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# UV-C LIGHT

**AN ALTERNATIVE, ENVIRONMENTALLY FRIENDLY AND  
SUSTAINABLE PROTECTION AGAINST TURF DISEASES**

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**Course Support**  
Klaus Schmitt & Oliver Bätz GbR





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# UV-C LIGHT

## **AN ALTERNATIVE, ENVIRONMENTALLY FRIENDLY AND SUSTAINABLE PROTECTION AGAINST TURF DISEASES**

The use of **UV-C light** on soccer fields has been a revolutionary breakthrough in diseases control for greenkeepers

This new technology protects turf against fungal diseases by exposing it to **UV-C light**.

Our practical experience has shown that the application of **UV-C light** is more effective than that of fungicides. In contrast to chemical pesticides, however, this innovative method of protection against turf diseases, which are caused by fungal spores on leaves and stems, comes without any potential risks or side effects. Moreover, the use of **UV-C light** will not lead to the development of resistances.

Pink Snow Mold (*Microdochium nivale*/*Gerlachia nivalis*), Dollar Spot (*Sclerotinia homoeocarpa*), Powdery Mildew (*Blumeria graminis*), Anthracnose (*Colletotrichum graminicola*). It also successfully prevents Leaf Spot (*Drechslera siccans*) Rust (*Puccinia ssp.*) diseases on turf.

A weekly exposure of soccer fields to **UV-C light** protects the turf from contracting fungal diseases.

**UV-C light** application is a method whose mechanisms of action have been known for a long time. It uses the range of the electromagnetic spectrum with wavelengths between 200 and 280 nanometers. The **UV-C light's** wavelength largely coincides with that of the DNA's (deoxyribonucleic acid) maximum absorption, which triggers a photochemical process when **UV-C light** is applied. The **UV-C photons** modify the micro-organism's DNA impeding further binary fission. The organism can thus no longer replicate and dies.

**Get in touch with us.**

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# lightMAX<sup>3</sup>



## Get more information!

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