

## MITSUBISHI ELECTRIC CORPORATION

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**FOR IMMEDIATE RELEASE**

**No. 3171**

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## Mitsubishi Electric Corporation Unveils New Technologies at Annual R&D Open House

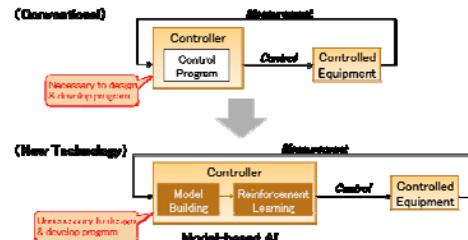
**TOKYO, Februray 14, 2018** - [Mitsubishi Electric Corporation](#) (TOKYO: 6503) announced new technologies, outlined below, at its annual Research and Development Open House held today at its headquarters in Tokyo, Japan.

**No. 3172**

### New Technology Uses Model-based AI Learning to Control Equipment

*Learns autonomously how to control equipment*

The company announced today that it has developed a technology that uses model-based artificial intelligence (AI) to control equipment autonomously.



Full release text: <http://www.MitsubishiElectric.com/news/2018/0214-b.html>

**No. 3173**

### Mitsubishi Electric Co-develops Touch-based Interface for Remote Controls to Enable Both Blind and Non-blind to Easily Operate Devices

*— Highly User-friendly Interface Induces Touch —*



The company announced today that together with a school for the visually impaired it has designed an experimental remote-control interface that enables people to easily operate equipment by using their sense of touch to recognize the intuitive shapes and movements of various controls.



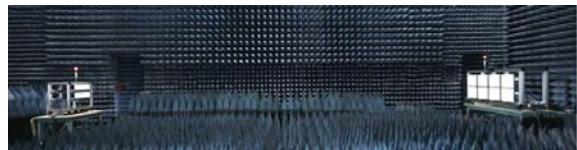
Full release text: <http://www.MitsubishiElectric.com/news/2018/0214-c.html>

**No. 3174**

## Mitsubishi Electric Demonstrates 16-beam Spatial-multiplexing Technology and Achieves 25.5Gbps Throughput in 5G Base Station

*Expected to contribute to ubiquitous connection of devices via broadband transmission*

The company announced today that it has developed a 16-beam spatial-multiplexing technology operating at 28GHz for fifth-generation (5G) mobile base stations and that it has demonstrated what is believed to be the world's first 5G system to achieve 25.5Gbps for one user device at 28GHz with 500MHz bandwidth.



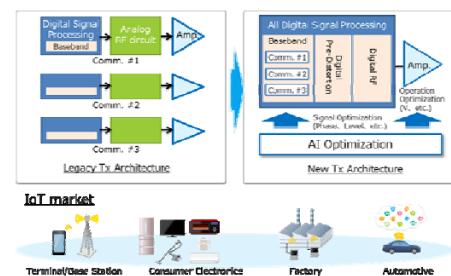
Full release text: <http://www.MitsubishiElectric.com/news/2018/0214-e.html>

**No. 3175**

## Mitsubishi Electric Develops Intelligent Wireless Communication Technology Supported with Artificial Intelligence

*Is expected to help reducing IoT device sizes and power consumption*

The company announced today that it has developed the world's first wireless communication technology capable of automatic optimization using its Maisart proprietary artificial intelligence (AI) and advanced digital technology to enhance both performance and capacity.



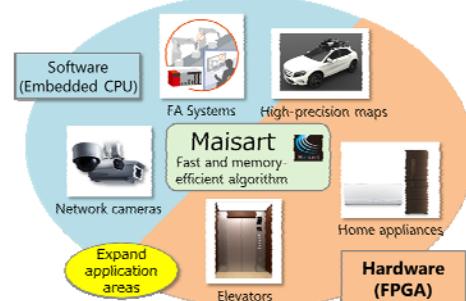
Full release text: <http://www.MitsubishiElectric.com/news/2018/0214-f.html>

**No. 3176**

## Mitsubishi Electric Develops Compact Hardware AI for Implementation on Small-scale FPGAs

*Improved real-time processing and reduced costs will expand opportunities for AI deployment in home appliances, elevators, high-precision maps and more*

The company announced today it has developed a compact hardware artificial intelligence (AI) technology that can be implemented on small-scale field programmable gate arrays (FPGAs) that users and designers can configure to develop tailored applications.



Full release text: <http://www.MitsubishiElectric.com/news/2018/0214-g.html>

**No. 3177**

## New Technology Develops Metallic-like Surfaces in Displays

*Adjusts gloss and shading in real-time according to the person's viewing angle*

The company announced today that it has developed a realistic “texture expression” technology, named Real Texture, that makes vehicle displays and digital signage appear to be realistic metallic-like surfaces for added viewing appeal.



Full release text: <http://www.MitsubishiElectric.com/news/2018/0214-h.html>

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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 4,238.6 billion yen (US\$ 37.8 billion\*) in the fiscal year ended March 31, 2017. For more information visit:

[www.MitsubishiElectric.com](http://www.MitsubishiElectric.com)

\*At an exchange rate of 112 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2017