



LED and Laserdiodes for industrial
and medical application

USHIO at a glance

*Predecessor company founded in **1916**, renamed as **USHIO** in **1952**, incorporated in **1964***



— Total global sales of € 1.5 billion (2018)



— 5.886 Employees



— 57 Branch offices



— 17 Production sites

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USHIO

USHIO Worldwide

Locations and production sites of Ushio

Europe

- USHIO EUROPE B.V
- USHIO FRANCE S.A.R.L
- USHIO DEUTSCHLAND GmbH
- USHIO U.K.,LTD
- BLV Licht – und Vakuumtechnik GmbH
- USHIO POLAND Sp. zo. o.

Americas

- ● USHIO AMERICA, INC.
- ● NECSEL INTELLECTUAL PROPERTY, INC.
- CHRISTIE DIGITAL SYSTEMS USA, INC.
- ● CHRISTIE DIGITAL SYSTEMS CANADA, INC.
- CHRISTIE DIGITAL SYSTEMS MEXICO S.de R.L.de C.V.
- CHRISTIE DIGITAL SYSTEMS SOUTH AMERICA LTDA.
- ● CHRISTIE MEDICAL HOLDINGS, INC.
- EVENT AUDIO VISUAL GROUP, INC. d.b.a. NATIONWIDE WHOLESALE VIDEO INC.

Asia Pacific

- | | | |
|--------------------------------------|---|--------------------------------------|
| ● USHIO ASIA PACIFIC PTE LTD. | ● ● USHIO (SHAOGUAN) CO., LTD. | ● ● USHIO LIGHTING, INC. |
| ● USHIO ASIA PACIFIC (THAILAND) LTD. | ● USHIO (GUANGZHOU) CO., LTD. | ● XEBEX INC. |
| ● USHIO TAIWAN, INC. | ● USHIO PHILIPPINES, INC. | ● ● ADTEC Engineering CO., LTD. |
| ● USHIO KOREA, INC. | ● ● USHIO Medical Technology (Suzhou) Co., LTD. | ● ● PROTOSERA INC. |
| ● USHIO HONG KONG LTD. | ● CHRISTIE DIGITAL SYSTEMS (SHANGHAI) LTD. | ● ● USHIO OPTO SEMICONDUCTORS, INC. |
| ● USHIO SHANGHAI, INC. | ● ● CHRISTIE DIGITAL SYSTEMS (SHENZHEN) CO., LTD. | ● ● Sunsorit Co., Ltd. |
| ● USHIO SHENZHEN, INC. | ● CHRISTIE DIGITAL SYSTEMS AUSTRALIA PTY. LTD. | ● USHIO ENTERTAINMENT HOLDINGS, INC. |
| ● USHIO ASIA TRADING LTD. | ● CHRISTIE DIGITAL SYSTEMS INDIA PVY. LTD. | |
| ● ● USHIO (SUZHOU) CO., LTD. | ● CHRISTIE DIGITAL SYSTEMS (HONG KONG) LTD. | |

● Sales
● Production

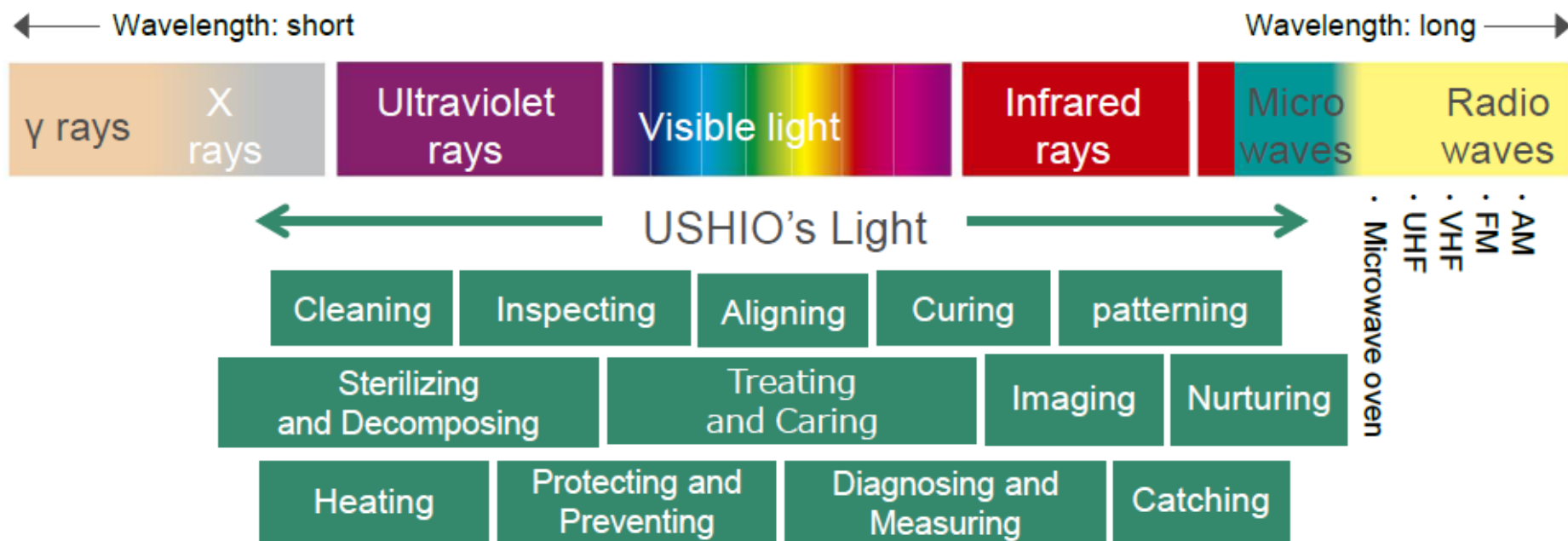
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USHIO

World-Proud USHIO's Industry Lights

*“Using light as illumination and as energy, we create a new market for light”
— from the company's inaugural business policy*



The variegated functions of light as energy



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Products

LED & Laserdiodes for industrial and medical application

Wavelength : **UV 400nm** ~ **IR 850nm**

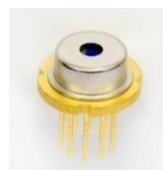
Power : High **3500mwclass** ~ Low **5mW class**

LD

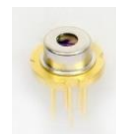
Multi
beam LD



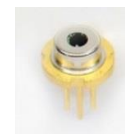
(F16mm)



(F9mm)



(F5.6mm)



(F5.6mm)

Standard
LD
(single beam)



(F9mm)



(F5.6mm)



(F5.6mm)



(F3.8mm)

Wavelength : **UV 365nm** ~ **IR 1,750nm**

Power : High **1,400mwclass** ~ Low **1mW class**

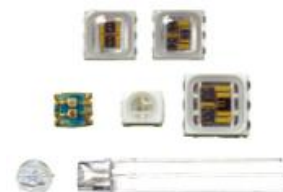
LED



High Power TOP LED



Surface Mount LED



Multi-Chips



FL Type



SG Type



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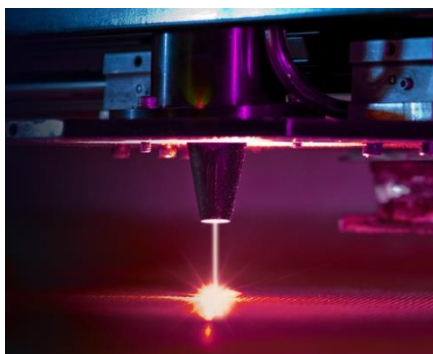
Focus Applications

Eight major application fields for Ushio SSL products

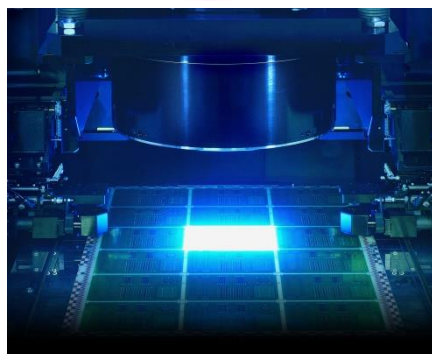
Display &
Entertainment



Materials
processing



Lithography



Printing



Sensing &
Measurement



Automotive &
ITS



Medical &
Health care



Life Science



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Thank you
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attention

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