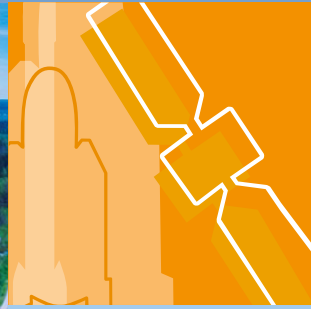


We give you space on earth.



## IABG's Competence Centre Optics (CCO)

World Class Test Facility for the development and qualification of optical systems and components

For future space-based earth observation and reconnaissance systems with optical payloads, customers are increasingly demanding more stringent requirements. Consequently, test facilities with advanced technical capabilities, e. g. for the calibration of large optical systems, will become necessary. Therefore, IABG is establishing the CCO for the qualification, calibration and functional performance tests of electro-optical payloads (for smaller and larger apertures) under ambient or space conditions within a Thermal Vacuum Chamber (TVC).

### The CCO comprises the following main parts:

- Modular design of the TVC with a usable diameter of 5 m and a length up to 14 m
- Highly stable thermal environment within the TVC
- Vibration decoupled optical bench in the ISO5 rooms and within the TVC
- Optical Ground Support Equipment (OGSE)  
(e. g. 2 flat mirrors, 2 collimators and collimator source assembly)
- Provision of an ISO8 (test hall) and ISO5 areas (in front of the TVC)
- Direct access to the existing space test centre and its test facilities and infrastructure
- Provision of further storage space and preparation area, offices and checkout rooms

Investment in the future of German satellite technology



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