



LENS R&D B.V.



“When quality counts and budgets matter.”

About us

- **LENS R&D B.V.** is a Dutch SME specialized in high reliability Sun sensors for space applications.
- The sensors are batch produced and sold in a space grade commercial off the shelf (SCOTS) approach.
- Currently the main products are three types of analogue fine Sun sensors.
- The BiSon64-ET and BiSon64-ET-B are the only European fine Sun sensors that have been ESA qualified and the MAUS is the only radiation hardened CubeSat Sun sensor in the World.
- Based on proprietary radiation hardened four quadrant photodiodes, the sensors are qualified to an envelop specification that should fit >95% of all missions.
- Current developments entail two radiation hardened single chip true digital Sun sensors which will be without competition as for environmental resilience (including radiation tolerance) and cost effectiveness.

Solutions

- Lens R&D B.V. provides Sun sensing solutions with an unprecedented quality to cost ratio.
- Cost effective but with an extreme survivability the sensors optimize several budgets, be it cost, lifetime, mass, power or mechanical sizing.

Company highlights

- Founded in 2012.
- Obtained full ESA qualification in 2022 for the BiSon64-ET and BiSon64-ET-B sensors.
- Transferred from private company to B.V. in 2022.
- Sensors sold to missions ranging from LEO (various SSTL satellites) through HEO (ESA Proba-3) through GEO (CNES) to the Moon (Lunar Pathfinder) and Mars (CNES MMX rover).

Company facts

- **Owner of multiple facilities all associated with the manufacturing, calibration and qualification of Sun sensors.**
 - Two dedicated cleanroom (97m² ISO Class 8) with ISO Class 5 cleanroom benches.
 - Keyence VHX digital microscope for incoming inspections and documentation.
 - Dedicated assembly robot.
 - Dedicated calibration setup based on supercontinuum white light laser.
 - Dedicated TVAC facility.
 - Dedicated HALT test setup.
 - Various test adapters for miscellaneous tests.



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Connect

