ACSAT-1 A new space observatory designed by IACTEC

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Confirmation and characterization of transiting exoplanets

Confirmation of Earth-like exoplanets orbiting lowmass stars



Stellar activity, asteroseismology and asteroids

Confirmation of giant planets orbiting young solar-type stars

Improved planetary characterization







The payload: TAJINASTE

Aperture: 22 cm FOV: 30 arcmin (TBC) VIS-NIR: 400-1000 nm 1024x1024 e2V CCD47-20 CCD



Spacecraft specifications

Pointing stability: < 8 arcsec RMS

600 - 800 km altitude

Dawn-dusk Sunsynchronous orbit; Riding the day-night terminator



High-precision photometry (350 ppm, 1 hour, M3, V~13.5)

- Limits impact of sunlight
- Limits impact of reflected light

ESPA ring

IACTEC-Space

A modern laboratory dedicated to the design and manufacture of space instrumentation in the Canary Islands. With IACTEC Space, the IAC aims to become a major player in the future of space instrumentation. In the span of 7 years since its conception, we have already launched 2 Earth-observing telescopes, DRAGO-1 (2021) and DRAGO-2 (2023).



Trajectory DRAGO-1 (in space) 2021 DRAGO-2 (in space) 2023 ALISIO-1 (launch) 2024 IACSAT-1 (TAJINASTE) ... Soon IACSAT-2 (VINIS) Soon



Contact and information



