



Metal mirrors and telescopes for Earth observation from UV to IR

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EPIC OTM on Photonics for Earth Observation, 04.03.2024

S SPACEOPTIX KEY FACTS

- Spin-Off from Fraunhofer IOF, founded 03/2020
- Technology transfer from applied research to industrial production of **high-quality metal optical components and systems**
- 3200 m² manufacturing area, space-qualified process chain





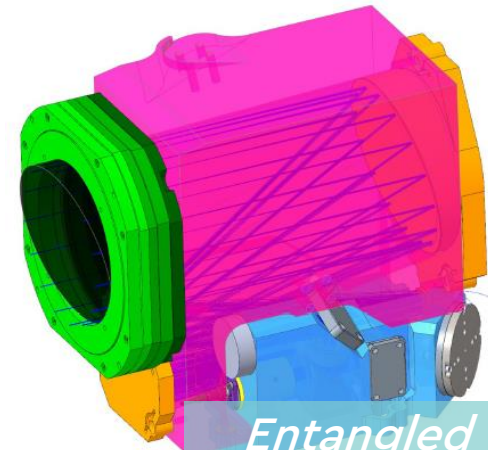
PRODUCTS AND CAPABILITIES



*SPX Standard
high-quality OAP*



*550 mm freeform
mirror*



*Entangled QKD
payload for
CubeSat*

Stock OptiX®

Built-to-print
manufacturing

Co-Engineering &
Cooperation Projects



QUANTUM OPTICS
JENA

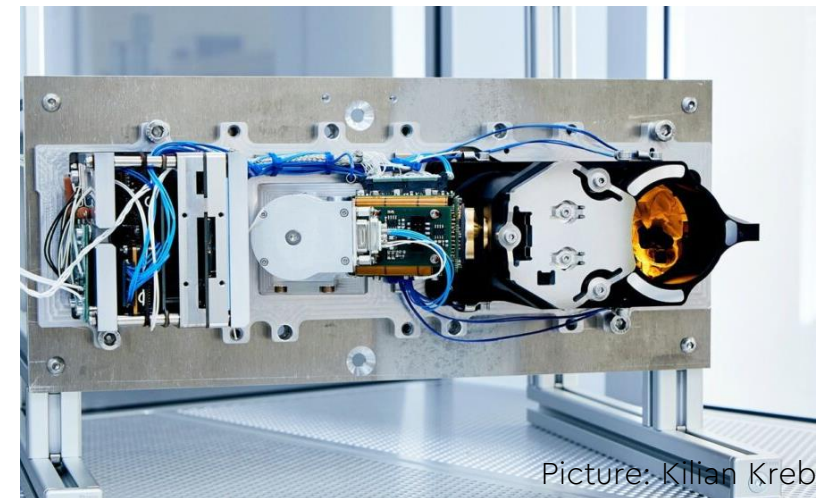
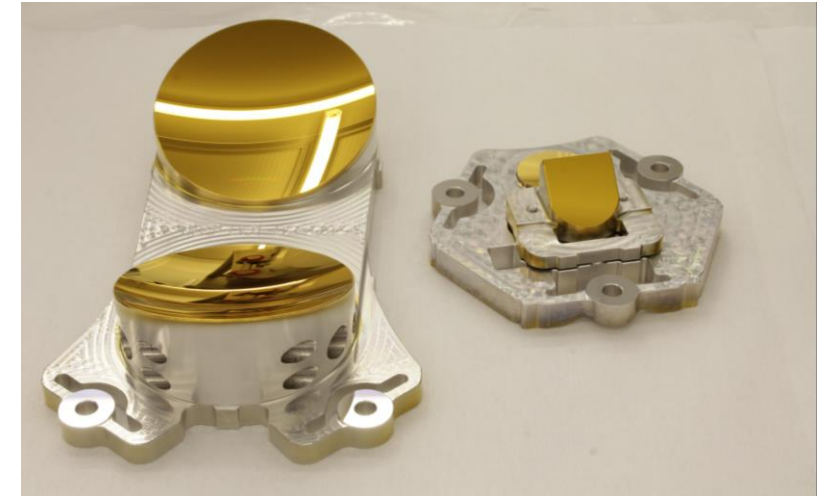
SPACEOPTIX GmbH
March 04, 2024
PUBLIC

S IR FREEFORM TELESCOPE @ISS

- Aluminum optics for high-resolution temperature monitoring from small satellites
- In-Orbit demonstration for ConstellR's technology, launched in early 2022 to ISS

SPX OFFER

- System engineering
- Complete optics manufacturing
 - CNC machining + thermal treatment
 - Diamond machining
 - Qualified cleaning and coating
- System assembly and testing

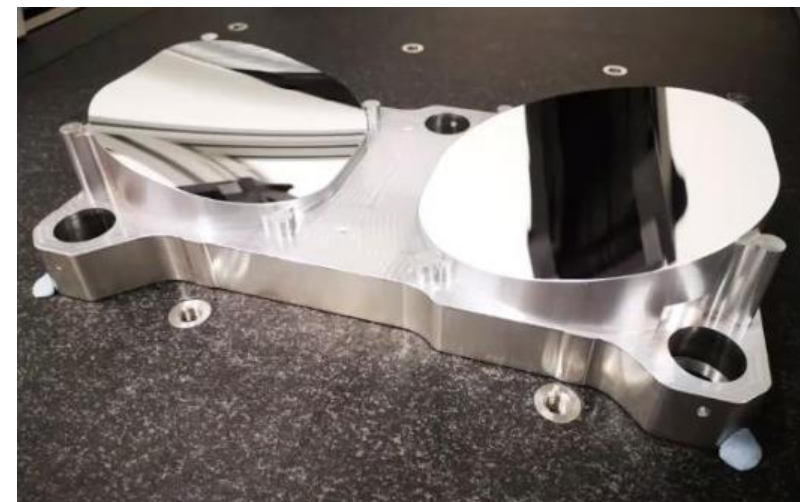


Picture: Kilian Krieb



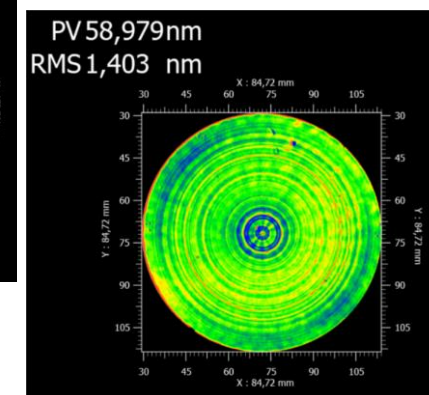
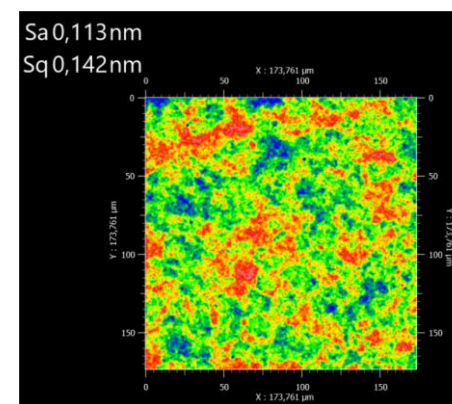
S OPTICS FOR UV/VIS EARTH OBSERVATION

- Plated aluminum optics allow for polishing and figure correction after diamond turning
- Several mirrors and telescopes for high-resolution imaging realized



SPX OFFER

- System engineering
- Complete optics manufacturing
 - CNC + diamond machining
 - Optics plating, polishing, correction
 - Qualified cleaning and coating
- System assembly and testing



SPACEOPTIX

IT'S TIME FOR LAUNCH.



Thanks for your interest!

Contact us: info@spaceoptix.de



Ausgezeichnet mit dem



XXIII. Innovationspreis Thüringen 2020

