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Mitsubishi Electric Develops ALOS-2 Satellite System

For disaster monitoring, environmental protection, resource exploration and forest monitoring

TOKYO, May 23, 2014 – [Mitsubishi Electric Corporation](http://www.mitsubishielectric.com) (TOKYO: 6503) announced today that it has completed its development of the ALOS-2:DAICHI-2 advanced land-observation satellite based on a contract awarded to the company by the Japan Aerospace Exploration Agency (JAXA) in 2009. Mitsubishi Electric will provide the spacecraft, sensor and ground systems, including data processing, and will confirm operation after the ALOS-2 satellite system is launched from Tanegashima Space Center on May 24.

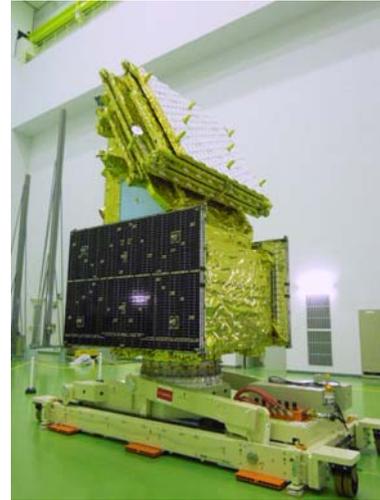
ALOS-2, a follow-on mission of its predecessor ALOS satellite, is equipped with the world's most advanced L-band Synthetic Aperture Radar (SAR) for improved resolution and wider observation range than ALOS. It is expected to contribute significantly to earth observations in terms of disaster monitoring, environmental protection, resource exploration and forest monitoring.

Mitsubishi Electric, a leading manufacturer contributing to space research and development in Japan, has participated in more than 450 domestic and international satellite projects as either the prime contractor or a major subcontractor. The company has developed and delivered numerous earth-observation satellite systems and observation sensors to JAXA and other space-related governmental institutions and agencies. Recently, Mitsubishi Electric was selected as the contractor to supply JAXA with the Greenhouse Gases Observing SATellite-2 (GOSAT-2) satellite system, which the company is now developing.

Going forward, Mitsubishi Electric will continue to contribute to Japanese earth-observation satellite systems as a leading manufacturer in fields ranging from security to the environment.



Rendering of ALOS-2 in Orbit



ALOS-2 at Tanegashima Space Center

ALOS-2 Overview

Orbital altitude	628 km (sun-synchronous sub-recurrent orbit)
Mass	Approx. 2 tons
Design life	5 years (target life of 7 years)
Observation sensor	L-band Synthetic Aperture Radar (1.2 GHz band)

		ALOS-2	ALOS
		L-band Synthetic Aperture Radar	L-band Synthetic Aperture Radar
Observation Modes	Spotlight	Resolution : 1 – 3 m Swath : 25 km	—
	Strip map	Resolution : 3, 6 or 10 m Swath : 50, 50 or 70 km	Resolution : 10 or 20 m Swath : 70 km
	Scan SAR	Resolution : 100 or 60 m Swath : 350 or 490 km	Resolution : 100 m Swath : 250 – 350 km

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About Mitsubishi Electric Corporation

With over 90 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,054.3 billion yen (US\$ 39.3 billion*) in the fiscal year ended March 31, 2014. For more information visit <http://www.MitsubishiElectric.com>

*At an exchange rate of 103 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2014