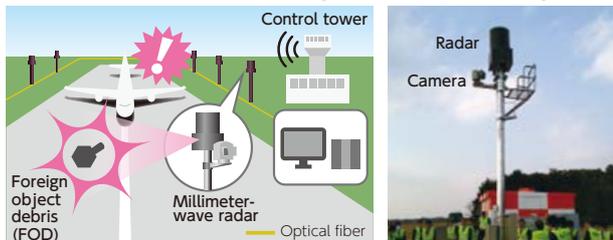


3 Contributing to Airport Safety and Security through the Development of a High-Speed Light-Receiving Element

■ Use scenario of the runway FOD detection system



Airports are used by many travelers. With increasing demand for air transport, the needs for improved airport operational efficiency and safety are expected to increase considerably in the next few years.

The Company has developed a high-speed light-receiving element. This element eliminates the need for external power source to convert optical signals into millimeter-wave signals, making it easier to build a network system combining an optical fiber and a millimeter-wave radar. We are now promoting the commercialization of a runway foreign object debris (FOD)

detection system that uses 90GHz millimeter-wave radars.

Early detection of FOD on runways not only contributes to safe and on-time flight operations, but also helps reduce fuel consumption and CO₂ emissions by circling aircraft waiting to land. We will strive to help realize a safe and secure society together with our customers by creating and providing high value-added solutions on a continuous basis.

VOICE

By combining optical communications technology and millimeter-wave radar technology, it is possible to realize a runway FOD detection system with unprecedented accuracy for detecting objects on runways. Amid increasing global demand for air transportation, we will continue to do our utmost to contribute to safe and efficient airport operations.



Yosuke Sato
EHF Application Project
Video & Communication Systems Business Unit

4 PQS Award Received from Intel Corporation

The Company has been recognized by Intel Corporation as a 2016 Preferred Quality Supplier (PQS) award winner. "The focus and dedication of Hitachi Kokusai Electric Inc. to meet the highest quality standards is second to none," said Ms. Jacklyn

Sturm, Vice President of Technology and Manufacturing Group and General Manager of Global Supply Management at Intel. "Intel works with thousands of suppliers around the world, and these select few suppliers have demonstrated leading-edge performance, making it possible for Intel to achieve the innovations of tomorrow."



2016 PQS award trophy

VOICE

Our Company has won the PQS award for 13 consecutive years, with this being the 14th time we have won it overall since we started participating in Intel's SCQI program. We are very honored and proud to receive this prestigious award. We will continue our efforts to further enhance the value of our products.

Tsuyoshi Okamoto
North America & Europe Sales Department
Semiconductor Process Engineering Business Unit

5 Grand Prize Received at the Toyama Prefecture Monozukuri Grand Awards

On February 13, 2017 the Toyama Technology & Manufacturing Center won the Grand Prize for its "Advanced Thermal Processing System for Nanotechnology" at the Fifth Toyama Prefecture Monozukuri Grand Awards. The Monozukuri Grand Awards recognizes manufacturing companies that have contributed to the industrial and cultural development of Toyama Prefecture, and the Grand Prize is awarded to the best company among all entries.

The product that won the award this time is a thermal processing system capable of manufacturing nanometer-scale fine circuits by making use of cutting-edge technologies. This system has made it possible to produce semiconductors with far greater performance than existing models. Our Company's



Commendation by the Toyama Prefectural Governor

Batch Thermal Process Systems are expected to further expand their market shares and take the world's top position, a major factor in our receiving this award.

VOICE

Our cutting-edge technologies are created by combining our core technologies and innovative technologies to meet customers' needs. This award was presented to us in recognition of our contribution to the revitalization of regional industry through commercialization of this most advanced equipment.

We will meet the expectations of the regional community by developing new technologies and products.



Toshiyuki Kikuchi
Semiconductor Process Engineering Business Unit