

CUSTOM OPTICAL SOLUTIONS FOR SPACE & SECURITY

Engineering & Manufacturing
Innovative Optical Systems

LAMBDA-X | HIGH-TECH INNOVATION | MASTERS IN INNOVATION

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www.lambda-x.com

Core activities



Engineering & manufacturing services of innovative optical systems.

Applications :

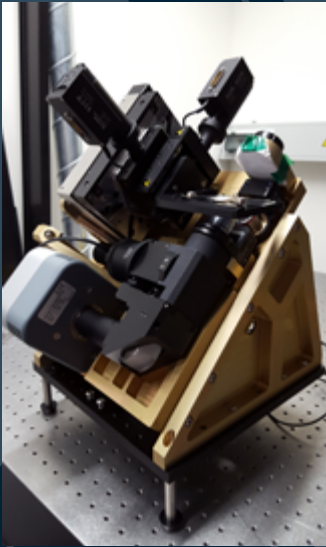
Scientific instruments

Imaging, metrology and control systems

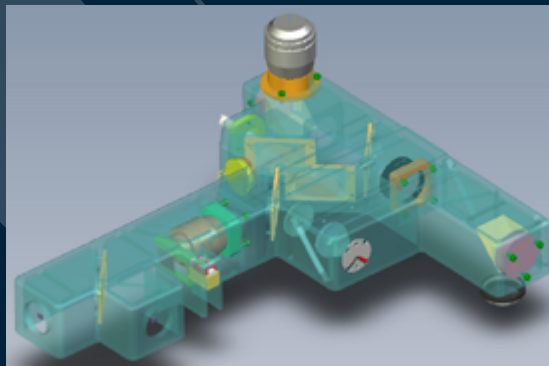
Manufacturing of flight models

Serial productions for security

Technical innovations for ESA



WE ARE YOUR TRUSTED AND
EXPERIENCED TECHNICAL ADVISOR



Lambda-X in a nutshell

Co-creation & innovation management

Active since 1996 and considered a key player in the space sector, Lambda-X has developed and manufactured over 30 instruments that have been deployed in space.

By working in close cooperation with its customers, and thanks to its expertise in optics, mechanics, electronics and software, Lambda-X is able to provide the most suitable solutions to many complex industrial metrology challenges.

Today, the company is composed by over 40 individuals specialized in physics, engineering, software design as well as quality control and project management.



From concept to product

Co-creation & innovation management



Assets



Proven R&D and serial production capabilities



+30 ASD (sub)-systems for **harsh environment**



World leader in the field of quality control equipment for intraocular and contact lenses



Co-creation and innovation management



Able to lead multi-partner projects & act as sub-contractor



650 m² of clean rooms (optical lab & integration)



4 patents related to optical methods



Certified
ISO 9001:2015
EN 9100:2016

Science payloads

Embedded optics laboratories

Lambda-X supports science teams by designing and manufacturing optical diagnostic tools for the International Space Station (ISS) or sounding rockets.

Technologies

Imaging and light scattering
Observation with high-speed black and white and infrared cameras
Mach-Zehnder interferometer
Digital Holography
...

References

ICAPS SR2 (Interactions in Cosmic and Atmospheric Particles Systems – Sounding Rocket #2)
Phases C/D/E of LSU (Light Scattering Unit) sub-system development, in support to QINETIQ
ARLES II - ESA Science experiments on Sounding Rocket Missions – SSC - Fluid evaporation in space
HOST1 & HOST2 Optical Modules Development for Heat Transfer Experiments on the International Space Station - QinetiQ Space



Imaging technologies

Observation & monitoring

Our teams develop innovative and performing products for Space exploration and Earth observation. Compact and light, these systems can withstand harsh environments as well as severe launch vibration levels.

Space exploration

PROSPECT (Package for Resource Observation and in-Situ Prospecting for Exploration, Commercial exploitation and Transportation) - access and assess potential resources on the Moon

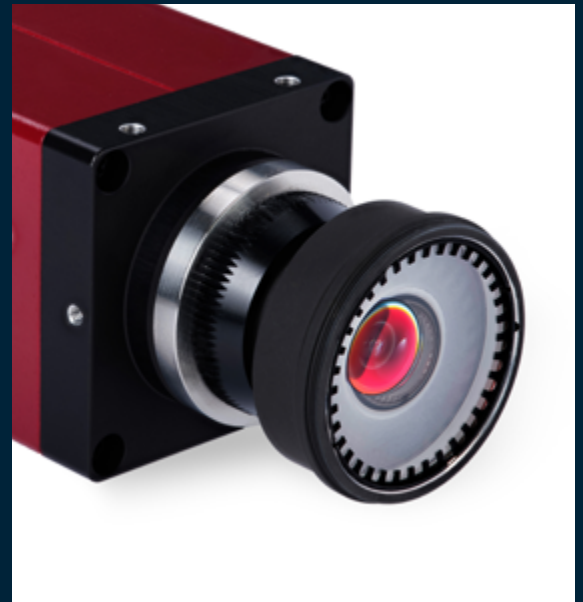
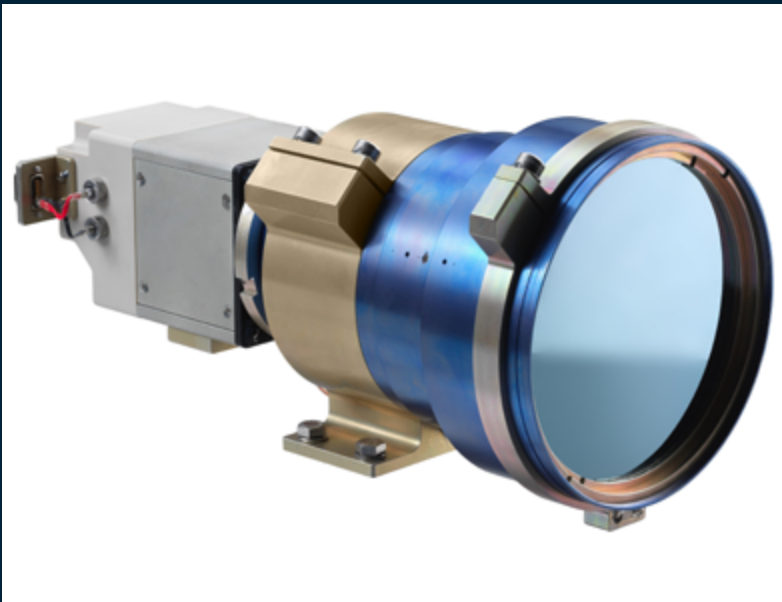
MMX Mission Optics for NavCam Camera embedded on Mars Rover

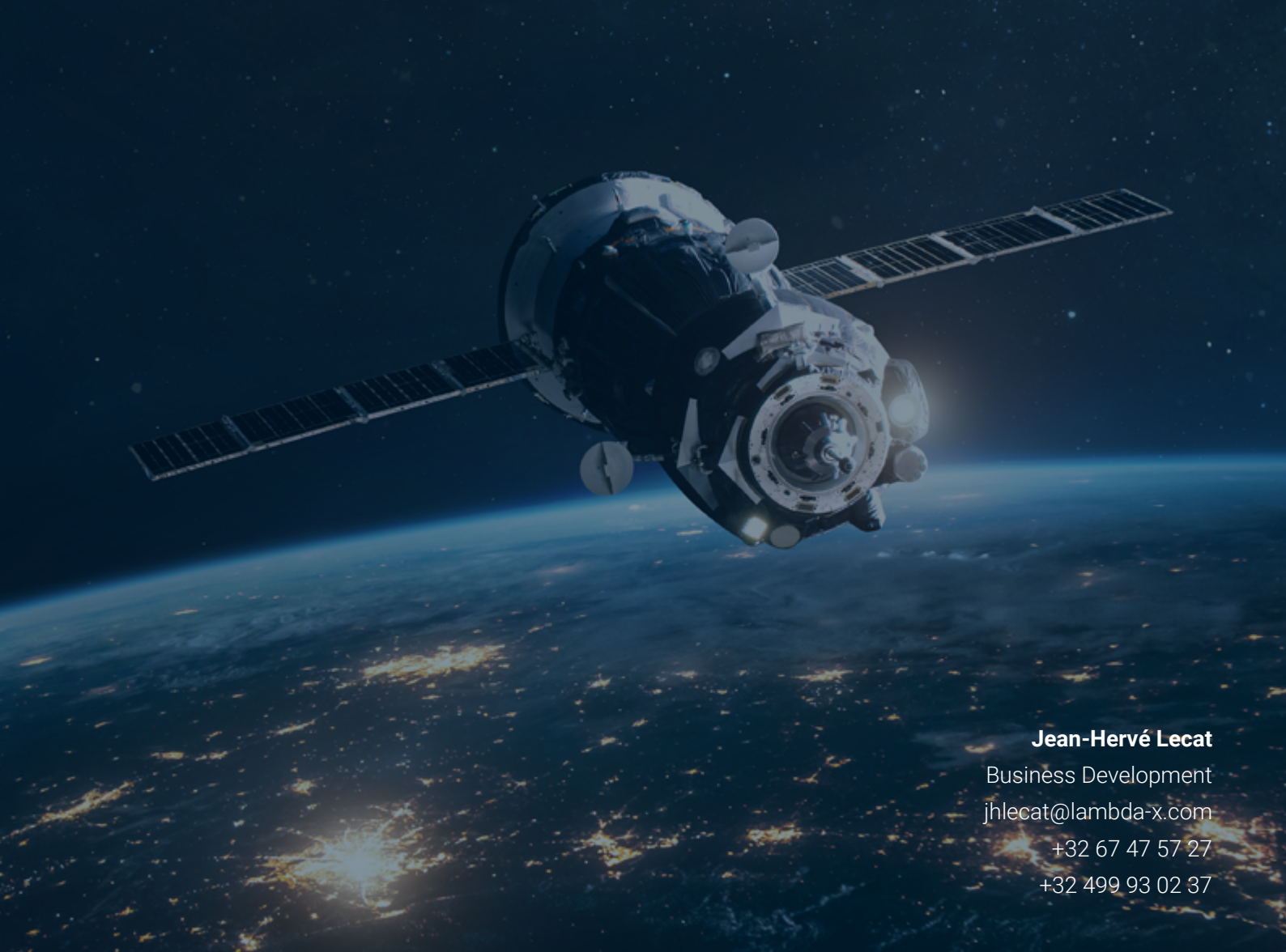
NOMAD - UVIS (Ultraviolet and VISible) module on board of ExoMars Trace gas orbiter

Platform monitoring

JUICE (JU)piter ICy Moons Explorer Mission - design, manufacturing and testing of custom optics for monitoring camera

BIOMASS Mission - MCAMv3 - design, manufacturing and testing of wide field angle optics to be used for platform LDR deployment





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