

TYPE APPROVAL CERTIFICATE

Certificate no.:
TAA00002VE
Revision No:
1

This is to certify:

that the **Security/ Surveillance Camera**

with type designation(s)
CCTV Network Dome Camera D100

issued to

WISKA Hoppmann GmbH
Kaltenkirchen, Germany

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	D
Humidity	B
Vibration	A
EMC	B
Enclosure	D

Issued at **Hamburg** on **2025-02-19**

This Certificate is valid until **2029-11-25**.

DNV local unit: **Hamburg – CMC North/East**

Approval Engineer: **Jens Dietrich**



for DNV

This document has been digitally signed and will therefore not have handwritten signature

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

D100/42212/IP/PTZ/P, D100/42212/IP/PTZ/P/0M:

- IP Outdoor camera, electronic pan/tilt, 12x optical zoom
- Vertical hanging type
- Housing material: PBT/Polycarbonat
- Degree of protection IP66/IP68(2m,30min)
- Power supply: POE

Application/Limitation

The Type Approval covers hardware listed under Product description based on Pt.4 Ch.9 Sec.5. 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.

Product certificate

If specified in the applicable DNV Rule set, the system in which the above listed hardware is used shall be delivered with a product certificate. For each such delivery the certification test is to be performed at the manufacturer of the application system before the system is shipped to the yard. The test shall be done according to an approved test program. After certification the clause for software control will be put into force.

Software control

All changes in software are to be recorded as long as the system is in use on board. Documentation of major changes is to be forwarded to DNV for evaluation and approval before implemented on board. Certification of modified functionality may be required for the particular vessel.

Approval conditions

1. The use for manoeuvring purposes requires additional concept approval by DNV.
2. System failure alarm routing to an external system is not available and needs to be evaluated for the respective application.
3. Equipment shall be mounted outside 5m surrounding area of the magnetic compass.

Type Approval documentation

EMC Report TÜV Nord, no. 19003-2-R01; WISKA Umwelt Prüfprotokoll PP20190628-01; paconsult Vibration Test Report, 19-11301, rev.1;

Drawings: D100/42212/IP/PZT/P/0M, dwg. No. PD-01-IP-023, Rev.02, 2019-05-20; D100/\$2212/PTZ/P/0M, dwg.no. WD-01-IP-044, Rev.00, 2029-03-06.

DNVGL Performance Test CCTV System, Performance_CCTV_21-06-2019.

Renewal 2025: Additional EMC Test Report TREO 469-24, issue 1, issued 2024-11-22,

TA Assessment Report, DNV Hamburg, dated 2024-11-25.

Tests carried out

Applicable tests according to DNV CG-0339, August 2021.
Functional Performance Test.

Marking of product

Maker, type designation, serial number.

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