

# Light is protecting

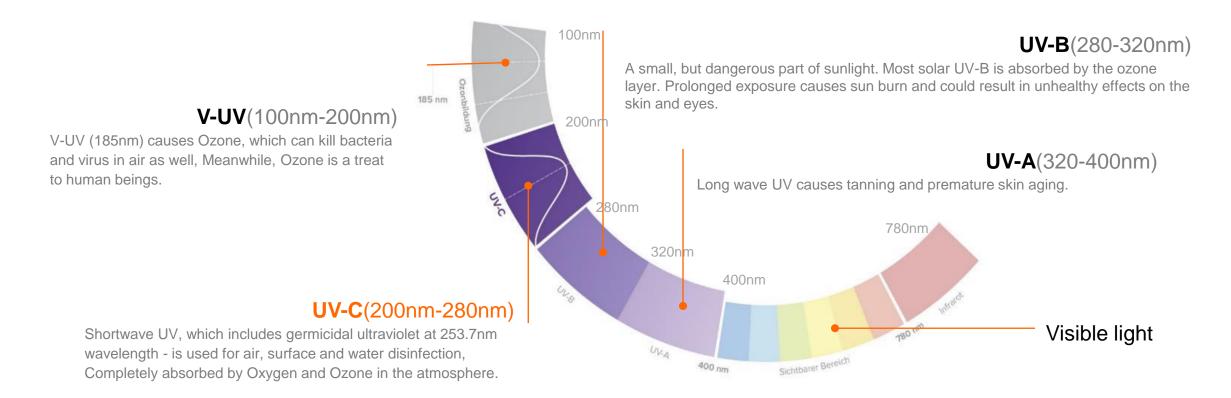
AirZing<sup>TM</sup> – powered by OSRAM UV (HNS) Jiaming.HE (DI MC IND) | Updated on March 10, 2020



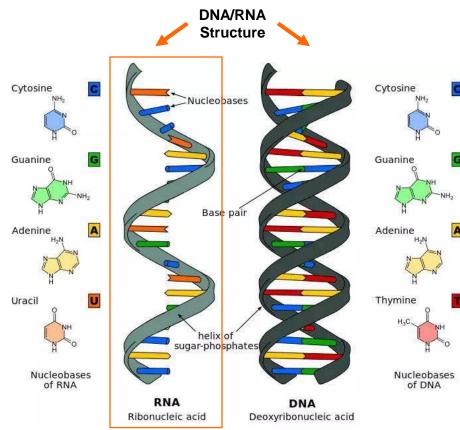


## UV-C is proved a mature technology of killing micro-organisms efficiently

- As we all know, UV is part of sun light, which is an easy way of surface cleaning in our daily life.
- UV is a sort of invisible electromagnetic radiation, with wave length between 100-380nm.
- The very first artificial UV light source was introduced to the world in Germany 200 years ago.

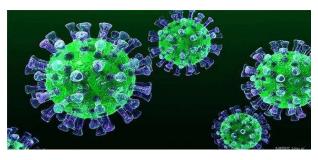


## How does UV-C kill micro-organisms(bacteria and virus)



The cell nucleus of micro-organisms(bacteria and virus) contains thymine, a chemical element of the DNA / RNA. This element absorbs UV-C at a specific wavelength of 253.7 nm and changes to such an extent (formation of thymine dimers) that the cell is no longer capable of multiplying and surviving.

- UV-C (253.7nm) penetrates the cell wall of the micro-organism
- The high energy photons of the UV-C are absorbed by the cell proteins and DNA / RNA
- UV-C damages the protein structure causing metabolic disruption
- DNA/RNA is chemically altered so organisms can no longer replicate
- Organisms are unable to metabolize and replicate, CAN'T cause disease or spoilage







Coronavirus (SARS-CoV-2) has typical RNA structure

#### Comparison

V-UV(185nm) also kill micro-organisms as well, but causes Ozone accordingly which is harmful for human beings. It is used for more industrial applications. UV-C is safer.



# UV-C can kill Coronavirus (SARS-CoV-2)



王生资 生費料 要源 新闻

无肺炎表现

多在发病一周后 出现呼吸困难和 或低氧血症

严重者可快速 进展为: ·急性呼吸窘迫综合! ·原毒症休克 ·多弱官功能衰竭等

重型、危重型患者 病程中可为中低# 甚至无明显发热

潜 伏 <sup>多为3-7天</sup>

的内容, 其余内容

重症

感染的患者 无症状感染 也可能成为 传染源 飞沫传播

密切接触传播 在相对封闭的环境 中长时间暴露于#

# **AirZing<sup>™</sup>** – powered by OSRAM UV (HNS)



# AirZing<sup>™</sup> ECO



\*IR Sensor and Delay Starting is not available

Product name	AirZing <sup>™</sup> ECO
Input Voltage	220V±10%
Input Current	0.14A
Output Current	360 mA
System Wattage	33 W
lamp Wattage	30 W
Power Factor	> 0.9
THD	< 20%
UV-C Output (253.7nm)	11-12W
Initial UV-C irradiance	>1.2 W/m² @1M
UV-C irradiance @ 9000 hrs	>0.96 W/m <sup>2</sup> @1M
Lamp life time	9,000 Hrs
Warranty	1 Year
Dimention	L929mm/W54mm/H78mm
Weight	1.1kg (net)/1.7kg(package)
Operation Temperature	-10 °C~ 35 °C
Storage Temperature	-20 °C~ 60 °C

# AirZing<sup>™</sup> PRO



Efficient	Precise	Premium	Powerful	Smart	Safe
99.9% Sterilization efficiency	<b>253.7nm</b> UV wave length	<b>0</b> Ozone Emmitior	<b>360°</b> Coverage Area	IR Sensor	<b>30s</b> Delay Starting

Product name	AirZing <sup>™</sup> PRO
Input Voltage	220V±10%
Input Current	0.19A
Output Current	430 mA
System Wattage	40 W
lamp Wattage	36 W
Power Factor	> 0.9
THD	< 20%
UV-C Output (253.7nm)	14-15W
Initial UV-C irradiance	1.4 W/m² @1M
UV-C irradiance @ 9000 hrs	>1.24 W/m <sup>2</sup> @1M
Lamp life time	9,000 Hrs
Warranty	3 Years
Dimention	L1363mm/W54mm/H78mm
Weight	1.5kg (net)/2.2kg(package)
Operation Temperature	-10 °C~ 35 °C
Storage Temperature	-20 °C~ 60 °C

## AirZingTM can be used in ...



Apartment/Private house











**Bus/Train Station** 



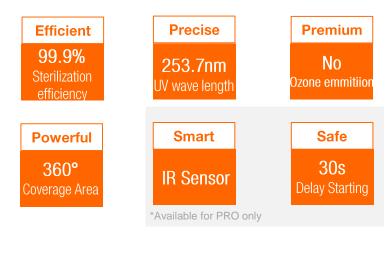






#### Light is protecting

AirZing<sup>™</sup> – powered by OSRAM UV (HNS)





33W (30 W HNS)

Dimension 929 mm x 54 mm x 78 mm 1.1kg (net)/1.7kg(package)

AirZing<sup>™</sup> - ECO



AirZing<sup>™</sup> - PRO

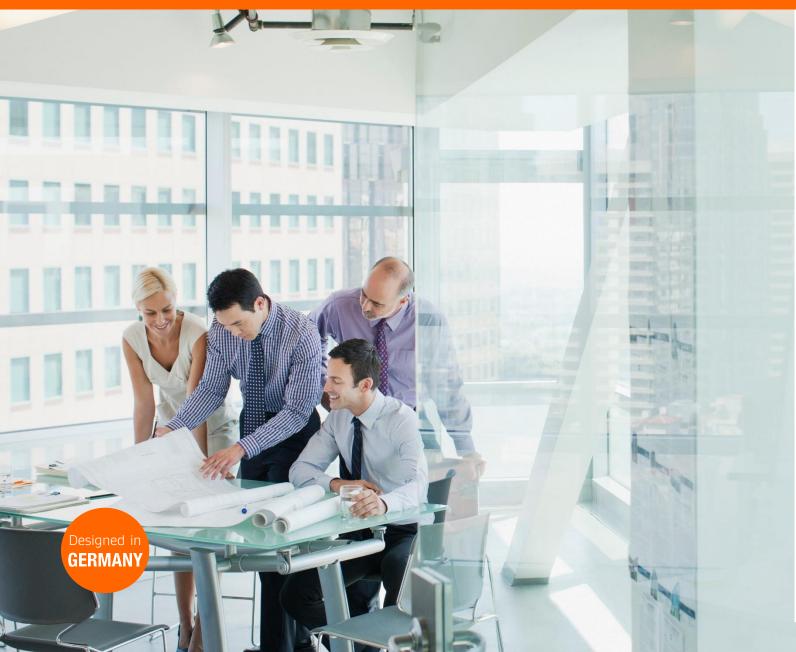
40 W (36 W HNS) Power Dimension 1363 mm x 54 mm x 78 mm 1.5kg (net)/2.2kg(package) Weight

#### Light is OSRAM

Power

Weight





#### Light is protecting

AirZing<sup>™</sup> – powered by OSRAM UV (HNS)



## **OSRAM**



CHILLING .

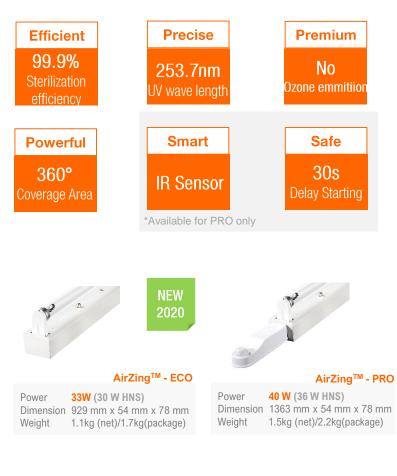
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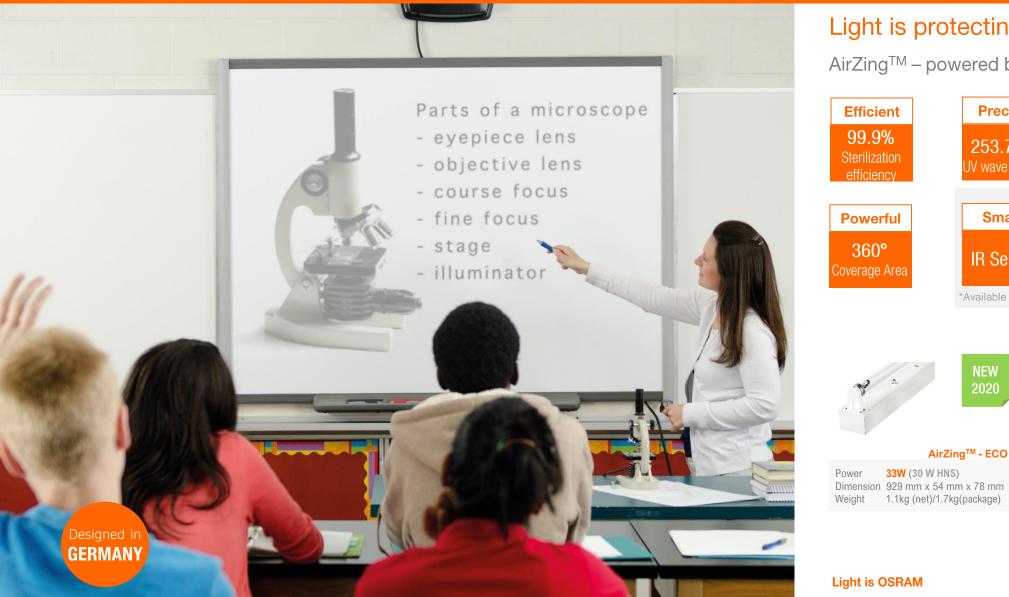
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AirZing<sup>™</sup> – powered by OSRAM UV (HNS)

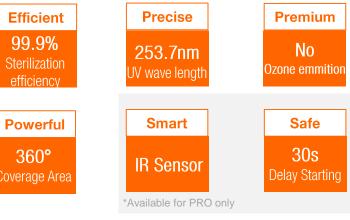


**OSRAM** 



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**OSRAM** 

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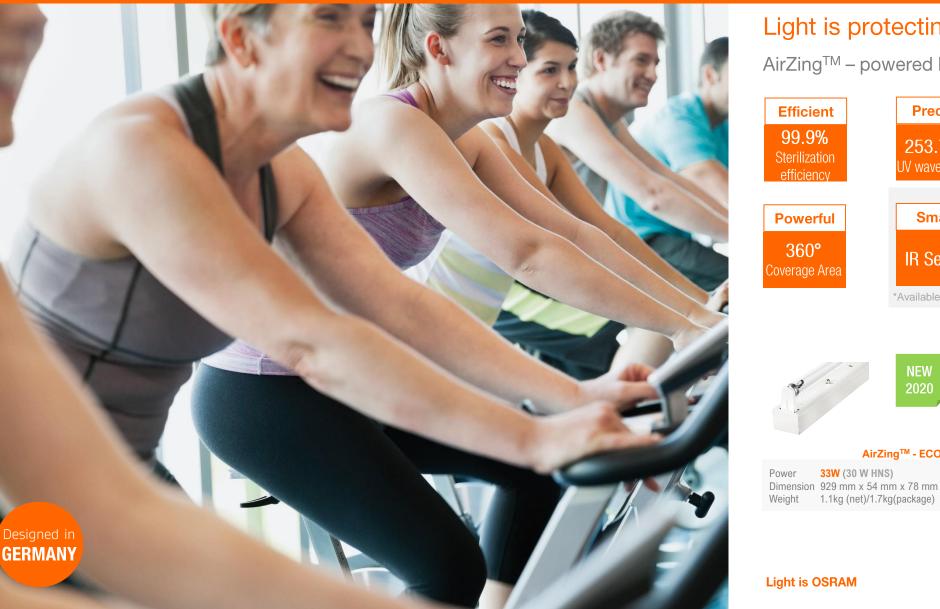
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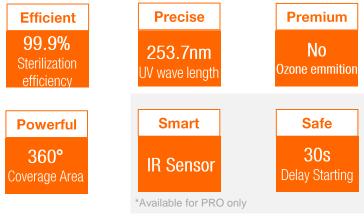
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AirZing<sup>™</sup> - PRO 40 W (36 W HNS)

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AirZing<sup>™</sup> - ECO



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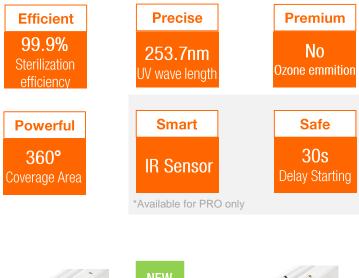
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NEW 2020

AirZing<sup>™</sup> - ECO

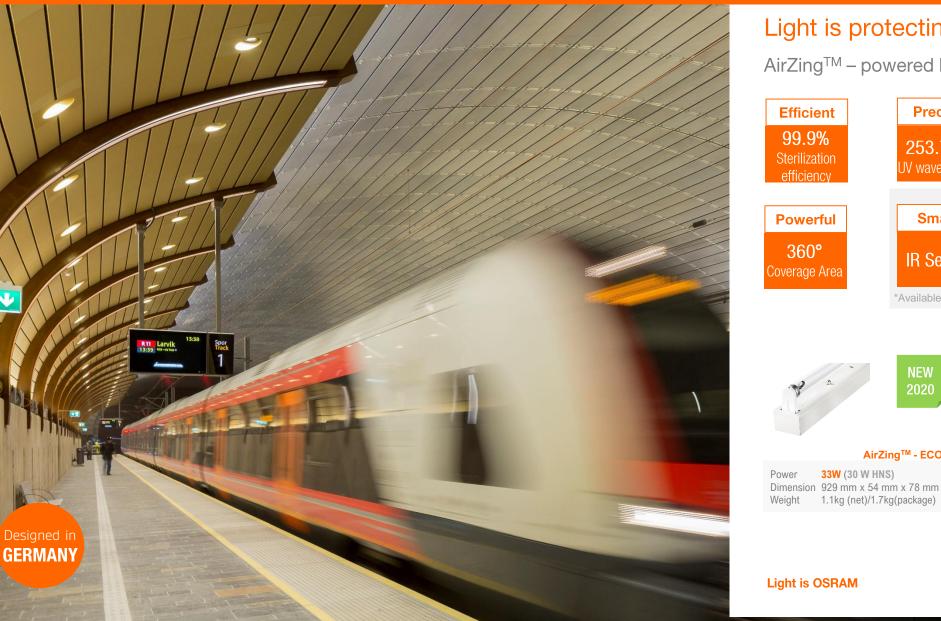
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More Information

callosram@osram.com

