

From factory sites to familiar everyday situations, the IDEC Group supports the future of manufacturing and daily life through control technology.  
 With many products, including a diverse lineup of network-compatible products that advance the IoT (Internet of Things), we create products that meet the needs of the times.

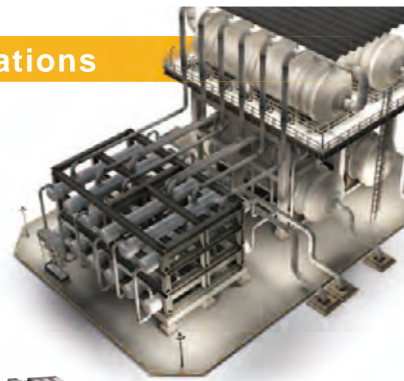


[ Making manufacturing sites safer and work environments more comfortable ]

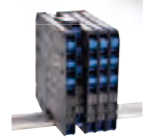
[ Making lives better every day ]

**Hazardous Locations**

IDEC expands its group of explosion-proof, structural products for use at sites that are at risk of explosions.



Display enclosures w/ touchscreen EX4R



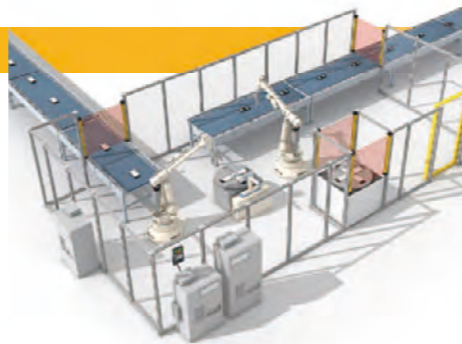
Intrinsically safe/flame-proof galvanic isolator for analog input D5014



Non-sparking explosion-proof LED lighting VMV

**Safety**

IDEC proposes safety measures to enhance the collaboration between humans and machines.



Interlock switches HS5L



Small teaching pendant HG1U



Safety laser scanners SE2L

**Automation**

IDEC manufactures key devices that drive smart factories.



Interface relays RV8H



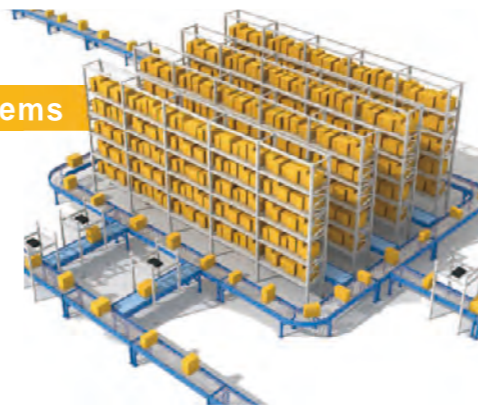
Programmable controllers FC6A



Small, fixed, two-dimensional code readers Matrix300

**Transport Systems**

IDEC contributes to the automation and efficiency of logistics.



Operator interfaces HG2G



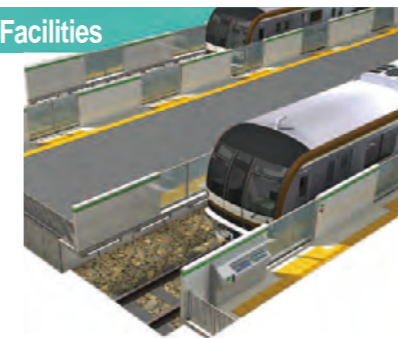
Bluetooth 2D imagers PD2500HP



Miniature laser photoelectric switches SA1E-L

**Public Transportation Facilities**

IDEC supports operational safety with our control technology.



LED illumination units LF1D/2D



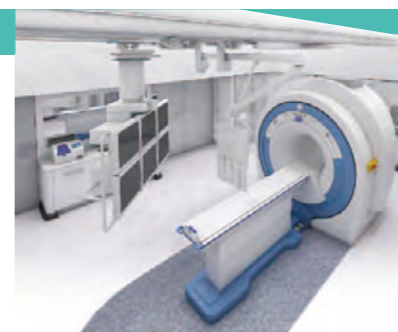
Super-bright pilot lights AP22



SmartRelay FL1F

**Hospital**

This product lineup is designed for hygiene and the prevention of medical malpractice.



Embedded 1D CCD scanners WB1F



Grip switches for medical equipment



Metal switches for medical equipment

**Environment and Energy**

IDEC provides complete residential energy management systems.



Power conditioners PJ1A



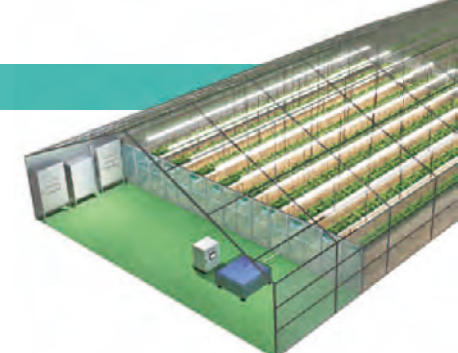
HEMS (Home Energy Management System) controller



Monitoring unit

**Agri Business**

IDEC offers a variety of technologies that contribute to the realization of state-of-the-art, smart farming systems.



Remote monitoring Control technology



LED technology



Fine bubble technology





**Yoko Kubota (Left)**  
**Tatsuhiro Watanabe (Right)**  
Industrial & Safety Development Department  
Industrial & Safety Division

**Hitoshi Aisu**  
Electronics & Automation Development Department  
Electronics & Automation Division

## Industrial & Safety Business

Providing the world with products derived from our uncompromising pursuit of absolute safety and ease of use

We are expanding the product range of our ingeniously designed switches, relays and safety devices while perfecting product quality, durability and safety.



Voice of GM

Aiming at a solid position as the leading control product company as well as securing Japan's number 1 market share in control switches, we continue to improve quality, cost and delivery (QCD).

At the same time, we are focusing on expanding our global market share by localizing products to fit regional needs.

**Yasuharu Kawanaka**  
Division General Manager  
Industrial & Safety Division



**Safety laser scanners**  
**SE2L**

These safety laser scanners, the world's smallest, ensure the safety and protection of a wide area, encompassing up to 270° and a distance of 5 meters. Equipped with an abundance of features, they offer versatility in controlling an area even when used alone.



**Interface relays**  
**RV8H**

These slim interface relays have a width of about 6mm and decrease wiring time by reducing the size of control panels and offering a lineup that employs spring clamp terminals.



**Metal flush silhouette switches**

These switches display a thin, stylish design that contributes to miniaturization and space savings in machinery and other equipment. The varied lineup supports a wide range of applications.

## Electronics & Automation Business

Building and supporting control systems that are evolving with time

Utilizing IDEC's combined manufacturing knowledge and experience, we produce high-value products that are cost competitive in global markets.



Voice of GM

Responding to the new era of IoT (Internet of Things), we are expanding a lineup of Web-supporting products with remote monitoring and operating capabilities.

We continue our efforts in developing and introducing products that are highly competitive globally in both hardware and software.

**Tomonori Nishiki**  
Division General Manager  
Electronics &  
Automation Division



**Programmable controllers**  
**FC6A**

High-performance FC6A models feature a compact body and multiple functions. This product enables the monitoring of status, and the operation of manufacturing machinery and various equipment from a remote location, while also adhering to the pursuit of added value.



**Operator interfaces**  
**HG Series**

These operator interfaces improve both display and communication performance via built-in high-resolution liquid crystals and a super-bright LED backlight. Crisp, vivid screens quickly convey information and can be connected to various devices.



**DIN-rail switching power supplies**  
**PS5R-V Series**

These power supplies target the global market by focusing on ease of use and high reliability. A slim design reduces space in control panels and contributes to miniaturization while decreasing costs.





Tetsuya Yoshizaki (Left)  
Naoto Inoue (Right)  
Explosion-proof Marketing & Development Department  
Explosion-proof Division



Kenji Sugiyama (Left)  
Hideki Fujiwara (Right)  
LED Production Department  
LED Division

## Explosion-proof Business

Ensuring safety at hazardous industrial sites through the newest global standards-compliant, explosion-proof technologies

We are boosting our explosion-proof lineup by expanding such products as explosion-proof LED lights and cameras that save energy and reduce maintenance.



Voice of GM

As a leading supplier of explosion-proof products, we are engaged in developing hydrogen explosion-proof products in preparation for an increase in the use of hydrogen-based energy and products with new functionality, such as an IoT platform to meet the latest market needs. In the meantime, in order to succeed in the global market, we are making sure our products conform to various international standards including IECEx, ATEX and UL.

**Hideyuki Kajiwara**  
Division General Manager  
Explosion-proof Division

★: Hydrogen explosion-proof products



**Explosion-proof LED illumination units**

This equipment results in energy savings and less maintenance at business locations and warehouses handling explosive gas. With explosion-proof construction in a compact, lightweight unit, this series offers a variety of models providing everything from high-bay to low-bay lighting, and lighting for tanks.



**Explosion-proof network camera systems**

These network cameras can be used in hazardous locations, such as petrochemical plants. Through the use of a wireless LAN, a high degree of freedom in installation sites is possible. A remote-controlled zoom function is also incorporated and images can even be monitored with a PC or smartphone.



**EC2B control boxes  
EU2B control units  
Explosion-proof certification approved by overseas authorities**

In addition to compliance with the ATEX Directive, which is advantageous for overseas plants, these control boxes and units including pilot lights and pushbuttons are also UL- and IECEx-certified.

## LED Business

Delivering optimum lighting for any setting by customizing for application and situation

Since the 1980s, our LED technology has advanced rapidly to meet the needs of customers, providing new lighting options for any setting.



Voice of GM

As we continue to focus on product quality and performance, our leading-edge LED products are finding new markets beyond the factory automation field. We are also boosting customer services by delivering what customers want instantly.

**Tomoyuki Nakano**  
Division General Manager  
LED Division



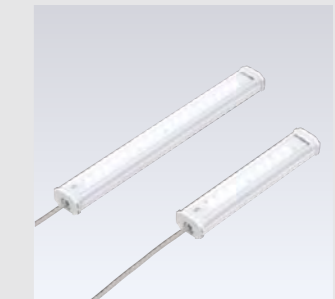
**LED grow lights**

IDEC researched the optimal wavelength for plant growth in order to construct lighting units that can provide the uniform light distribution needed to support a variety of plant cultivation environments.



**Commercial range hood LED lighting**

Employing dust- and water-resistant technology that IDEC cultivated when developing its factory automation products, this LED lighting is suitable for use in harsh environments, including those with steam and oil.



**LED illumination units LF2B**

With built-in, free-AC voltage power supply units, these versatile thin-type LED illumination units can be used in almost any location and situation.





**Tatsunobu Nakai (Left)**  
Marketing Manager  
Systems Division  
**Masatoshi Suzuki (Right)**  
Director  
CONET CO., LTD.



**Tadaetsu Hirao (Left)**  
Osaka Development Team  
Auto-ID Division  
**Yuji Suzuki (Right)**  
Sales Department  
IDEC AUTO-ID SOLUTIONS CORPORATION

**System Business** Creating new value through IDEC's technology and global network

In responding to specific customer needs, we offer an array of services from recommending an optimal control system to engineering such system in a speedy manner.



Voice of GM

The progress of IoT expands the boundary of our system business beyond factory automation. Foreseeing future trends, responding to changes, and integrating various needs, we deliver a new type of safety for human-machine (robot) collaboration.

**Kiyotaka Takenaka (Left)**  
Division General Manager  
Systems Division  
President  
CONET CO., LTD.

**Kenji Uchimura (Right)**  
Deputy General Manager  
Systems Division



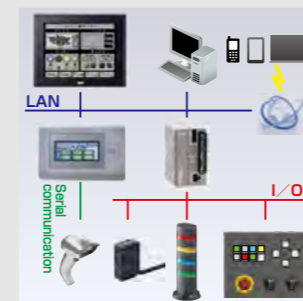
**Unitized solutions**

IDEC proposes unitized solutions such as switch harnesses, switchboards, switch boxes and relay boards that incorporate a combination of diverse switches and other products.



**Control panels**

IDEC has established an integrated system of electrical control ranging from the design of control and operation panels, to parts procurement, manufacture, in-machinery wiring, drawings, ladder logic, inspection and local setup.



**System solutions**

IDEC builds a variety of systems that incorporate programmable controllers for remote monitoring, production management, warning alarms and room entry/exit management, as well as manufacturing sites. Systems are provided to hospitals, stores and companies as well.

**Auto-ID Business** Providing “Kodawari” (meaning “relentless pursuit of perfection”) solutions to various fields with a wide range of auto-ID devices

We offer IDEC's own “Kodawari” auto-ID systems in addition to the powerful product lineup of the world's leading auto-ID manufacturer, DATALOGIC.



Voice of GM

Targeting four business segments, we customize solutions to the needs of customers and the characteristics of each market. We are pushing hard to expand the IDEC-brand product lineup to capture global markets.

**Hirotsugu Harada**  
Division General Manager  
Auto-ID Division  
President  
IDEC AUTO-ID SOLUTIONS CORPORATION



**Retail Healthcare**

In addition to the auto-ID systems (POS scanners, mobile devices, etc.) that meet the needs of the retail sector, IDEC offers the best solutions for the field of healthcare, such as medical malpractice prevention in hospitals where increasingly sophisticated management is required.



**Factory Automation**

IDEC delivers auto-ID solutions used in production automation, quality control, traceability, receiving, shipping and inventory control across a wide range of manufacturing industries.



**Distribution and Logistics**

Utilizing high-speed vision systems, high-speed laser scanners and automatic vision-based measurement systems, IDEC provides the latest solutions for airport automatic baggage sorting systems and door-to-door delivery services.



## Environmental & Energy Business

Delivering environmental and energy solutions for the future of the earth

“Sunlight, water, soil, food....” IDEC continues to take full advantage of the control and environmental technologies it has cultivated in order to protect the natural resources that are essential for all of us to survive.



### Voice of GM

In addition to mega-solar power plants we have built in Japan, we are now expanding our renewable energy resources to include wind and geothermal power.

Our efforts also extend to agricultural industrialization and one-stop service, as a total solution partner, encompassing farming facility design, construction, maintenance, guidance and produce-selling strategies. We promote our production technologies for the stable production of safe produce.

### Takehiko Tajika

General Manager  
Solar Smart Division  
Executive Director  
IDEC SYSTEMS & CONTROLS CORPORATION



### Tomohiro Nishida

Agrisystem Department  
Environment and Energy Business Division  
IDEC SYSTEMS & CONTROLS CORPORATION



### Yoshihito Nakajima (Left)

Engineering Department  
Environment and Energy Business Division  
IDEC SYSTEMS & CONTROLS CORPORATION

### Yasushi Nishimura (Right)

Engineering Department  
Environment and Energy Business Division  
IDEC SYSTEMS & CONTROLS CORPORATION

## [ Agricultural Solutions ]

### Plant factory utilizes solar light

IDEC is promoting factory-style greenhouse cultivation lit by both sunlight and artificial lighting by combining the comprehensive management of the photosynthesis environment through the control of temperature, light and other factors with the management of the rhizosphere environment by promoting nutrient absorption through the roots. This achieves robust agricultural production that efficiently and steadily delivers flavorful, high-quality products in a safe and secure manner. IDEC also offers services for everything from design and construction to farming analysis.



### Fine bubble generator for plant activation “agriGaLF”

This device encourages sound, healthy plant growth based on fine bubble generation technology that activates microorganisms in the soil.



### Control technology

From the status of the temperature and humidity, the amount of light, and the CO<sub>2</sub> concentration both inside and outside the greenhouse, this technology enables lighting and the opening and closing of windows to be controlled with a high degree of accuracy.

## [ Energy Solutions ]

As an EPC\* contractor, we handle all aspects of mega-solar projects, from planning to design, purchasing, installation and maintenance, as well as the development and sales of residential power conditioners and HEMS controllers, and the provision of cloud services. As a total solutions provider, IDEC promotes the spread of renewable energy, including solar power.

\* Engineering, Procurement and Construction

### Power conditioners

A new outdoor-type unit is available for IDEC's lineup of power conditioners, which gained popularity due to their high efficiency and workability.



### HEMS

(Home Energy Management System)

HEMS controllers can monitor, control and optimize residential demand for utilities, such as electricity, gas, and water, by using a visual display. In addition, IDEC offers an online service that manages power conditioners, power generation and operation conditions.



HEMS controller

Cloud system

