Certificate no.:
TAA00003MC

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Miscellaneous

with type designation(s)
BizGyro

issued to
BIZCLAP S.R.L.
TORINO, TO, Italy

is found to comply with
IEC 60945 Ed. 4 (2002-08) Maritime navigation and radiocommunication equipment and systems – General requirements – Methods of testing and required test results

Issued at **Hamburg** on **2026-03-19**
This Certificate is valid until **2031-03-18**.
DNV local unit: **Italy/Malta CMC**

for **DNV**

Approval Engineer: **Kai Möller**

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 “BizGyro” is a motion reference unit (MRU) with following specifications:

Interfaces:	2x Serial Input/output port (RS232), 1x Serial Input/output port (RS422), 1x Ethernet
Power supply [V]	6,5 - 36
IP protection class	68
Compass safe distance	≥5 m

Environmental category according to IEC 60945, Clause 4.4: Protected

See equipment manual(s) for further details.

Application/Limitation

- EUT is not for installation in wheelhouses and bridge wings.
- EUT is to be installed ≥5m away from a standard or a steering magnetic compass.
- The scope of the approval is limited to compliance to EMC and environmental requirements specified in IEC 60945.
  The performance of the BizGyro with regards to function as a gyro/ motion reference unit has not been assessed as a part of this approval.

Type Approval documentation

DNV No.	Document ID	Rev.	Description
15	V200220018368A	0 (2026-02-26)	Report: ENV-V200220018368A-000
13	-	1	Statement: Bizclap_ BizGyro IEC60945_Installation Limitation Statement_v1
12	-	5	Manual: Bizclap, BizGyro, User Manual
10	-	1 (2026-02-05)	Statement: Bizclap_ MRU_ 8.12 Corrosion Test-Report
9	259250F	2025-12-18	Report: Teslab, IEC 60945

Tests carried out

- Environmental and EMC testing: IEC 60945 (2002) incl. Corrigendum 1 (2008)

Marking of product

According to IEC 60945, Sect.4.9:

The product to be marked with following information, where practicable:

- Identification of the manufacturer,
- Equipment type number or model identification under which it was type tested,
- Serial number of the unit,
- Compass safe distance.

Alternatively, the marking may be presented on a display at equipment start-up, and in case of fixed equipment compass safe distance may be given in the equipment manual.

Periodical assessment

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