

# UV-C LED

**Is it possible  
to sanitize  
environments and  
surfaces using  
UV-C LEDs?**



## LED UV-C

Nowadays the sterilization of environments and surfaces has become fundamental in all aspects of daily life.

From this viewpoint the UV-C LEDs represent one of the most efficient solutions for sterilization of air, water and surfaces.

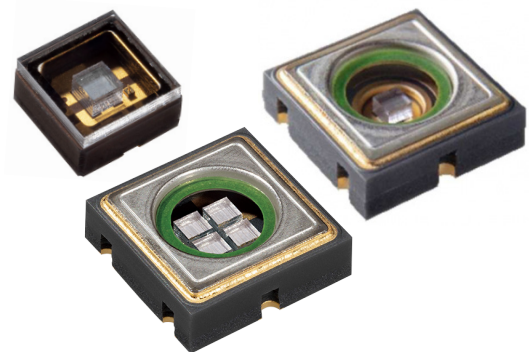
A completely safe technology which, by destroying the DNA of viruses, bacteria, fungi and molds prevents their reproduction, helping to contain the risk of infections. It has been shown that UV-C LEDs radiations, between 200 and 280nm, inactivate and kill the most common viruses and

bacteria present in daily life, such as Salmonella, E.Coli and the recent SARS-CoV-2 responsible of Covid-19.

For this reason the UV-C LEDs are suitable for the application in different sectors such as skin treatments, horticulture, medical, transportation, food and pharmaceutical transformation.

Welt Electronic offers a wide range of high-quality and high reliability UV-C LED solutions designed for the application in many different industrial and lighting sectors.

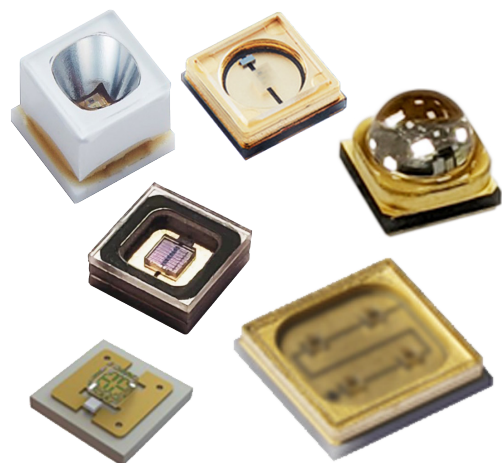
## Nichia



UV-LEDs require unique and delicate production process. Nichia places strict controls from wafer manufacturing to final inspection. For more than 20 years, Nichia UV-LEDs have been chosen by demanding customers that require rigorous quality such as high precision curing, ink curing (printing), bill checker, surface, water and air treatments and disinfection.

NC4U334BRT-U280 200mW (@350mA-22,5V) - 280nm - 110° - 6,8x6,8x2,12  
NCSU334BT-U280 70mW (@350mA-5,5V) - 280nm - 115° - 6,8x6,8x2,12  
NCSU434BT-U280 62mW (@350mA-5,7V) - 280nm - 110° - 3,5x3,5x1,72  
NCSU434AT-U280 17,5mW (@100mA-5,3V) - 280nm - 110° - 3,5x3,5x1,72

## Lextar



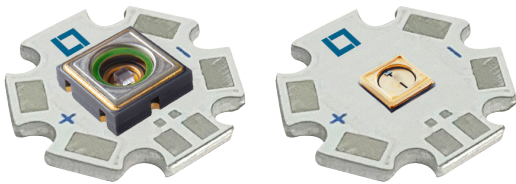
PU35CL1-V1-U0270 3,5mW (@20mA-5,8V) - 275nm - 125° - 3,55x3,55x1,72  
PU35CM1-V3-U0270 15mW (@100mA-5,8V) - 275nm - 125° - 3,55x3,55x1,72  
PU35CM1-V3-U0260 15mW (@100mA-5,8V) - 265nm - 125° - 3,55x3,55x1,72  
PU35CM1-V6-U0270 14mW (@100mA-5,8V) - 275nm - 60° - 3,50x3,50x3,0  
PU35CM2-V0-U0270 12mW (@100mA-5,8V) - 275nm - 35° - 3,85x3,85x3,1  
PU35CM3-V0-U0270 28mW (@200mA-5,6V) - 275nm - 125° - 3,55x3,55x1,72  
PU35CM7-V0-U0270 28mW (@200mA-5,8V) - 275nm - 125° - 3,55x3,55x1,72  
PU35CH1-V0-U0270 50mW (@350mA-5,6V) - 275nm - 125° - 3,55x3,55x1,72  
PU35CH1-V0-U0260 45mW (@350mA-5,6V) - 265nm - 125° - 3,55x3,55x1,72  
PU35CH1-V1-U0280 80mW (@350mA-6,1V) - 280nm - 140° - 3,50x3,50x1,11  
PU35CH2-V0-U0270 50mW (@350mA-5,5V) - 275nm - 125° - 3,50x3,50x1,70  
PU68CH1-V0-U0270 70mW (@500mA-5,9V) - 275nm - 125° - 6,8x6,8x1,83  
PU68CH1-VX-U0270 200mW (@1400mA-5,9V) - 275nm - 125° - 6,8x6,8x1,83  
[Q4 2021]

## Harvatek



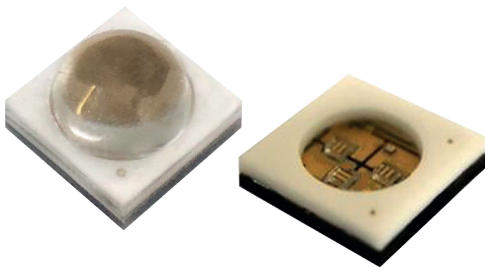
Drinking water can be easily contaminated by pathogens like bacteria, protozoa and viruses. The water disinfection is a fundamental part in the treatment of water. Our products are designed with a proven lighting technology, they are energy saving and eco-friendly as well. The UV-C LED air purifier can kill viruses and bacteria.

## Lux Lucis



LUX LUCIS offers UV-C LED modules designed with highly dissipative materials and completely customized in dimension, LED wheelbase and total radiant power. Possibility to realize spot or driven strips in 12/24Vdc voltage and different dimensions and shapes modules as well. Suitable with NICHIA, LEXTAR and CT MICRO components depending on the required application type. Suitable with a wide range of LEDiL optics.

## CT Micro



The UV-C LEDs designed by CT Micro contribute to make safer all the environments and the surfaces ensuring maximum sterilization from viruses and bacteria.

UVK5050Q11-B20 32mW (@100mA-20V) - 275nm - 120° - 5,0x5,0x1,1  
UVK5050O37-G0 30mW (@100mA-20V) - 275nm - 60° - 5,0x5,0x3,7

## Ledil



Violet is the new optic specially designed for UV-C LED applications. It's composed by a unique silicone to allow a higher UV ray transmission and an outstanding beam control. Suitable with NICHIA LEDs.



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