



Certificate no.:
TAA00003HY

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Peripheral Equipment**

with type designation(s)
TIMX-UW series

issued to

Tetradyne Co., Ltd.
Seoul, Korea, Republic of

is found to comply with

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	A

Issued at **Busan** on **2025-01-15**

This Certificate is valid until **2030-01-14**.

for **DNV**

DNV local unit: **Seoul**

Approval Engineer: **Eun Jin Lee**

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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 USD 300 000.

Product description

Marine monitor, TIMX-UW series :

TIMX-UW286(28.6")
TIMX-UW370 (37")
TIMX-UW495 (49.5")
TIMX-UW584 (58.4")

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Compass safe distances :

- Standard compass safe distance : 140cm (150cm for TIMX-UW584)
- Steering compass safe distance : 90cm (85cm for TIMX-UW584)

Type Approval documentation

Tests carried out

Applicable tests according to Class guidance, DNV-CG-0339, August 2021.

Special purpose test of 'Acoustic noise and signals' and 'Compass safe distance' were carried out according to 11.1 and 11.2 of IEC 60945(2002).

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE