

TYPE APPROVAL CERTIFICATE

This is to certify:

That the **Bridge Monitor**

with type designation(s)
DuraVision MDU5501WT

Issued to

EIZO Corporation
Hakusan, Japan

is found to comply with

MSC.191(79) Performance standards for presentation of navigation-related information on shipborne navigational displays
IMO Res. A.694(17) General requirements for shipborne radio equipment forming part of the global maritime distress and safety system (GMDSS) and for electronic navigational aids
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Temperature	A
Humidity	B
Vibration	A
EMC	B
Enclosure	IP22(rear), IP65(front)

Issued at **Busan** on **2021-12-17**

This Certificate is valid until **2026-12-16**.

DNV local station: **Kobe**

for **DNV**

Approval Engineer: **Geun Young Park**

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Hanwee Low
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

The bridge monitor, DuraVision MDU5501WT, is 55 inch touch panel color LCD monitor intended for use on various applications including navigational application.

MDU5501WT-X-YY

is the model/variant designation with alphanumeric code where:

X: ECDIS indicator	E: Indicating or N: Non-indicating
YY: Customer ID	0-9 or A-Z or a-z or Blank

Application/Limitation

- DuraVision MDU5501WT shall be installed according to manufacturer's documentation.
- DuraVision MDU5501WT may be installed as ECDIS display. Then manufacturer provided color calibration table shall be installed, interfacing with DVI, HDMI and Display Port in accordance with the manufacturer's documentation.
- For ECDIS compliant installation display monitor control is to be interfaced with ECDIS computer and ECDIS color table to be installed as part of ECDIS SW (see manufacturers documentation).
- If DuraVision MDU5501WT is used in ECDIS or RADAR system, the monitor needs to be listed in the specific Radar/ECDIS Type Approval Certificate.

Type Approval documentation

DNVGL No.	Drawing No.	Rev.	Title
10	00N0N199A1	1	Setup Manual
18			Declaration of corrosion resistance
19	03V28418B1	2	User's manual (DuraVision MDU5501WT)
20	DPS-16-00171		Test Report IEC60945 Environmental tests
21	DPS-16-00172		Test Report IEC60945 EMC tests
22	DPS-16-00176		Test Report (IEC62288, IEC61174, IEC62388)
23	DPS-16-00177		Test Report (IEC60945 6.1, 6.2, 6.3, 6.4, 12.3)
28	LIC 12-21-050		Test Report (Compass Safe Distance)
29	CJ21-162467S-1		Test Report (IEC60529 IP2X, IP6X, IPX2, IPX5)
31	LIC 12-21-051		Test Report (Acoustic noise and signals)
32	LIC 12-21-049		Test Report (Conducted low frequency immunity)

Tests carried out

- Environmental testing: IEC 60945 (2002) incl. IEC 60945 Corr.1 (2008) for protected environment
- Performance testing: Relevant parts of IEC 62288 (2014, Ed.2.0)
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Relevant parts of IEC 61174 (2015, Ed.4.0)
- Applicable tests according to Class Guideline DNV-CG-0339 (Edition August 2021)

Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location. In addition, the equipment shall be marked with serial number, reference to Type Approval certificate, safe distance to magnetic compass, power consumption and/or supply voltage.

Periodical assessment

A retention survey is to be performed at least once a year, and upon renewal of this certificate. The scope of the periodical/renewal assessment is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society. This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com/>