



Product information

While processing vegetables after harvesting, diseases are being spread by contact of other vegetables, processing lines and other post-harvest processes.

The CleanLight Post-harvest XL modules disinfects the surface of these vegetables and prevents the spreading of fungi, bacteria and viruses such as Erwinia, Pseudomonas, Fusarium, Botrytis, Honeydew and Powdery Mildew.

These CleanLight XL-modules are mounted on top of the processing lines. For example, on a sorting line of peppers, cucumbers or tomatoes. If the product does not turn underneath the CleanLight XL-modules, there is a possibility to include a roller belt. Next to the product being disinfected, the transportation belt will also continuously be disinfected.

In the two or three seconds that the product is the CleanLight XL units, the small invisible wounds and stems (of peppers and tomatoes) are being well disinfected. This prevents the spreading of diseases and further loss of products in the chain.

The parabolic reflectors ensure that the UV-light is directed towards the product and they are easy to install above existing installations.

Specifications:

- Available for all widths: one CleanLight XL module has a width of 12cm and is 60cm long
- Voltage adjustable to desire of client 120V or 230V
- Includes parabolic reflector and UV-bulb
- Lifetime of the lamps: 8000 hours (hour meter included)
- Electricity usage: from 1260 watts to 4000 watts (depending on the width and speed of the belt)
- Useable for the processing of peppers, cucumbers, tomatoes, lemons and other products

Advantages

- Useable for multiple vegetables
- Effective against fungi, bacteria and viruses
- Prevents the spreading of diseases and future loss of products in the chain
- CleanLight does not leave any residues on the products
- It is a dry and fast application
- There is no (regulatory) limit of applying UV-light on the product

Results DNA Multiscan tests

Unexposed

**Fusarium Oxysporum
Level 5**

Exposed

**Fusarium Oxysporum
Level 0**

Maximum
Level is 6

Sample	No UV treatment cfu/g	No UV treatment log ₁₀ cfu/g	UV treatment cfu/g	UV treatment log ₁₀ cfu/g
Replicate 1	70000	4,85	550	2,74
Replicate 2	35000	4,54	1800	3,26
Replicate 3	160000	5,20	3400	3,53
Average	88333	4,86	1917	3,18

Table 2 Effect of the UV-irradiation on *E. carotovora* subsp. *carotovora* in paprika samples

These results show reductions between 95% and 99% of the Erwinia Carotovora bacteria, tested in peppers.

Contact

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