TAMRON

Innovative Optical Technologies for Space Missions

Since its establishment in 1950, TAMRON has consistently emphasized creativity and originality in its activities as a manufacturer of precision optical equipment.





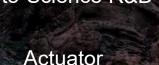
Space Imaging Systems

Laser Communication Technologies

Core Technologies



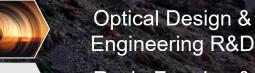
Opto-Science R&D



Coating & Filter



Lens Processing



Resin Forming & Molding



Partners



Thales Alenia Thales Alenia Space



Lens OTAs for Copernicus Programme of the European Union co-funded with ESA



NICT
National Institution of
Communication Technology



JAXA
Japan Aerospace
Exploration Agency

Space Environment Ready



We have thermal cycling, vacuum bake—out and top-grade optical performance check facilities in-house. We collaborate with external partners for vibration, shock and radiation tests in Japan.

Space Imaging Systems





TRL 9

Key Features.

High Precision

Space Heritage

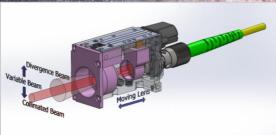
Low SWaP

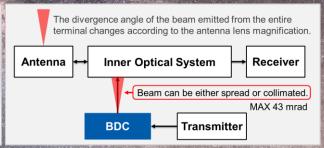
- ✓ Compact Space Environment Qualified Lens ✓ Designed for Use in a
- ✓ Versatile Lens to Shorten Development Time Wide Range of Application

Laser Communication Technologies

1. Beam Divergence Control (BDC) system

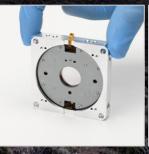


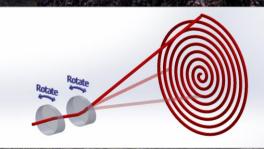


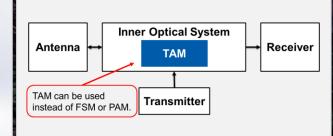


- √ The beam divergence can be adjusted by using a moving lens according to the actual operating conditions, such as link distance, pointing error, and vibration environment.
- ✓ Based on the principle prototype developed according to the NICT's commissioned specifications. we have achieved miniaturization and space compatibility
- 2. Transmissive Applied-optical Mechanism (TAM)

Under **Development**







- ✓ The optical axis of the beam can be adjusted quickly and accurately by rotating multiple prisms with high-precision actuators and control systems.
- ✓ Depending on the number of prism sets, TAM can be used for different kinds of applications from beam steering to beam fine pointing.

Contact

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