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## UAE's first SAR satellite launched

It can capture images regardless of weather conditions or solar illumination

### DUBAI

Gulf News Report

UAE's first Synthetic Aperture Radar (SAR) satellite has been launched for Earth observation.

Bayanat and Al Yah Satellite Communications Company (Yahsat) launched their first low Earth orbit SAR satellite on Friday, in partnership with ICEYE via integrator Exolaunch.

It lifted off aboard SpaceX's Transporter 11 rideshare from Vandenberg Space Force Base in California. The satellite has established communication.

Launching the UAE's first SAR satellite is a significant milestone for the companies and the region to bolster Earth observation capabilities.

As part of the Earth Observation Space Programme, this satellite debuts the comprehensive SAR constellation that will deliver high-resolution, persistent monitoring solutions.

### How it works

The satellite will use SAR technology, an active sensing system that illuminates the Earth's surface and measures the reflected signal to generate high-resolution images.

Unlike traditional optical imaging satellites, SAR can capture images day and night, regardless of weather conditions or solar illumination.

Compared to other new Space SAR satellite services, ICEYE's radar antenna covers much larger geographical areas and provides higher-resolution images of smaller areas, providing more value to customers.

### Latest achievement

The satellite launch is the latest achievement from the ongoing partnership among Bayanat, Yahsat, and ICEYE. In 2023, the Earth Observation Space Programme was created to build national satellite remote sensing and Earth Observation capabilities within the UAE by building a SAR satellite constellation.

The constellation of LEO satellites will provide a consistent data stream for end-to-end solutions for SAR applications.