

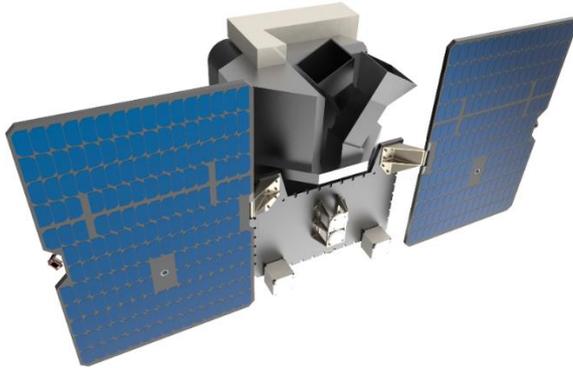
AMOS' compact hyperspectral instrument "ELOIS" to onboard a microsatellite soon

AMOS s.a., a Belgian company specializing in the design and manufacture of advanced optical instruments, and the European Space Agency (ESA) have signed a contract to build and qualify a first flight model of an advanced compact hyperspectral imager designed by AMOS and called ELOIS.

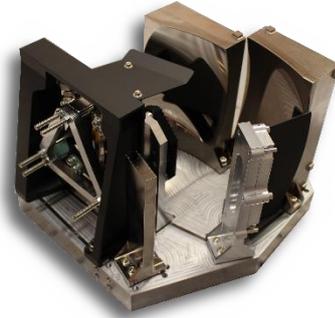
Thanks to the financial support of the Belgian Science Policy Office (BELSPO), this co-funded project will deliver the payload to be integrated on an InnoSat platform by OHB Sweden AB for a launch in 2024. Both companies have indeed been selected for an In Orbit Demonstration mission as part of the EU Horizon 2020 IOD/IOV Initiative. This programme provides to the European industry opportunities to demonstrate and validate in space their most promising technologies and products. Such missions are essential for fostering innovation and expanding space capabilities. It shows the European Commission's commitment to maximise European competitiveness, independence and service sustainability in the space sector.

AMOS, leveraging its extensive experience in optical design and free form optics manufacturing, has developed a compact and lightweight hyperspectral instrument dedicated to smallsats and offering a unique combination of large swath (70 km), broad spectral range (VIS-NIR-SWIR), high spectral and spatial resolutions and excellent radiometry. This high performance is achieved thanks to the integration of several technological innovations such as our multiblazed free form grating. AMOS' unique expertise developed in the ELOIS programme has also been rewarded through its selection as member of the Core Team, led by OHB System AG (Germany), in charge of the development of the future CHIME instrument (Sentinel 10). This flagship hyperspectral mission is part of the EU Copernicus Expansion programme.

Philippe GILSON, AMOS' CEO: *"AMOS has a long track record in delivering advanced space hardware to large system integrators, from complex mirrors to complete opto-mechanical sub-systems. Our ELOIS is the best of both worlds: large-scale institutional mission capabilities blended in a smallsat payload suitable for the kind of remote sensing constellations considered by New Space startups as well as emerging space-faring nations. With this first IOD, we are paving the way towards our future range of high-end Earth Observation cameras that will be AMOS' contribution to better seeing, understanding and reacting to the multiple changes affecting our Planet."*



IOD/IOV preliminary render of the satellite carrying the ELOIS hyperspectral imager from AMOS (image: OHB Sweden)



Spectrometer of the ELOIS hyperspectral camera

Want to know more?

You are interested in learning more about the ELOIS instrument and this IOD mission?

Feel free to get in touch:

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To learn more about AMOS' ELOIS payload, [click here](#).

For details about OHB Sweden's InnoSat platform, [click here](#).

For more information about the CHIME mission, [click here](#).

Acknowledgment

This contract is carried out under a programme of and funded by the European Space Agency through the Belgian financial contribution managed by the Belgian Science Policy Office.

Disclaimer

The view expressed herein can in no way be taken to reflect the official opinion of the European Space Agency and of the European Union.



AMOS in a few words

Located in Belgium, AMOS has been designing and building high-precision optical and mechanical equipment for more than 35 years. Its main achievements are professional telescopes, space optical systems, test equipment for space instruments, and high-precision mechanical equipment. It employs more than 100 employees highly skilled in advanced technologies and offers services to the space industry, to the professional astronomy sector, to scientific laboratories and to industry.

AMOS has customers in Europe (ESA, ESO, AIRBUS DEFENCE & SPACE, THALES ALENIA SPACE, OHB), in United States (AURA), in India (ISRO, PRL, ARIES), and has more recently expanded its business in countries like China, Turkey and Russia.



Space instrument integration (BTA)



Thermal-vacuum Test Facility for VSSC (ISRO)



ATS (Auxiliary Telescope Systems),
“mobile” telescopes of the VLTi in Chile (Cerro Paranal)