Applications

Multi-purpose camera systems with radiation hard design for a wide field of applications

Our camera system developments and products profit by our long-term experience with our ASTRO star sensor product family. This enables us to offer a variety of solutions for demanding environments and a broad mission spectrum.

Typical applications and scenarios for our camera systems are:

- Relative navigation, e.g. Formation Flying of satellite constellations, Approach and docking to a space object or satellite
- Inspection of near satellite objects
- Surveillance of satellite surroundings
- Image generation for various applications, e.g. Earth Observation, Asteroid or comet observations, Detection of hot objects in Earth's atmosphere of on ground

For all our camera systems, reliability is our key priority and cornerstone. Hence, they are designed, constructed and build to work in rough environments with extreme radiation loads over a long lifetime.

Our customers trust products made in Jena and they appreciate the support from our team during the mission's lifetime. This makes us proud and we will continue to convince with reliable, innovative products.

Until recently, we focused on the visual spectrum of light with our camera systems. Our solutions for various Sentinel missions within ESA's Copernicus program enabled us to gain experience in other parts of the electro-magnetic spectrum.

Our new camera ASTROtir is using the thermal infrared part of the spectrum. Our ASTROhead cam has been successfully used on Northrop Grumman's Mission Extension Vehicles MEV-1 and MEV-2. Our cameras were essential sensors used during the mission for the approach and docking maneuver to a different satellite.