

We ensure clear vision: Optics and Optronics for the navy



We make it visible.

Clear vision leads to clear decisions

Whether for navigation, reconnaissance or surveillance – safety for man and material comes first. Being able to react to any situation and make the right decisions is only possible with precise, up-to-date information – under all weather conditions during the day and at night.

With its periscopes and optronic mast systems, Carl Zeiss Optronics makes an important contribution around the world. These optical and optronic systems are equipped with thermal imagers, various TV cameras and an eye-safe laser rangefinder.

The outstanding quality of the optical systems and the high performance of the optronic components enable detection, recognition and identification of objects at great distances. Periscopes and optronic mast systems from Carl Zeiss Optronics are therefore vital sensors in a submarine's combat system. They more than meet operational and logistical requirements. Extensive documentation, intensive training and systematic service ensure long-term operational readiness over the entire service life of the product.

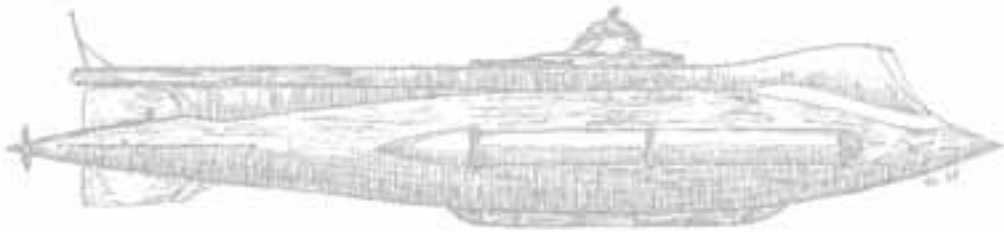
Making the invisible visible to commanders, providing good perspectives at sea: Carl Zeiss Optronics supports naval forces around the globe.



100 years of submarine periscopes from Carl Zeiss

Carl Zeiss Optronics, a subsidiary of Carl Zeiss AG, is able to draw on more than a century of experience in the development and construction of submarine periscopes. Today, submarines from 19 navies around the world rely on the high performance of the precision optics from Carl Zeiss Optronics.

The current product range for submarines covers optronic periscopes and optronic mast systems with stabilized lines of sight. State-of-the-art electronics and a modular design permit the extremely versatile sensor configuration – tailored to the customer.



ASC 17/NavS

SERO 40

SERO 15

SERO 14

SERO 400

OMS 100



**What you can expect
from Carl Zeiss Optronics:**

- Performance of studies
- Development of optical and optronic systems
- Construction of prototypes
- Qualification tests
- Series production
- Technical and logistics documentation
- Training
- On-board services:
 - System integration and setting to work
 - Support during testing
 - Support during harbor and sea acceptance test
- Maintenance and modernization of systems during their service life
- Delivery of spare parts and special tools, as well as measuring and testing equipment
- Proposals to set up and expand periscope workshops



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