



## UV-C Product Catalog

**STANLEY ELECTRIC CO., LTD.**



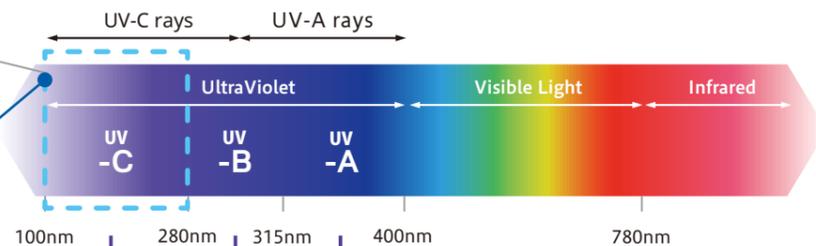
## Providing safe environment through the most efficient UV light for all

A&NUV is a UV product brand of Stanley Electric, which pursue the disinfection effect of bacteria and viruses by applying the advanced optical technology and LED package design with manufacturing technology cultivated through the development of automobile headlamps and other products. Through A&NUV, Stanley Electric will supply devices with UV light source that meet customers' requirements. Expanding the range of applications, aiming to achieve a safe everyday life for everyone.

### UV disinfection mechanism

The light that reaches the earth from the sun is mostly visible light and infrared (IR) light. In comparison, ultraviolet (UV) light is 5 ~ 6%. There are three types of UV light: UV-A, UV-B, and UV-C. UV-A and UV-B generally reaches the surface of earth, while UV-C does not. And they have no daily effects to our body. On the other hand, UV-C is considered to possess highest effect of all the UV light in disinfecting bacteria.

UV-C (wavelength of 100~280nm) has a wide range of functions such as "disinfection," "decomposition of organic substances," and "sensing".

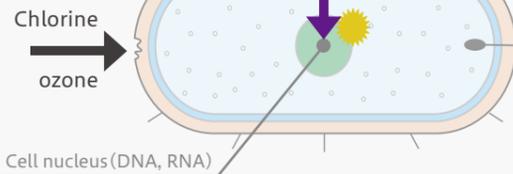


Ozone layer: Nearly 90% of the UV rays reaching the surface of the earth are UV-A

Surface

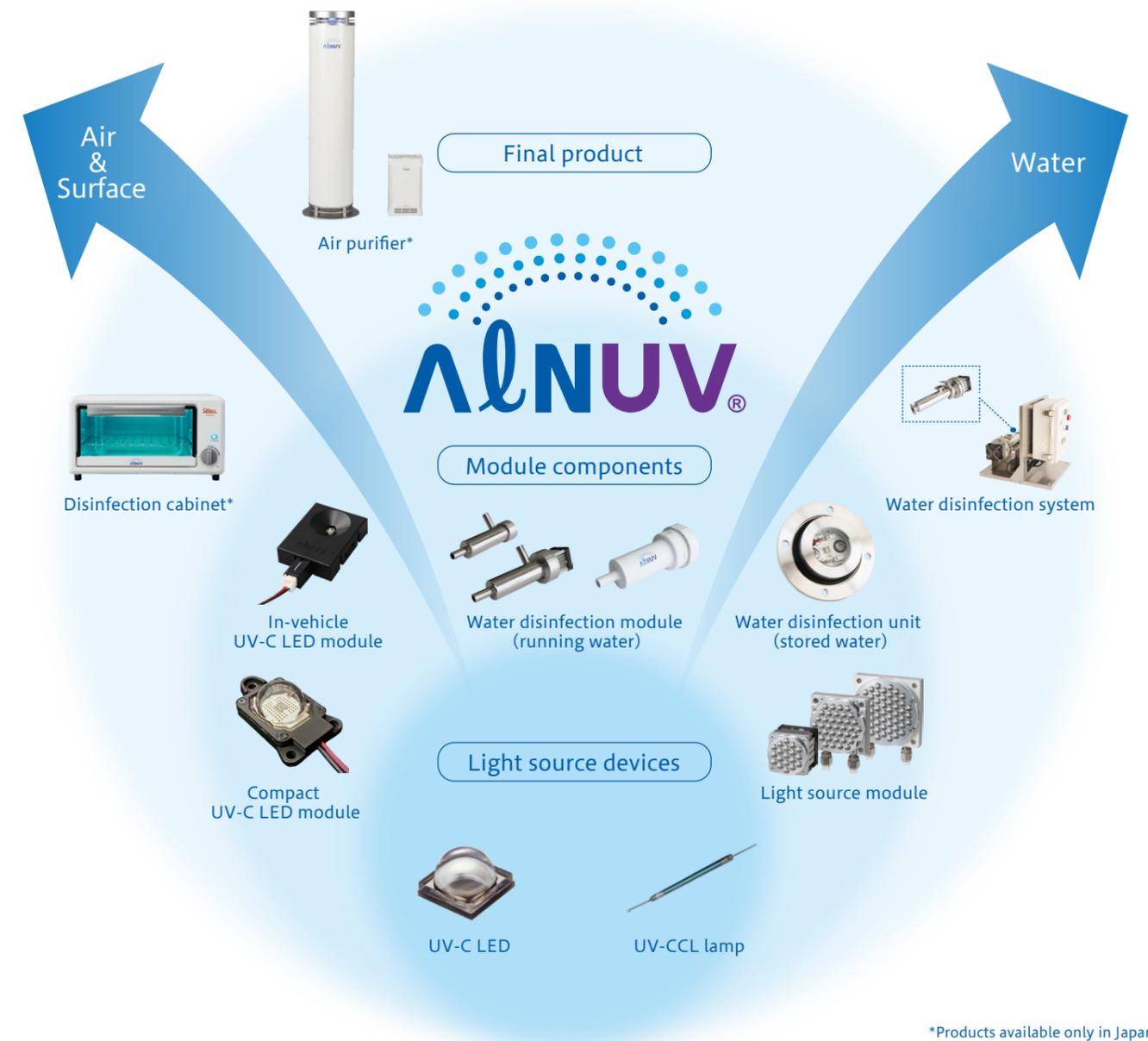
#### Bacteria

Chlorine and ozone cannot reach inner cell layers.



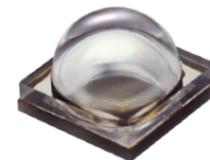
Bacteria and viruses grow by infection and multiplication, leading to disease symptoms. The copy function necessary for this multiplication is possessed by DNA and RNA. By causing DNA and RNA to absorb UV light, bacteria and viruses lose their copying function and their multiplication can be prevented (inactivated).

We not only provide individual devices, but also provide a wide range of products including modules (semi-finished products) and finished products based on these devices.



\*Products available only in Japan

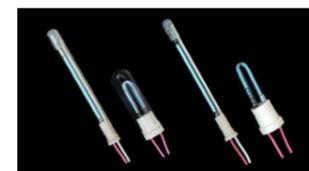
### UV-C LED



#### Features

- Equipped with 265nm UV-C LEDs that have high disinfection effect for viruses and bacteria
- Product lineup with a wide variety of outputs to match the application needs (50mW to 200mW)
- High reliability (hermetically sealed package to resist high-humidity environments, long life L70/10,000 hours)

### UV Cold cathode lamp (UV-CCL)



#### Features

- Long life (30,000 to 50,000 hours)
- High reliability (highly resistant to vibration and ON/OFF lighting)
- Small size: Enables compact product design

AℓNUV\_Aqua

## [Small flow] ULR1B/2B, 4B/6B, UV-C LED reactor

### Applications

Pure water system, Industrial machinery, Water purifier, Water dispenser, Medical equipment, etc.

### Features

- Equipped with in-house 265nm UV-C LED (mercury-free)
- High disinfection performance with our unique water rectification mechanism and light distribution technology
- On-Demand operation is available.
  - Achieves high disinfection effect instantly after power supply is started.
  - No deterioration of lifespan due to on/off operation.
- Compatible with replacement of only the light source part
- Durable, elution-free SUS housing is used



Product No.	Max water flow(L/min)	UV dose(mJ/cm <sup>2</sup> )*1	Fittings (inch)
ULR1B	8 (2.0m/s)	10 (@2.0L/min)	1/2
ULR2B	8 (2.0m/s)	10 (@4.7L/min)	1/2
ULR4B	8 (2.0m/s)	10 (@9.0L/min)	1/2
ULR6B	8 (2.0m/s)	10 (@15.3L/min)	1/2

\*1 UV transmittance 98%, Typical value measured by biosimulator using Bacteriophage Qβ (Initial Performance)

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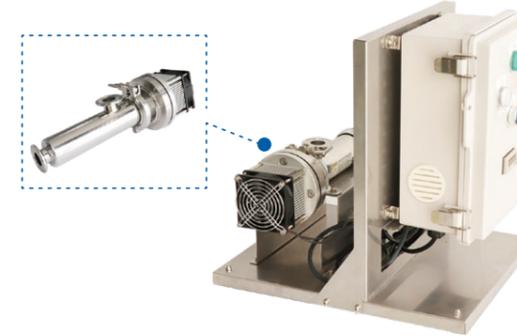
## [Medium-Large flow] ULR9C/S, 36C/S, 54C/S, UV-C LED system

### Applications

Pure water system, Industrial water equipment, Small water plant equipment, etc.

### Features

- Equipped with in-house 265nm UV-C LED (mercury-free)
- High disinfection performance with our unique water rectification mechanism and light distribution technology
- On-Demand operation is available.
  - Achieves high disinfection effect instantly after power supply is started.
  - No deterioration of lifespan due to on/off operation.
- Control system is available by power supply box
- Reactor section can be disassembled for maintenance



Product No.	Max water flow(L/min)	UV dose (m3/h) at 254nm equivalent *1	Fittings (inch)
ULR9C/S	2.0 (2.0m/s)	30 (@1.6m <sup>3</sup> /h) 40 (@1.2m <sup>3</sup> /h)	1S Ferrule
ULR36C/S	15 (2.0m/s)	30 (@7.2m <sup>3</sup> /h) 40 (@4.4m <sup>3</sup> /h)	(50A) Flange
ULR54C/S	28 (2.0m/s)	30 (@15.5m <sup>3</sup> /h) 40 (@9.6m <sup>3</sup> /h)	(65A) Flange

\*1 ULR9C: IF=200mA, ULR36C/54C: IF=300mA  
\*2 UV transmittance 95%, Indicator bacteria: Bacillus subtilis spores and bacteriophage Qβ (converted to 254nm wavelength)

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## [Small flow] ULR24A, UV-C LED resin reactor

### Applications

Water purifiers, water dispensers, water heaters, aquariums, etc.

### Features

- Equipped with in-house 265nm UV-C LED (mercury-free)
- High disinfection performance with our unique water rectification mechanism and light distribution technology
- On-Demand operation is available.
  - Achieves high disinfection effect instantly after power supply is started.
  - No deterioration of lifespan due to on/off operation.
- Achieved industry-leading low pressure loss
- Option: Attachment of flow sensor



Contact us to learn more about our NSF Certified Products

Product No.	Max water flow(L/min)	UV dose(mJ/cm <sup>2</sup> )*1	Fittings (inch)
ULR24A	8 (2.0m/s)	10 (@5.9L/min)	1/2

\*1 UV transmittance 98%, Typical value measured by biosimulator using Bacteriophage Qβ (Initial Performance)

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## [Stored water] ULM1B, UV-C LED unit

### Applications

Water disinfection for storage tank application (ex: Drink dispenser, humidifier, etc.)  
Surface disinfection of sanitary products, stationery, cooking utensils, etc.

### Features

- Equipped with in-house 265nm UV-C LED (mercury-free)
- On-Demand operation is available.
  - Achieves high disinfection effect instantly after power supply is started.
  - No deterioration of lifespan due to on/off operation.
- High durability (SUS housing without UV degradation : no odor transfer to water)
- Compact & simple installation (can be screwed on from above)



Product No.	ULM1B
Power consumption	1.7W
UV output	0.02W
Outer diameter of light source	ca. φ32mm
Cooling method	Natural air cooling

# Surface disinfection AℓNUV\_Pure series

AℓNUV\_Pure

## Compact UV-C LED module



### Applications

Tank water disinfection, air purifiers, air conditioners, etc.

### Features

- Equipped with in-house 265nm UV-C LED (mercury-free)
- Tank water disinfection application/pinpoint surface disinfection
- Compact and easy installation
- Waterproof construction (equivalent to IP54)

Product No.	ULM0008A
UV output	15.8mW
Operating Environment	Temperature : - 25°C~ 60°C
Size	ca. φ32mm

AℓNUV\_Pure

## In-vehicle UV-C LED module



### Applications

A module as an option part, to make center console box or glove box to a disinfection box for drivers' /passengers' belongings.

### Features

- Equipped with in-house 265nm UV-C LED (mercury-free)
- Automotive qualified
- Small size & short time disinfection/equipped with lighting circuit

Product No.	UCM-1A
UV output	6.5mW (No heat dissipation)
Operating Environment	Temperature : - 30°C~ 70°C
Size	W35 × L58 × H11mm



# STANLEY

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information

