

BIOVITAE®



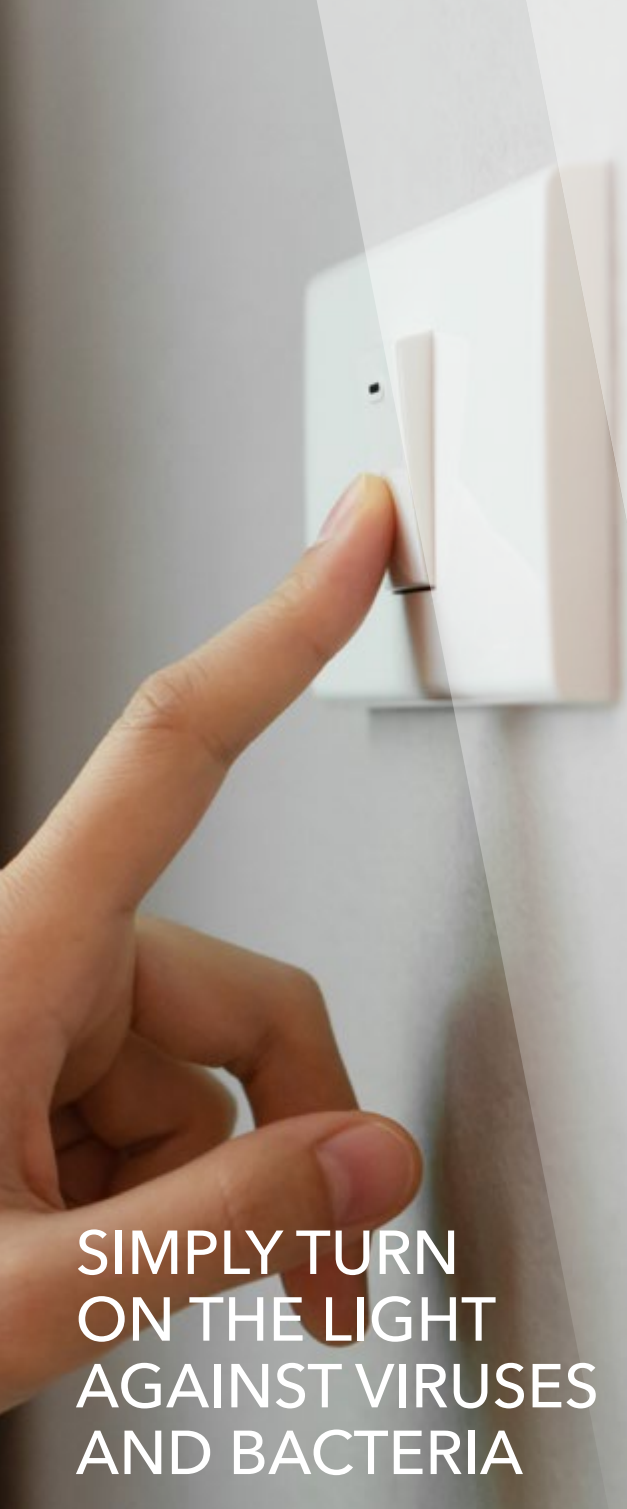
SANITIZES
PROTECTS
ILLUMINATES

Every day, 24 hours a day, our health is threatened by invisible enemies who, by inhalation or by contact, attack our body.

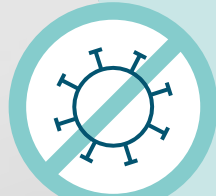
Bacteria and viruses, invisible enemies that attack our immune system especially when we are most vulnerable.

Microorganisms live in close contact with living beings. They can be airborne, transmitted from person to person, by animals or insects, by water, food and contaminated surfaces. To defend ourselves we use more and more drugs (in particular antibiotics) and chemical disinfectants. It is precisely the **misuse and overuse** of antibiotics and disinfectants that has triggered a planetary emergency: microorganisms have learned to contrast them and through a series of mutations, have become drug-resistant and are forming new strains that are increasingly stronger and immune to commonly used chemicals.

Bacterial infections cannot be fought with increasingly powerful antibiotics and the pandemic has taught us that extreme vaccines are the solution to viral infections. The only weapon for both is prevention that on the one hand, makes existing drugs effective and it reduces the risk of viral contagion by containing the spread of the virus. This was detailed in the **Global Health Plan** of the **World Health Organization** (WHO) to counter what has been called "the greatest threat to modern medicine".



BACTERIA



VIRUSES



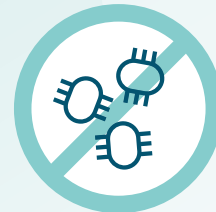
FUNGI



SPORES



MOULD



DUST MITES

Biovitae is the only technology that sanitizes continuously air and surfaces using a NON-UV white natural LED light, safe for both humans and animals.

The light kills bacteria and viruses - in particular SARS-CoV-2 - and it prevents allergies caused by excess bacteria and mould. The combination of **Biovitae** frequencies act on all microorganisms such as bacteria (GRAM+ and GRAM-, spores, moulds and fungi) and kills them. Frequencies inside the wavelength of the visible spectrum provide **continuous sanitization** in all environmental conditions even in the presence of living beings, without putting their health at risk. **Continuous sanitization** is the most effective solution in preventing and containing bacterial and viral infections because it acts when the risk of infection is greater: in the presence of human beings who are both vectors and targets of pathogenic microorganisms. **A revolutionary result and an effective solution for everyone that can be used in all environments.**

SIMPLY TURN
ON THE LIGHT
AGAINST VIRUSES
AND BACTERIA

The light that protects you and protects the environment

Its microbicidal action significantly reduces the use of chemical disinfectants that cause environmental pollution and are harmful to people and animals.

It has **low carbon impact**: Biovitae emits a quantity of **CO2 equal to 33 kg/year** in the atmosphere compared to that of CFL bulbs equal to 62 kg / year and normal LED bulbs equal to 41 kg / year. It is a **class A+ device**: Biovitae saves energy and maintains a healthy environment both at home and in crowded places (schools, canteens, offices, restaurants, hospitals, means of transport, gyms, agriculture and transformation plants, intensive breeding).



100% Safe

**Not harmful to humans and animals.
Does not emit ultraviolet rays.
Zero photobiological risk (UL Certified).**

It complies with **ROHS 2 standards** (Directive 2011/65 / EC) which requires the reduction of the use of lead (Pb), mercury (Hg), cadmium (Cd), hexavalent chromium (Cr6 +), biphenyl-polybrominated (PBB) and diphenyl-polybrominated ethers (PBDE) in the production of electrical and electronic equipment sold in the European Union. It is a **flicker free device** and has no harmful effects on people suffering from neurological diseases.



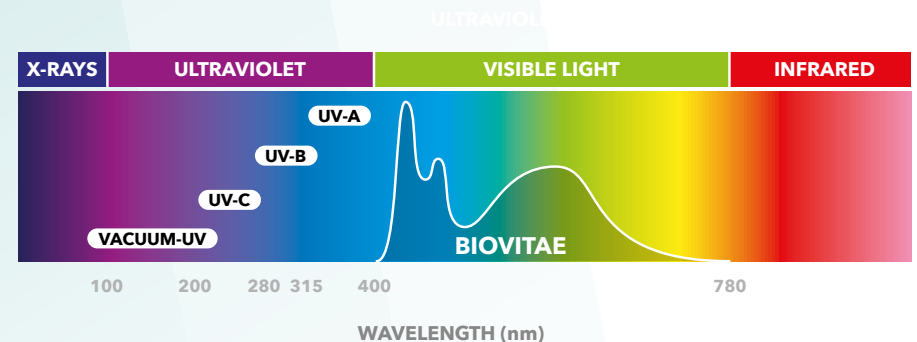


How it Works

The microbicidal action is activated through a patented technology that uses a combination of frequencies of the visible spectrum (NON-UV) in a range between 400-420nm that is scientifically proven to be harmful to bacteria, viruses and other microorganisms (fungi, spores, moulds).

Biovitae is able to penetrate the **biofilm**: a **community of organisms** encased in a gelatinous mass composed of proteins, polysaccharides and genetically transformed cells. The particular composition of this substance allows bacteria to organize and adhere to any type of surface forming large colonies that are very difficult to eliminate. Bacteria are safe inside the biofilm and are able to exchange information and therefore mutate. During this process, **bacteria forms resistance to the immune system**, antibiotics and chemical disinfectants.

According to studies, bacterial biofilm is one of the main responsible of the bacterial infections, it prevents wounds from healing and infections to recur. It is extremely resistant and not even the most powerful chemical detergents can eliminate it. The biofilm can be penetrated by light but **only Biovitae frequencies can, in addition to penetrating it, destroy it.**



Biovitae products



DOMUS A60 E-27

Radiant power (Wnm-1) - 0.6 / 1.0 / 1.0
Luminous flux (lm) - 800
Colour temperature (°K) - 3,000 / 4,000 / 5,250
Beam angle - 160°
Power (W) - 8.8



GU10 SPOT

Radiant power (Wnm-1) - 0.5
Luminous flux (lm) - 360
Colour temperature (°K) - 5,000
Beam angle - 120°
Power (W) - 4.5



FILAMENT A60 E-27

Radiant power (Wnm-1) - 0.55
Luminous flux (lm) - 470
Colour temperature (°K) - 4,000
Beam angle - N/A
Power (W) - 4.9



TUBE 60

Radiant power (Wnm-1) - 1.25
Luminous flux (lm) - 1,000
Colour temperature (°K) - 4,000 / 6,500
Beam angle - 200°
Power (W) - 11



TUBE 120

Radiant power (Wnm-1) - 2.5
Luminous flux (lm) - 2,000
Colour temperature (°K) - 4,000 / 6,500
Beam angle - 200°
Power (W) - 20.1

	<p>TUBE 150 Radiant power (Wnm-1) - 3.0 Luminous flux (lm) - 2,500 Colour temperature (°K) - 4,000 / 6,500 Beam angle - 200° Power (W) - 24.7</p>
	<p>CEILING 595x595 Radiant power (Wnm-1) - 2.6 / 3.0 Luminous flux (lm) - 2,600 / 2,800 Colour temperature (°K) - 4,000 / 6,500 Beam angle - 120° Power (W) - 46 / 42</p>
	<p>CEILING 622x622 Radiant power (Wnm-1) - 3.0 Luminous flux (lm) - 2,900 / 2,800 Colour temperature (°K) - 4,000 / 6,500 Beam angle - 120° Power (W) - 45 / 42</p>
	<p>LINEAR 120 Radiant power (Wnm-1) - 3,3 / 2,7 Luminous flux (lm) - 3.850 / 3.500 Colour temperature (°K) - 4.000 / 5.500 Beam angle - 120° Power (W) - 60 / 57</p>
	<p>LINEAR 150 Radiant power (Wnm-1) - 4.7 / 4.2 Luminous flux (lm) - 5,200 / 5,100 Colour temperature (°K) - 4,000 / 5,500 Beam angle - 120° Power (W) - 78 / 73</p>
	<p>DOWNLIGHT 140 Radiant power (Wnm-1) - 1.5 Luminous flux (lm) - 1,400 Colour temperature (°K) - 4,000 Beam angle - 120° Power (W) - 19</p>

	<p>DOWNLIGHT 180 Radiant power (Wnm-1) - 1.2 / 1.7 Luminous flux (lm) - 2,100 Colour temperature (°K) - 4,000 / 6,500 Beam angle - 120° Power (W) - 27 / 25</p>
	<p>BIOVITAE CAR Dimensions: L92 x W15 x H6 mm Radiant power (Wnm-1) - 0,5 Power (W) - 2.0 (5 V) 2.3 (12 V) - 2.9 (24 V) Beam angle - 120° Lifetime - 20,000 h</p>
	<p>BIOVITAE BUS 900 Dimensions: L900 x W21 x H10 mm Input voltage: 24V DC Radiant power (Wnm-1) - 1.5 Power (W) - 5.5 Beam angle - 120° Lifetime - 20,000 h</p>
	<p>BIOVITAE BUS 360 Dimensions: L360 x W21 x H10 mm Input voltage: 24V DC Radiant power (Wnm-1) - 0.6 Power (W) - 2.2 Beam angle - 120° Lifetime - 20,000 h</p>
	<p>BIOVITAE LIFT Dimensions: L240 x W15 x H6 mm Radiant power (Wnm-1) - 0.5 Power (W) - 2.5 Beam angle - 120° Lifetime - 20,000 h</p>

BIOVITAE IS CERTIFIED BY NATIONAL AND INTERNATIONAL BODIES

Company certifications



Contributors



Product certification



Marks of conformity



Biovitae® is a prevention device and does not replace the use of drugs.
Biovitae® is a registered patent and logo owned by Nextsense S.r.l.

In 2020 Biovitae received the **HIEx Award** as **TOP GLOBAL HEALTH INNOVATION 2020** for its contribution to impact UN-SDG3, with particular reference to COVID-19, at the "UNAIDS Virtual Health Innovation Exchange" event promoted by UNAIDS - the joint United Nations organization for coordinated global action to respond to HIV/AIDS.



**TOP GLOBAL HEALTH
INNOVATION 2020**



PATENTS AND
TECHNOLOGIES

P&P Patents and Technologies S.r.l.
Via della Rotonda, 36
00186 - Rome
Tel. +39 06 69322721
info@p-ptech.it



Nextsense S.r.l.
Via Trento 143/a
84129 - Salerno
info@nextsense.it
www.nextsense.it

BIOVITAE[®]
THE LIGHT THAT PROTECTS

www.biovitae.it