

Spain

INTERNATIONAL ASTRONAUTICAL CONGRESS - IAC 2019

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Washington D.C. (USA) | Booth 197

Exhibiting companies



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Alén Space provides end-2-end business solutions based on CubeSat platforms (1U to 12U...) to put our clients' business into orbit. 11 years designing, manufacturing and operating 100% successful satellites, best-in-class technology (HW & SW), and high quality manufacturing processes (ECSS based) make Alén Space the perfect partner to Space.

At Alén Space, we have the ability to develop tailor-made projects adapted to the needs of our customers; we also offer solutions that are already 100% operational and tested in orbit, such as: Internet of Things (IoT); Aircraft Surveillance (ADS-B) and Signal Intelligence.

Alén Space also provides stand-alone best-in-class Hw & Sw:

- Software Defined Radio (Totem)
- IoT Terminals
- Communication Payloads: IoT, ADS-B, SigInt...
- On-board software
- Mission control software

With Alén Space you will BE THERE_



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AVS is proud to be one of the world's leading companies in the design and development of bespoke equipment for large science and research infrastructure across the globe. In AVS Space, we conceive and develop unique mechanisms, instruments and robotics for Earth Observation, Exploration, Telecommunication and Science missions as well as Ground Support Equipment and In-orbit servicing applications.

We are also working towards a new, extensive catalogue of space products covering thermal applications, mechanisms and Electric Propulsion systems that enhance and create mission opportunities and capabilities.

Some of the projects developed in the Space area are:

- MEDA WS: Flight models of the Mechanism and Structure of the Wind Sensor for MEDA Instrument onboard NASA's M2020 rover.
 - AQUAJET: Design, build and operate the first water plasma thruster in Europe.
 - ACTS: Autonomous Cache Transfer System. Development of an end-effector and sample restraint system for Mars Sample Return mission.
 - CLM: Clamping mechanism for Active Debris Removal.
 - Ground support equipment, STC-3: development and delivery of a full stainless steel thermal-vacuum chamber for the National Space Test Facility for RAL Space.
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Elecnor Deimos, technological branch of Elecnor, provides complete in-orbit satellites, as well as engineering solutions for systems, ground segment, mission and software analysis and design to both public clients (ESA, European Commission, NASA, EUMETSAT, etc.) and private.

The company was founded in 2001 aiming to develop and provide high-tech systems and engineering solutions. Deimos participates in the majority of ESA programmes, in the fields of Science and Exploration, Satellite Navigation, Earth Observation, Space Situational Awareness, and Launchers.

Our capabilities include the development of turnkey operational systems for aeronautical and maritime applications, both civil and military, including UAV systems and solutions.

Additionally, we provide services for the transport sector, applications for the optimisation of industrial processes, digital transformation solutions and location-based services.

Main projects: Exomars, EO-Alert, Proba-3, Sentinel 3, Cheops, Deimos-1 and Deimos-2, Mars Sample Return, Juice, Lagrange and Discoverer.



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DHV TECHNOLOGY is a Spanish company that designs and manufactures Solar Arrays for space applications. DHV is actively involved as well in the Electronic Power Supply of Satellites.

DHV TECHNOLOGY operates in LEO, GTO and Deep Space markets and is capable of delivering products to GEO missions as well. DHV delivers fully custom solutions in whatever Cubesat Form Factor should be needed and solar arrays based on Carbon Fiber Reinforced Plastics and Aluminum Honeycomb. DHV provides full engineering capacity and testing services for the different test campaigns requested by the Satellite assemblers.

DHV is delivering solar arrays to different constellations as SPIRE Global and ICEYE. It is also delivering complex solar array solutions for Space Agencies as End Users: ESA, CNES (France), ASI (Italy).

With flight heritage since 2014, DHV has solar arrays in flight in more than 45 satellites where the longest satellite in operation with DHV products is UNISAT-6, flying since June 2014.



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GMV is a private engineering and technology group, being one of the strongest players in the Space domain. It is a premier provider worldwide for space organizations and agencies, and the major satellite manufacturers and operators.

With over 35 years of experience behind it and nearly 500 satellites carrying its technology, GMV can safely claim to be a technological partner of cast-iron dependability, capable of meeting the most stringent needs under the strictest quality standards. It had achieved CMMI Level 5 certification, covering the whole range of activities and services within the Space sector. Looking to our projects we can highlight our major responsibilities on the European satellite navigation programs Galileo and EGNOS, our presence in the commercial satellite telecommunications market, where we are recognized as the first worldwide ground segment provider, our strong commitment in Earth Observation and meteorological programs for ESA, EU, EUMETSAT, Spanish government (Copernicus, Ingenio/Paz, MTG, EPS/SG, Earth Explorers), our major challenges on IOD missions (PROBA-3) or Robotics and Space Exploration (Exomars, MSR), and our products and services around space safety and planetary protection (SSA, SST).



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Operator of governmental services by satellite to act fundamentally in the areas of defense, security, intelligence and external services. Since 2005, the company provides secure satellite communications services to government agencies in different countries and since September 2018 provides Earth Observation services with radar technology through the satellite PAZ, successfully launched on February 22, 2018.

Three business areas:

- The government communications system: Based on two operational satellites, SpainSat and Xtar-Eur, which offer communications coverage on two thirds of the Earth. Hisdesat is working in a new SPAINSAT NG Program.
- Earth Observation System: it consists of two satellites, PAZ (radar technology) and Ingenio (optical technology). Both have multiple applications: border control, intelligence, environmental control, protection of natural resources, military operations, etc.
- The information system (AIS) of maritime traffic by satellite consists of a constellation of satellites that receive the AIS signals from more than the ships equipped with this system.

Main customers: The Ministry of Defense and the Ministry of Foreign Affairs of Spain, the CNI, the Spanish Civil Guard, the Spanish Navy, the US Department of State, among others.



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SATLANTIS MICROSATS SL is a Spanish technological SME specialized in developing very high resolution Earth Observation optical payloads for small satellites all over the world, through a combination of knowledge and heritage in Astrophysics, Space, Engineering, and Business.

SATLANTIS baseline technology is iSIM, the integrated Standard Imager for Microsatellites, a compact and high-resolution imager for Earth Observation applications developed by SATLANTIS. Thanks to its design characteristics, iSIM payloads will be able to record data continuously without the need to stabilize the satellite, and therefore the imager is especially suited for the monitorization of linear structures on the Earth's surface such as coastlines, pipelines and borders.

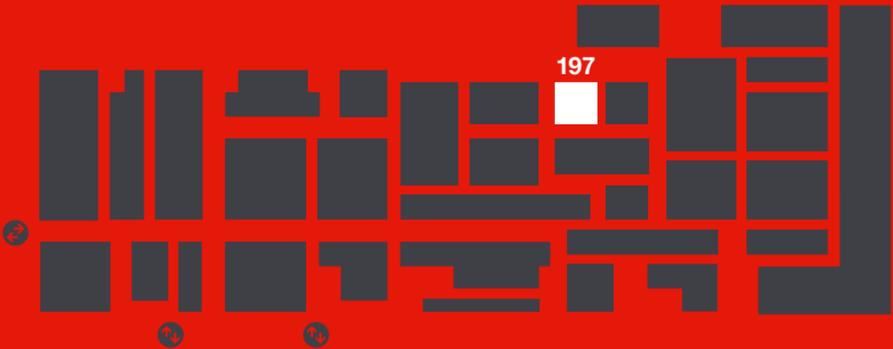
The principal features offered by SATLANTIS optical payloads are: very high spatial resolution (<1m) in both Panchromatic and Multispectral modes and wide swath, in a compact, low mass and small size design, when compared to traditional EO payloads, and offering high savings in platform and launching costs, with minimum delivery time. SATLANTIS payloads are suited for microsatellites (<100kg) and for CubeSats (12-16U).

The main ongoing projects are:

- European - SME Instrument Phase II, European Commission: aiming to introduce iSIM payload into the market, it covers the IOD to the ISS planned for Q1 2020.
- National - NEOTEC CDTI, SEER: destined to support new technological companies.

Spain Pavilion Booth 197

Walter E. Washington Convention Center



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Y UNIVERSIDADES



CDTI

Centro para el
Desarrollo
Tecnológico
Industrial



Asociación Española de Empresas Tecnológicas
de Defensa, Seguridad, Aeronáutica y Espacio