

UV-C LED

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



 **NICHIA**

Lextar

HARVATEK

**LUX
LUCIS**

 **CT Micro**
International Corporation

LEDiL[®]

 **BOLB**

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.

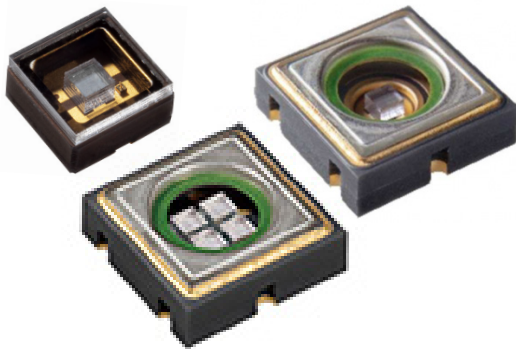
A completely safe technology which, by destroying the DNA of viruses, bacteria, fungi and molds prevents their reproduction, helping to contain the risk of infections. It has been shown that UV-C LEDs radiations, between 200 and 280nm, inactivate and kill the most common viruses and

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



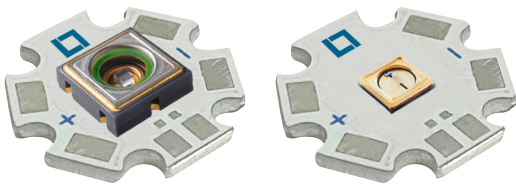
PU35CL1-V1-U0270 3,5mW (@20mA-5,5V) - 275nm - 125° - 3,55x3,55x1,72
PU35CM1-V3-U0270 14mW (@100mA-5,5V) - 275nm - 125° - 3,55x3,55x1,72
PU35CM1-V6-U0270 14mW (@100mA-5,5V) - 275nm - 60° - 3,50x3,50x3,0
PU35CM2-V0-U0270 12mW (@100mA-6,0V) - 275nm - 35° - 3,85x3,85x3,1
PU35CM3-V0-U0270 24mW (@200mA-6,0V) - 275nm - 125° - 3,55x3,55x1,72
PU35CM4-V0-U0270 20mW (@200mA-6,0V) - 275nm - 35° - 3,85x3,85x3,1
PU35CM7-V0-U0270 25mW (@200mA-6,4V) - 275nm - 125° - 3,55x3,55x1,72
PU35CH1-V0-U0270 50mW (@350mA-6,0V) - 275nm - 125° - 3,55x3,55x1,72
PU68CH1-V0-U0270 60mW (@500mA-6,4V) - 278nm - 125° - 6,8x6,8x1,63
PU35CH1-V1-U0270 100mW (@500mA-6,0V) - 275nm - 125° - 3,55x3,55x1,72

Harvatek



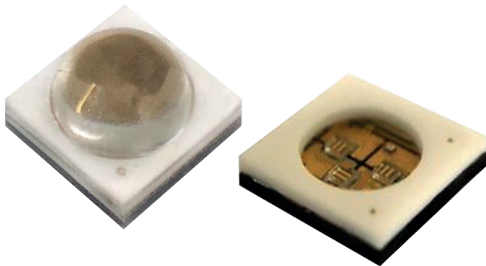
Drinking water can be easily contaminated by pathogens like bacteria, protozoa and viruses. The water disinfection is a fundamental part in the treatment of water. Our products are designed with a proven lighting technology, they are energy saving and eco-friendly as well. The UV-C LED air purifier can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

Bolb



Bolb, Inc. is the new reliable UV-C LED partner specialized in germicidal LED (GLED) which offers significantly higher performance than similar products from other manufacturers and ensures the sterilization of air, water and surfaces. Modules available on request.

S3535-DR100-W275-P40-V6.5 40mW (@100mA-6,5V) - 275nm - 150° - 3,5x3,5x0,9
S6060-DR250-W275-P100-V6.5 100mW (@250mA-6,5V) - 275nm - 150° - 6,0x6,0x1,35
S6060TL-DR250-W275-P90-V6.5 90mW (@250mA-6,5V) - 275nm - 40° - 6,0x6,0x3,4

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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