows:*

– *dedicated standalone workstation;*

– *a multifunction workstation as part of an INS.*

(530/A2.2) These performance standards apply to ECDIS mode of operation, ECDIS in RCDS mode of operation as specified in Annex F *and ECDIS backup arrangements as specified in* Annex E*.*

(530/A2.3) Requirements for structure, format, encryption and *presentation of the ENDS are within the scope of relevant IHO standards, including those listed in* the normative references*.*

The requirements of this document are not intended to prevent the use of new techniques in equipment and systems, provided the facilities offered are not inferior to those stated.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

[1] IHO publications are available from https://www.iho.int, together with any supplementary information.

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