

**For a Bright and Delightful Future.**

**USHIO LIGHTING, INC.**

**Company Profile**

# **Ushio is a total solution provider working together to achieve “your goal.”**

Various societies, companies and persons each face their own problems, and there is no “one size fits all” solution to be found.

We stand in your point of view, listen to you, and sincerely consider what you want to resolve and how we can resolve it while looking at the essence of things.

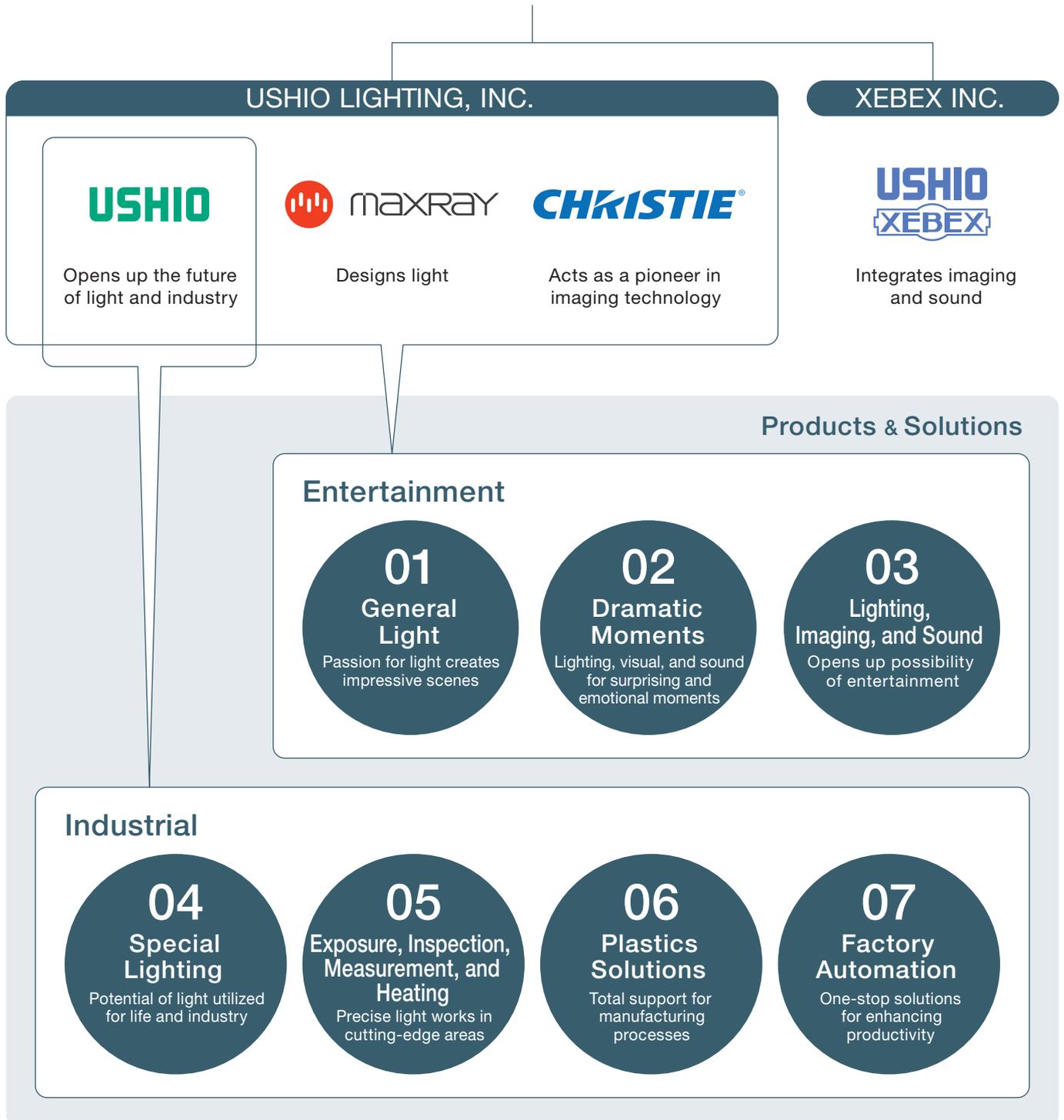
Moreover, we keep up communications and continue proposing creative solutions that can satisfy your needs.

We think, resolve problems, and achieve “your goal” together —this is our style of providing a solution.



USHIO  
ENTERTAINMENT

Creates excitement and expectation with unique ideas and proven technologies



We have continued improving Ushio's unique technological and product capabilities in the domains of light and industry throughout our history of over half a century. Combining them with our strengths in making proposals we have cultivated, we provide society and the market with solutions to open up the way for the next generation.

In these business domains that will evolve further in the future, we contribute to people's good lives and the development of society by making the most of our own abilities.



# Entertainment

**We open up  
the possibility of  
entertainment  
with all our ability.**

We have a structure to deliver seamless services as a group of professionals of light sources, lighting fixture, imaging and sound equipment, IT, and sensing in order to provide unprecedented added value to every space.

Professionals of various fields combine all their skills, knowledge, and know-how, and open up new possibility of entertainment.

- 
- 01** General Light
  - 02** Dramatic Moments
  - 03** Lighting, Imaging, and Sound

**USHIO**

 **maxRAY**

**CHKISTIE®**

# 01

## Light makes the future entertaining

Designs light to create “lighting.”

As a pure-play manufacturer focused on light,

Ushio makes the most of various new potential light sources with our technology, development, and application capabilities we have cultivated since our foundation.

We customize “lighting” by focusing on the quality of light, hiding the existence of light sources, or making artistic light, and provide it as a solution to make society entertaining.



### Artistic light Calms visitors' minds

We designed and proposed lighting suitable for guest rooms that combine the tradition of Kyoto and the modern stylishness. The combination of subtle, modest and conspicuous lighting merges into the quality space to enhance hospitality.

〈ANA Crowne Plaza Kyoto〉



### Customized lighting

## Design with minimum light to upgrade interior

Lighting is an item of the modern sophisticated interior that highlights the space and upgrades the interior. We meet these requirements with minimum and stylishly designed fixture so that customers can enjoy the elegant atmosphere.

〈The Cosmopolitan / Grand Front Osaka〉



### Minimized the presence

## Focusing on light colors and fixtures design to highlight the beauty of what is shown

In order to achieve lighting that emphasizes the texture and depth unique to Kyoto lacquer ware and the delicacy of gold lacquer applied to it, we designed lighting, focusing on details of ornaments and display racks as well as the interior. We also hid the existence of lighting fixture to further accentuate the lacquer ware.

〈ZOHICO Kyoto Teramachi Main Shop〉



### Seeking light quality

## Feeling layers of light with the eyes

Elaborately designed spaces require an atmosphere that relaxes both people's mind and body as well as the quality of light. We created layers of light by calculating the reflection and spread of light and adjusted the balance of light and shade so that eyes can feel the various look on the walls.

〈White essence Hiroshima Pacela〉



As a professional who has deep knowledge of lighting, Maxray accurately identifies space environments that change over time and practical needs, and realizes lighting fixture and lighting planning with innovative design. Based on deep know-how and passion for light quality, Maxray's light is designed in a space as "lighting" that is expressed through precise calculation and echoes to the sensitivity of mind including the beauty of shade.

- LED lighting fixture
- Lighting design
- Design/manufacturing of Custom-made lighting

- LED lighting system
- Halogen lamps
- LED lamps
- Lighting fixture

## 02

## Attractive lighting expands the possibilities of light

In the field of stage and landscape lighting, products and technologies are also evolving rapidly and their control has become more precise and sophisticated. Ushio provides dramatic impacts by using the latest products or technologies based on control techniques, the deep expertise, and the abundant experience it has cultivated in this field for a long time.

The possibilities can be expanded infinitely by our proposed solutions that give a deep impression and bring surprise to planners and designers as well as the audience.



### **Landscape** Light traps create a mysterious street that specters live

The site was renovated with the theme of “creating a human-centric road that everyone can enjoy.” We responded to this theme by using spot lighting on bronze statues, color lighting on trees, and casting silhouettes of specters on the road. Moreover the synergy with sound enhances the perfection of the Mizuki Shigeru Road.

〈Mizuki Shigeru Road〉



## Hotels and banquets

### Simply integrating and controlling many lighting devices

Many lighting devices and their complicated control are required for lighting effects in a large space or building. Ushio has products, technologies, know-how and people that can propose a total solution covering aspects from the selection and development of lighting devices to controllers, software and electric systems.

<Main banquet hall "soara," Hilton Tokyo Bay>



## Architecture

### Making sports watching an entertainment

Following the replacement of all the ground lighting equipment with LEDs, we realized vibrant effects linked with the vision and sound by the integrated control system in order to make the stadium more attractive. The circumference of the stadium is lit up while being synchronized with the ground lighting.

<ZOZO Marine Stadium>



## Stages and concerts

### Leveraging the evolution of hardware to create new stage effects

High-output and complicated color control capability are required for lighting equipment that achieves a dramatic impact and unforgettable stage effects. Ushio promotes the development of new merchandise and products incorporating new technologies, and even makes proposals for stage effects, to bring about a paradigm shift.



## TV stations and studios

### Supporting the beauty of high-definition images

Studio lighting equipment evolves as the video quality achieves higher definition like HD and 4K8K. With the U.S. company Zylight as a partner, Ushio provides high-quality lighting with a line-up of durable devices that reproduce beautiful colors and emit high quality light.



- Follow spotlight
- Stage lighting
- AV devices
- Landscape lighting
- Dimmer equipment and system
- Fiber optic lighting
- Lamps



©MIZUKI Productions

# 03

## Beyond

The true excitement and drama are beyond imagination and expectation. In order to create true excitement and drama, we will collaborate with our customer to go beyond social needs, stereotypes, conventional images, and ourselves in the past.



### Commercial facility **Creating the core of entertainment with lighting and imaging**

We installed an approximately 12-meter-high large LED vision extending across the 1st and 2nd floors at HOSHIKAGE City in this mall. This vision is linked with the ceiling lighting to produce gorgeous space effects. We provide a one-stop solution with a lighting system that enhances dramatic effects in addition to the hardware, software, and content of the vision.

〈THE OUTLETS HIROSHIMA〉

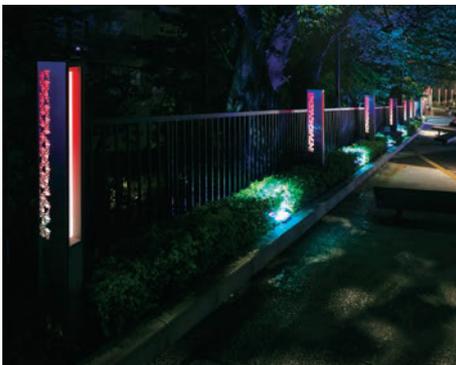


### | Event

## Enhancing attractiveness by utilizing local resources

We decorated the open space and courtyard of Himeji Castle, a world heritage, with light of various vivid colors and imaging as if they had been an extensive "garden" of the castle. Among others, the projection mapping casted on the 16-meter-square big cube expressed the architectural beauty and history of the castle with state-of-the-art light.

<HIMEJI CASTLE OF LIGHT >

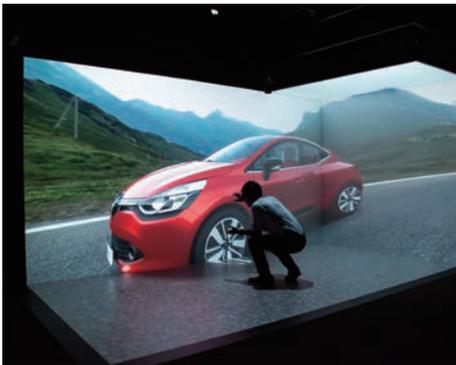


### | Landscape

## Entertainment street to attract eyes and ears

In order to provide a wide variety of entertainment that can satisfy first-time as well as repeat visitors, we installed multipoles that can independently produce effects linking light and sound. Programs adjusted to time and seasons create a happy moment.

<ICHOZAKA, Shinagawa Prince Hotel >



### | VR

## Created reality stimulates the senses of customer

If design can be made without preparing clay models, product design will be speeded up dramatically. In the design of automobiles, for example, we support engineers by providing immersion and high simulation accuracy thanks to precise imaging that realizes stereopsis with true 4K resolution.

<Ariake Division Showroom >

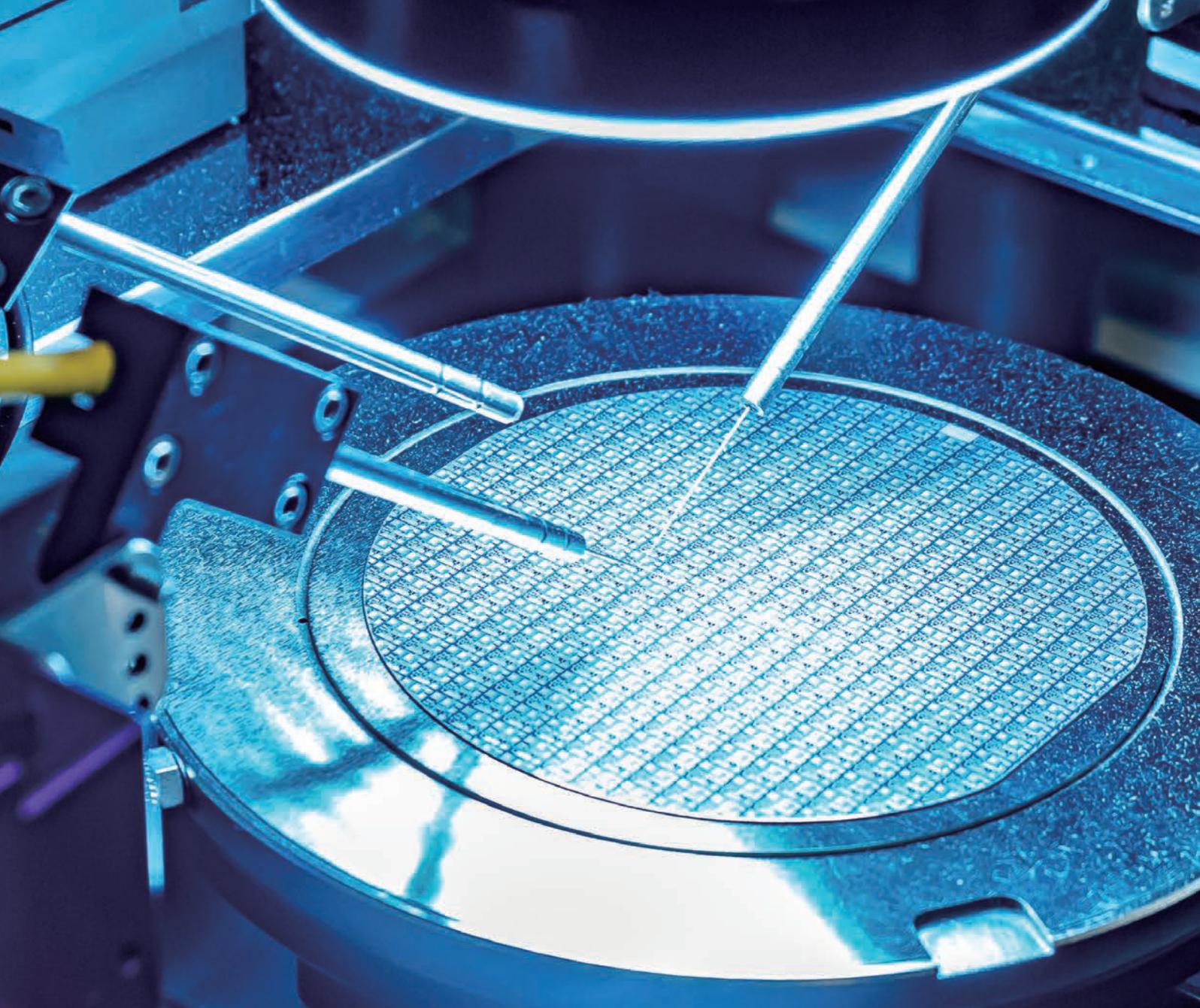


# CHRISTIE®

Cristie is a global brand that provides solutions for business, entertainment, and industry integrating projectors and audio. Cristie shares experience and excitement with you by challenging the limits of technology, continuing to develop unprecedented products and solutions, and providing hardware, software, and advanced services that stimulate customer.

■Projectors ■Sound equipment ■Cross-reality-related products

- Stage lighting
- AV devices
- Landscape lighting
- Dimmer equipment and system
- Fiber optic lighting
- Lamps



# Industrial

## Open up the future of industry with solutions linking people and society

Today, industry is in the midst of a major technical revolution with robots, AI, IoT, and Industry 4.0. We recognize these changes as good opportunities to create and deliver new value in ways that link more people and society. We will consistently seek the essence of things and provide solutions leading to the future.

**04** Special Lighting

**05** Exposure, Inspection, Measurement, and Heating

**06** Plastics Solutions

**07** Factory Automation

**USHIO**

 maxRAY

**CHRISTIE**

# 04

## The science of light enriches society and industry

Ushio's light is not only for illuminating objects or spaces. It is now used in more fields, including space, aviation, health care, food, agriculture, fishery and other industries, and as light that contributes to security and life. Integrating important factors such as the wavelength and energy characteristics with our deep understanding of optical design or light distribution technology, which are our strengths, we provide solutions unique to Ushio.



### ■Agriculture Supporting multiple breeds and seeking better efficiency in cultivation

We have developed a radio-controlled high-efficiency lighting unit to meet the need to centrally manage lighting time and optical intensity. It flexibly supports the combination ratio of wavelengths that are effective for plant growth and changes of layouts. In this way, it can provide the best solutions for the growth of a wide variety of breeds in a plant factory. (In a plant factory, Nihon Yamamura Glass)

\*The first radio-controlled LED bar unit for plant growth developed and sold in Japan (according to our investigation, as of September 20, 2014)



## Health care and analysis

### Meeting the high demand for quality in the medical field

Analytical equipment in the medical field, for which quickness and data accuracy are important, requires halogen lamps with a wide wavelength of light. Ushio supports the state-of-the-art medical field with its high-output halogen lamps that make optical control easier with extremely small point-light sources.



## Security

### Invisible light helps make our lives secure

Security cameras are used to maintain a safe society that is comfortable to live in. Their clear imaging requires light that is not visible to the naked eye, i.e., infrared light. At building entrances, roads, ports, rivers and other places, infrared floodlights are installed to help prevent crimes or disasters and they are playing an active role.



## Heating and heat insulation

### Light brings out the best in food

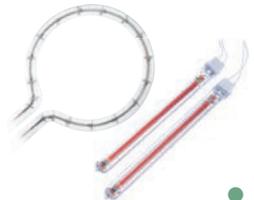
As a clean heat source with high thermal efficiency whose temperature is easy to control, infrared heaters (halogen lamps) are demanded widely in fields ranging from semi-conductors and other advanced industries to heating and cooking. For example, far infrared rays allow a fryer to heat food in a shorter time without losing its taste.



## Fisheries

### LED marine lighting to be both durable and energy saving

Marine lighting requires the strength to withstand a severe environment and energy saving performance to reduce fuel costs. Ushio supports vessel operations and navigation through LED products that make use of the experience and knowledge of meeting user needs accumulated for over 30 years.



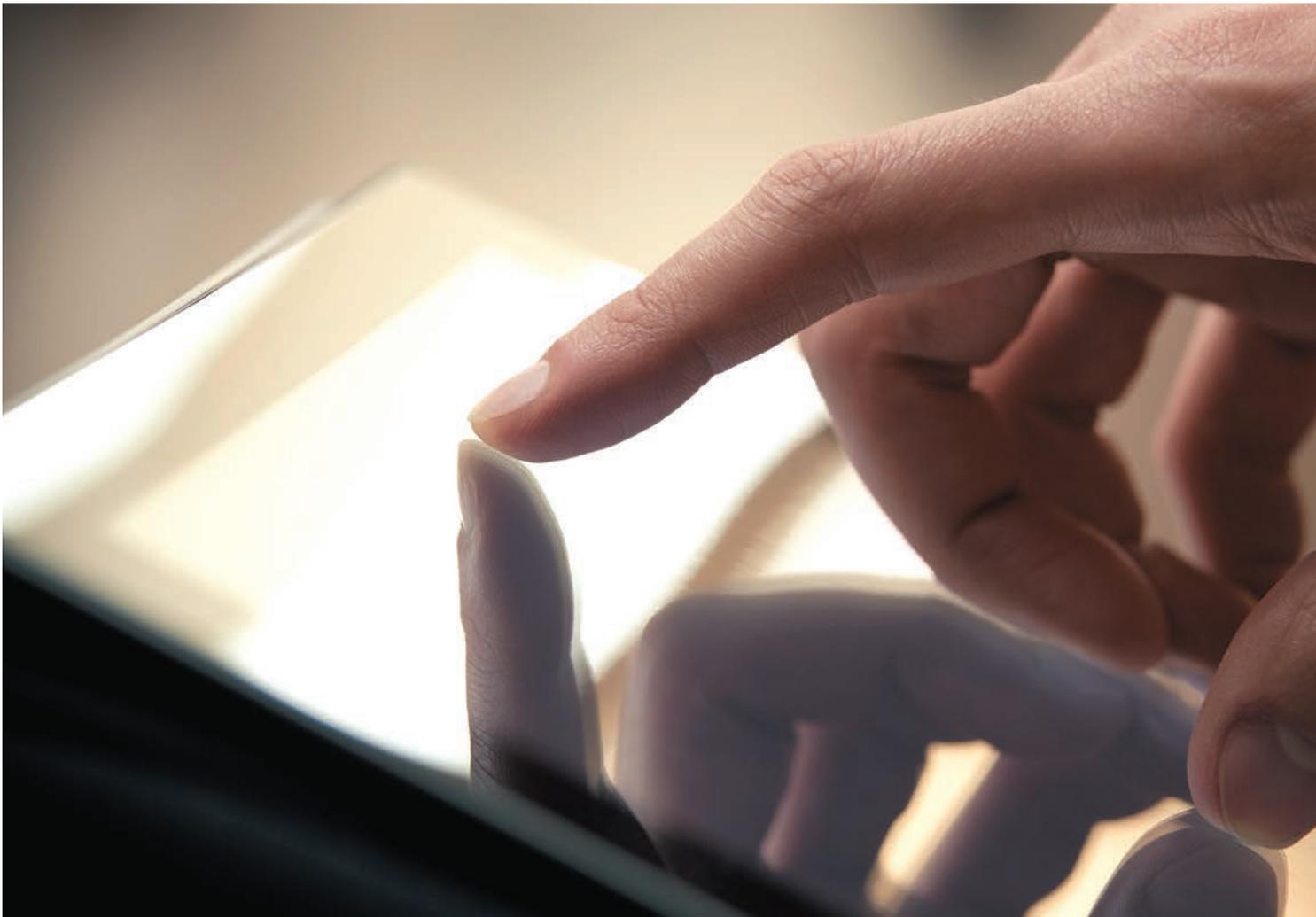
- Plant growth
- Infrared heaters
- Lamps
- Marine and fishery
- Security

# 05

## Support for “smaller, thinner and more precise”

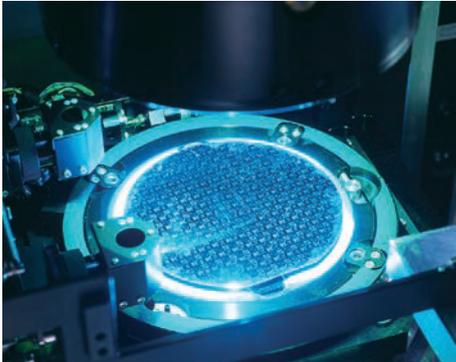
Ushio’s light is also utilized in fields requiring precise light, including electronics. The hurdle to be cleared with customers’ demands becomes higher as technology evolves rapidly.

That is why we customize and provide accurate light and heat based on our knowledge and technologies of light that we have cultivated with halogen lamps, and focus on new developments in the future.



### **■ Precise exposure** Customization driving the evolution of touch panels

Take touch panels, for example. Printing a conductive pattern that codes and transmits the coordinate of a touched location requires an exposure system that is highly precise and can perform corrections according to the elasticity or distortion of the film. Ushio provides unique customized devices meeting these needs based on advanced optical technologies.



## Exposure

### Achieving highly precise automatic exposure independent of operators or experience

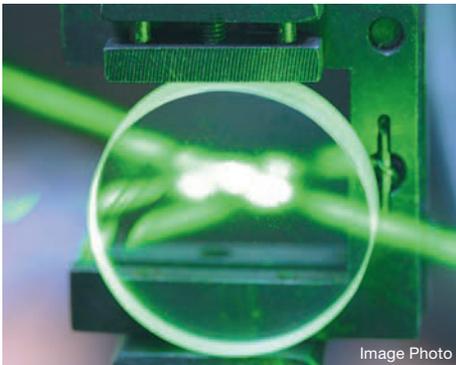
High-throughput exposure with stable precision is vital for manufacturing processes related to electronics. Ushio's exposure system uses its unique transportation robots and image processing to enable fully automatic and precise exposure in which the operator only sets masks and wafers and selects a recipe.



## Screen printing

### Our professional techniques meet the required precision

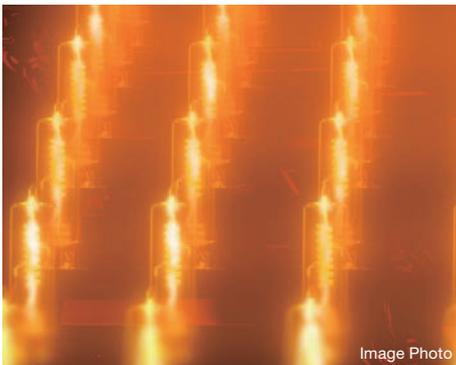
The printing image reproducibility required for screen-printing in printed-wiring, electronic components and flat panel display (FPD) manufacturing is addressed by our specially designed parallel light and light distribution balance. High precision is also ensured by vacuum systems to mitigate the distortion caused by plate frames, and by our unique measures against waste heat to minimize the impacts of heat.



## Optical testing

### Even nano-order areas are not overlooked

The issue with testing and performance evaluation is "how can a process be carried out faster, more accurately and more easily?". Ushio applies light to enable nano-level detection of microscopic objects contactlessly and quickly. It is also effective in research, experiment and durability tests in the areas of solar light, medicine and biotechnology.



## Industrial heating

### Optimal control of heat under a clean environment

Clean rooms in the semi-conductor manufacturing process require high cleanliness. Infrared heaters, which are a clean heat source, are used as heat in wafer processing. Taking advantage of our ability to rapidly raise and lower temperature that other heat sources do not have, they achieve highly precise temperature control.



- Exposure system
- Measurement devices

- Light sources and inspection devices
- Lamps

Image Photo

Image Photo

# 06

## From raw materials to manufacturing, inspection and conveying

Ushio has responded to the changing market and diversified needs with its development abilities that realize unique ideas and flexible system design. We provide one-stop services for any kind of manufacturing by combining proven long-seller products, the latest devices and highly usable systems that are suited to all the processes from raw materials to molding, assembly, inspection and conveying.



### Building the optimal manufacturing line for plastic

A manufacturing line uses materials with properties fitting a purpose, equipment and peripherals that bring out their full performance and can commercialize them, accurate inspection devices, and conveying systems that carry them smoothly. Selection, combination, and systemization of the optimal materials, equipment, devices, or conveying systems is vital to the production line. We propose the best solution by utilizing all we have cultivated.



## Injection molding machines and peripherals

### Considering and realizing the optimal machine configuration together

In the process of injection molding, the combination of molding machines and peripherals impacts quality and production efficiency. We provide one-stop services that other companies cannot offer by communicating well to ensure we understand the usage, conditions and quality of completed products and the production space.



## Mold protection

### Providing "intelligent eyes" to prevent damage to precision molds

The need to prevent mold accidents from occurring that may cause losses in line efficiency and total costs is met by mold protection devices. They protect valuable molds by monitoring them more accurately with the industry's first\* color monitoring. They also monitor them more quickly with digital technology, while stopping and automatically recovering molding machines in the event that a trouble is detected.

\*according to our investigation, as of August 2016



## Plastic fittings and tubes

### Carrying and relaying air or liquid under a clean environment

The supply of air or liquid for cutting-edge devices or in the fields of food and health care needs to clear the restrictions under a clean work environment. Ushio's tubes and fittings are all made of plastic. Because they are sanitary, slim and light, they can support piping and joints in a variety of fields.



## Resins and raw materials

### Supporting the creation of environment-friendly products

While plastic has many advantages, it also has problems such as the use of fossil fuel and the environmental impact at the time of its disposal. So, we provide materials mainly made from used paper. They are widely used as burnable plastic for industrial products.



● Injection molding machines  
● Image inspection devices

● Mold protection devices  
● Tubes and fittings

● Molding materials

# 07

## Engineering based on ideas and ability to make proposals

Ushio's engineering has continued trying to solve problems around the world, centering on the creation and provision of infrastructure that develops the industry. What we value in building infrastructure is engineering that seeks something that has not existed before.

We propose solutions by fully utilizing our total capabilities that integrate hardware and software through creative ideas and technologies, to realize unprecedented devices and systems.



### Line building Enhancing productivity with a total solution

Even if issues can be divided into the automation of work or manufacturing, inspection, and conveying processes, the realization of high efficiency and quality management, and other broad categories, there is no "one size fits all" solution. Ushio provides the optimal solutions based on its unique technologies. We do this by understanding the core part of potential problems through communicating with our customers and customizing hardware and software.



Positioning (attaching, printing, inspection)

## Protecting the design and brand value of beverage packages

Rotary Positioner is a product that meets the need to attach a straw or print an expiration date correctly and quickly on chilled cup beverages. This must be done without damaging the design and brand.



Food production line

## Ideas and systems for high value-added products

Chilled cup beverages are very popular today. It is value added that determines the winner of share competition among their manufacturers. We contribute to increasing added value by proposing systems that automatically insert a sauce bag, gift, or other item between the cup and the cap for differentiation from competitor products.



Packaging and conveying

## Preventing trouble and supporting the final line

Production efficiency improvement and work saving are eternal issues for factory lines. Among them, we focus on "automation from the accumulation to packing and packaging of completed products in the manufacturing line, and provide solutions with "Carton Caser" that achieves them smoothly.



Assembly and palletizing work

## Achieving development and maintaining a good conveying system

A conveying system needs to maintain correct, safe and speedy conveying in a stable state. "Palletizing Robot" has achieved high repeat accuracy through a smooth positioning function. Because it can synchronize a conveying system and various other units perfectly, it has good operability and maintainability.



- Rotary Positioner
- Weight checker
- Bottle inspection machine
- Carton Caser
- Automated assembling machine
- Conveying system

# Idea of customer-oriented “market-in”

In order to meet diversified customer needs in detail, we manufacture “things that are needed, at the time they are needed, and only in the necessary quantity.” We do this with the “market-in” idea of developing and providing products that meet the need from the perspective of our customers, instead of the product-out idea that assumes creating a product.

For this purpose, we continue building and maintaining close and trusting relationships with our customers, firmly keeping “better customer satisfaction” and “continuous improvement” in mind.

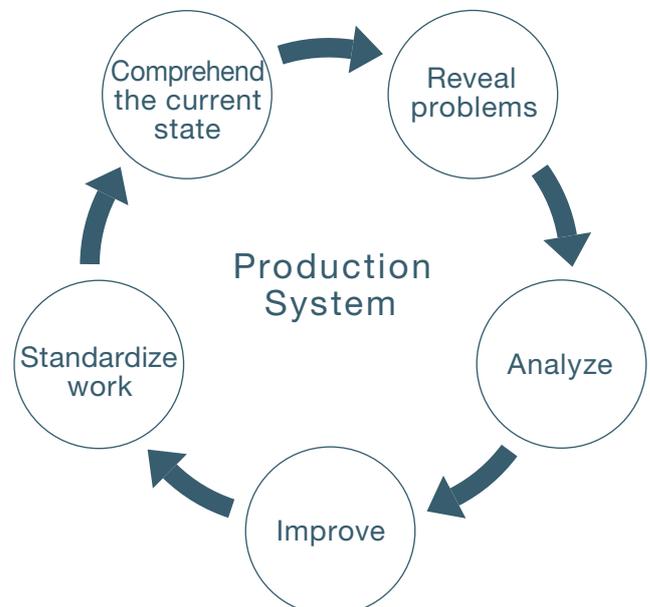
## Better customer satisfaction

We believe that making and offering a product when it is required will be linked to providing high-quality products or services and will thereby improve customer satisfaction. To uphold our belief, we have adopted “manufacturing a variety of products in small amounts” in our own production system for our offered products and services. Specifically, by operating this system, we have reduced lead time and ensured product quality.



## Continuous improvement of the production line

In the production line, we comprehend the existing conditions and identify problems by comparing and analyzing them against the standards. By making further analysis of the present issues, we make improvements and achieve standardization. By always questioning the given situation, we identify the best form of production line and repeat ideal processes. In doing so, we eliminate various unnecessary processes.



## I Corporate Outline

【Incorporation】 March 25, 1963

【Board members】

Chairman and Board of Director	Shiro Ushio
President and Chief Operating Officer	Satoki Oda
Outside Director	Takabumi Asahi
Outside Director	Ryuichi Ishikawa
Outside Auditor	Hideaki Takizawa
Outside Auditor	Nozomu Inoue
Senior Executive Officer	Sadaaki Shimamoto
Senior Executive Officer	Koichi Sasaki
Executive Officer	Tadahiro Obara
Executive Officer	Satoru Moritani
Executive Officer	Hiroharu Kambayashi

【Capital】 ¥100,000,000

【Number of Employees】 392 (as of March 31, 2021)

## I Operations

### Head Office

RBM Higashi Yaesu Building, 2-9-1 Hatchobori  
Chuo-ku, Tokyo 104-0032  
Phone: +81-3-3552-8261 Fax: +81-3-3552-8263

### Fukusaki Division

860-22 Saiji, Fukusaki-cho, Kanzaki-gun  
Hyogo 679-2215  
Phone: +81-790-22-6371 Fax: +81-790-22-6502

### Tsukuba Division

5-2-4 Tokodai, Tsukuba-shi, Ibaraki 300-2635  
Phone: +81-29-847-7421 Fax: +81-29-847-8475

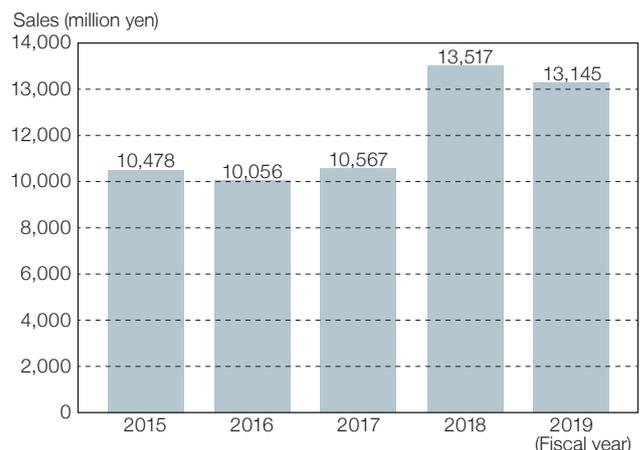
### Osaka Division

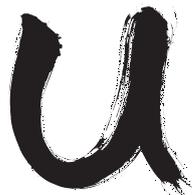
6-5-32 takaidanishi, Higashiosaka-shi, Osaka 577-0067  
Phone: +81-6-6782-6066 Fax: +81-6-6785-2020

## I History

March	1963	Established JAPAN SEALANTS, INC.
May	1966	Established JAPAN XEBEX, INC.
April	1981	Merged JAPAN SEALANTS, INC. and JAPAN XEBEX, INC., changed the company name to U-TECH, INC. (Later, changed its name to USHIO U-TECH, INC.)
June	1983	Established HYOGO USHIO ELECTRIC, INC. as a production subsidiary of USHIO INC.
June	1990	Established USHIO MARINE, INC.
October	1992	Merged HYOGO USHIO ELECTRIC, INC. and Lighting Division of USHIO INC. into USHIO LIGHTING, INC.
April	2000	Merged USHIO MARINE, INC. into USHIO U-TECH, INC.
April	2004	Merged USHIO U-TECH, INC. and USHIO LIGHTING, INC., changed the company name to USHIO LIGHTING, INC.
April	2015	Acquired MAXRAY INC.
April	2017	Established Ushio Entertainment Holdings, Inc. Made three Ushio Group companies —USHIO LIGHTING, INC., XEBEX INC., and MAXRAY INC. —its subsidiaries
April	2018	Merged MAXRAY, INC. into USHIO LIGHTING, INC. Take over entire business in Japan from Christie Digital Systems USA, Inc.

## I Trends of business results





U S H I O  
ENTERTAINMENT

**USHIO LIGHTING, INC.**

RBM Higashi-Yaesu Bldg., 2-9-1 Hatchobori, Chuo-ku, Tokyo 104-0032  
Phone +81-3-3552-8261

[www.ushiolighting.co.jp/en/](http://www.ushiolighting.co.jp/en/)



FSC®-certified paper and plant-derived ink were used to produce this company brochure. In addition, a computer-to-plate (CTP) system was used in the typesetting process so that intermediate materials could be phased out, and this brochure has been printed using waterless printing.