



Certificate no.:
TAA00003F7

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Security/ Surveillance Camera**

with type designation(s)
WISKA CCTV System components CS-S(W)160, CH-S(W)160, WTC2520

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 & C
EMC	B
Enclosure	D (WTC2520 =C (IP66/67))

Issued at **Hamburg** on **2024-07-03**

This Certificate is valid until **2029-07-02**.

for **DNV**

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

Approval Engineer: **Torsten Dzillak**

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.



CCTV System components:

CH-S(W)160/4032H/FIX/*

- IP Outdoor camera, manual pan/tilt, 32x optical zoom
- Stainless steel housing with/without wash and wipe
- Color code=*
- Degree of protection: IP66/IP68
- Power supply 24V

CH-S(W)160/VC21065/FIX/*

- IP Outdoor camera, manual pan/tilt, 30x optical zoom
- Stainless steel housing with/without wash and wipe
- Color code=*
- Degree of protection: IP66/IP68
- Power supply 24V

CS-S(W)160/VC21065/PTZ/*

- IP Outdoor PTZ camera station, 30x optical zoom
- Stainless steel housing with/without wash and wipe
- Color code=*
- Degree of protection IP66/IP68
- Power supply: 230V, 50...60Hz

CS-S(W)160/4032H/PTZ/*

- IP Outdoor PTZ camera station, 32x optical zoom
- Stainless steel housing with/without wash and wipe
- Color code=*
- Degree of protection IP66/IP68
- Power supply: 230V, 50...60Hz

WTC2520/FIX/EP/*

- Connection box/wash water tank combo, stainless steel, 2,5l
- Color code=*
- Degree of protection IP66/IP67
- Power supply 110...230V, 50...60Hz.

WTC2520/PTZ/*

- Connection box/wash water tank combo, stainless steel, 2,5l
- Color code=*
- Degree of protection IP66/IP67
- Power supply 24V

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.

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 suitability for the use of the monitor on the navigating bridge with regard to its display features is to be checked for the respective application.
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

Tests carried out

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

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