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Safe Flight Technology from Mitsubishi Electric for Airports

Airplane and flight traffic safety increased with Terminal Doppler Lidar System

Leading technology giant Mitsubishi Electric applies Terminal Doppler Lidar System developed specifically for airports to increase airplane and flight safety in Antalya Airport. Planning to complete the delivery of the system in Antalya Airport within 2018, Mitsubishi Electric also signed the contract to supply Terminal Doppler Lidar System to Nice Côte d'Azur Airport, the second busiest international airport in France. The system currently being used in Tokyo and Narita airports in Japan and Hong Kong International Airport in China, is aimed to start its operation in Antalya Airport in 2018 alongside Daxing International Airport in Beijing. Mitsubishi Electric aims to reach net sales profit of 2,5 billion yen in global market by March 2021 by incorporating this system into airports in other markets, mainly being the Europe.

Drawing attention for the special technology they developed for airports since 2015 in order to increase airplane and flight safety, Mitsubishi Electric is planning to deliver its new innovative system named "Terminal Doppler Lidar System" to Antalya Airport within the year 2018. Having especially critical importance for large airports located

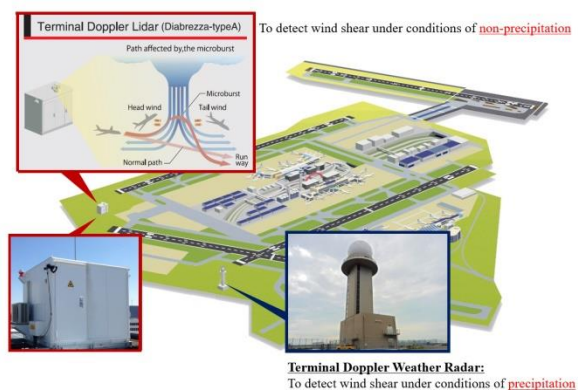
next to a sea, unlike traditional systems, Terminal Doppler Lidar System not only forecasts during rain but in all weather types, including fair weather in order to effectively prevent airline accidents caused by wind shear in airports.



Terminal Doppler Lidar System transmits laser beams and then detects light backscattered by dust and other particles in the air. This enables the system to measure line-of-sight wind speed using the Doppler frequency shift of the backscattered light. Mitsubishi Electric has developed a planar waveguide amplifier that extends the line-of-sight wind speed observation range to more than 20 km and complies with Standards and Recommended Practices of the International Civil Aviation Organization (ICAO), an organization ensuring that civil aviation operations and regulations conform to international norms.

First Delivery of Terminal Doppler Lidar System to Europe

Preparing to deliver the innovative system to Antalya Airport, Mitsubishi Electric also signed a contract to supply Terminal Doppler Lidar System to Météo-France, the national meteorology service of France, to be used in Nice Côte d’Azur Airport, the second busiest international airport in France. With this order, Mitsubishi Electric



will make the first delivery of Terminal Doppler Lidar to Europe, aiming to reach net sales profit of 2,5 billion yen in global market by March 2021 by enlarging air radar and lidar systems operations. The five Terminal Doppler Lidar Systems supplied by Mitsubishi Electric are still being used in Tokyo (Japan), Narita (Japan) and Hong Kong (China) international airports. Before the installation in Nice Côte d’Azur Airport, deliveries are expected to be made to Antalya Airport in 2018, as well as Beijing Daxing International Airport in China.

Supply Record of Terminal Doppler Lidar Systems

Recipient	Delivered	Quantity
Tokyo International Airport (Japan)	2015	1
Narita International Airport (Japan)	2016	1
Hong Kong International Airport (China)	2016	2
Tokyo International Airport (Japan)	2017	1
Beijin Daxing International Airport (China)	2018 (scheduled)	1
Antalya Airport (Turkey)	2018 (scheduled)	1

About Mitsubishi Electric Corporation

With over 95 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation 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 4,444.4 billion yen (in accordance with IFRS; US\$ 41.9 billion*) in the fiscal year ended March 31, 2018. For more information visit: www.MitsubishiElectric.com

*At an exchange rate of 106 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2018.

About Mitsubishi Electric's Activities in Turkey

Mitsubishi Electric's main fields of activity in Turkey are; air conditioning systems, factory automation systems, advanced robotics, CNC mechatronic systems, elevator and escalator systems and visual data systems. Mitsubishi Electric, which established a room air conditioner development and manufacturing company in April 2016 in Turkey, began production in Manisa factory in December 2017. Mitsubishi Electric, the producer of Turksat 4A and 4B satellites, which contributes to the communication and publishing infrastructure of Turkey and neighboring countries, is notable for its satellites as well as the automation technology used in the Marmaray project. For more information; tr.mitsubishielectric.com

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