NXT-row + UV-C

Autonomous solution for crop protection

UV-C light is a proven method for controlling powdery mildew and can also reduce the growth of other fungi, such as botrytis, depending on the dose and method of application. The short wavelength kills spores on the leaf surface without harming the crop. The result: healthy plants, reduced use of chemical agents, and a more sustainable cultivation process.

UV-C technology is used successfully across a wide range of crops. Plants with relatively firm leaf structures generally tolerate effective dosing without risk of phytotoxic damage. In more sensitive crops (such as cucumber), careful adjustment of the dose, travel speed and exposure time are especially important.

metazet™

NXT-row + UV-C: autonomous crop protection

Metazet's NXT-row is an autonomous platform that navigates independently along tube rails through the greenhouse. Combined with UV-C fixtures, it offers a complete automatic and safe crop protection solution. Key features:

- Treats one or multiple rows simultaneously
- Adjustable travel speed (20–60 m/min), tailored to crop type and disease prevalence
- Autonomously enters, exits and switches between rows
- Powered by lithium batteries for continuous operation

Capacity and use

On a single battery charge, the NXT-row with UV-C can operate for approximately 6 hours in the greenhouse, depending on the setup. This is equivalent to a capacity of around one hectare a day. Its configuration (with one or multiple arms) allows the system to be easily tailored to your specific operational needs.

Your benefits

✓ Effective control of fungal diseases
✓ Reduced dependence on chemical crop protection
✓ Labour savings through autonomous operation
✓ Sustainable and environmentally friendly
✓ Flexible integration into existing greenhouses

Partnership

This UV-C solution was developed in partnership with Micothon, a leading expert in innovative crop protection.

Supporting your Growth.

metazet.com