

Vertical Lumia



VERTICAL LUMIA

Mixed lighting functions

Mode 1

Main spectrum, defined according to the type of crop.

Mode 2

Secondary spectrum, defined for a specific action (light signals, lighting facilitating the work of operators).

Mode 3

Assembly of modes 1 and 2 if necessary to reinforce a desired effect.

BENEFITS

- Innovative vertical intraculture luminaire
- Lightens from the apex to the 3rd bouquet
- Support culture
- Consumes little for formidable efficiency
- 3 ha already installed
- Lightweight and easy to install
- Glare-free guarantee
- Harvest or flowering boost mode
- +18% yield for -30m²

Innovative vertical intraculture luminaire

Innovative vertical light that follows the natural growth of crops (tomato, cucumber, raspberry, etc.). The Lumia vertical integrates as closely as possible to the crop for additional intra-canopy light. Has two independent controllable light spectra that save the producer money and precisely improve photosynthesis.

Designed with the producers to facilitate installation, requiring no authorization because the entire system is «Plug & Play».



Clients

- ✓ Greenhouse growers
- ✓ Research & Development
- ✓ Research centers and technical institutes



Crops

Tomato, Cucumber, Raspberry, Pepper, Goji Berry, ...



Aims

- ✓ Increase tomato production (kg/m², number of fruits)
- ✓ Improve organoleptic properties (taste, physicochemical properties, presentation, etc.)
- ✓ Optimize production time (earliness, late crops, flowering-harvest shortening, etc.)
- ✓ Reduce energy consumption related to lighting
- ✓ Test the impact of different light spectra in order to define optimal lighting protocols

Vertical Lumia by VGD & Liite
awarded a SIVAL Innovation 2021



Results

Tomatoes

3.5 weeks ahead of flowering.
2.5 weeks in advance of the first harvest, shorter flowering-harvest time,

+ 40% efficiency,
+ 12% vitamin C,
+ 15% in fruit firmness,
+ 15% in BRIX degree (sugar level),

+ 33% better taste,
+ 40% perceived sweetness,
- 44% water taste

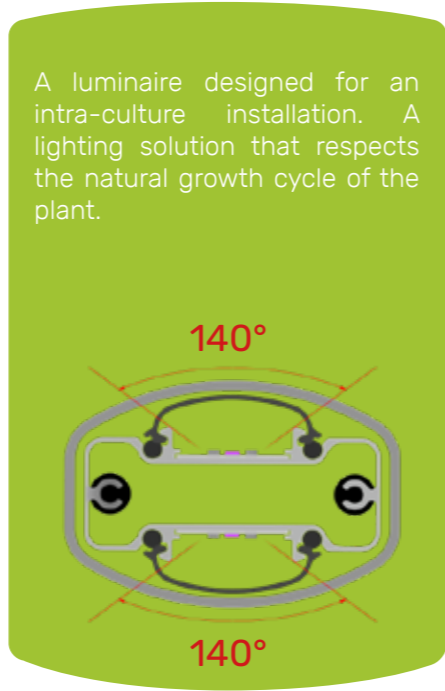
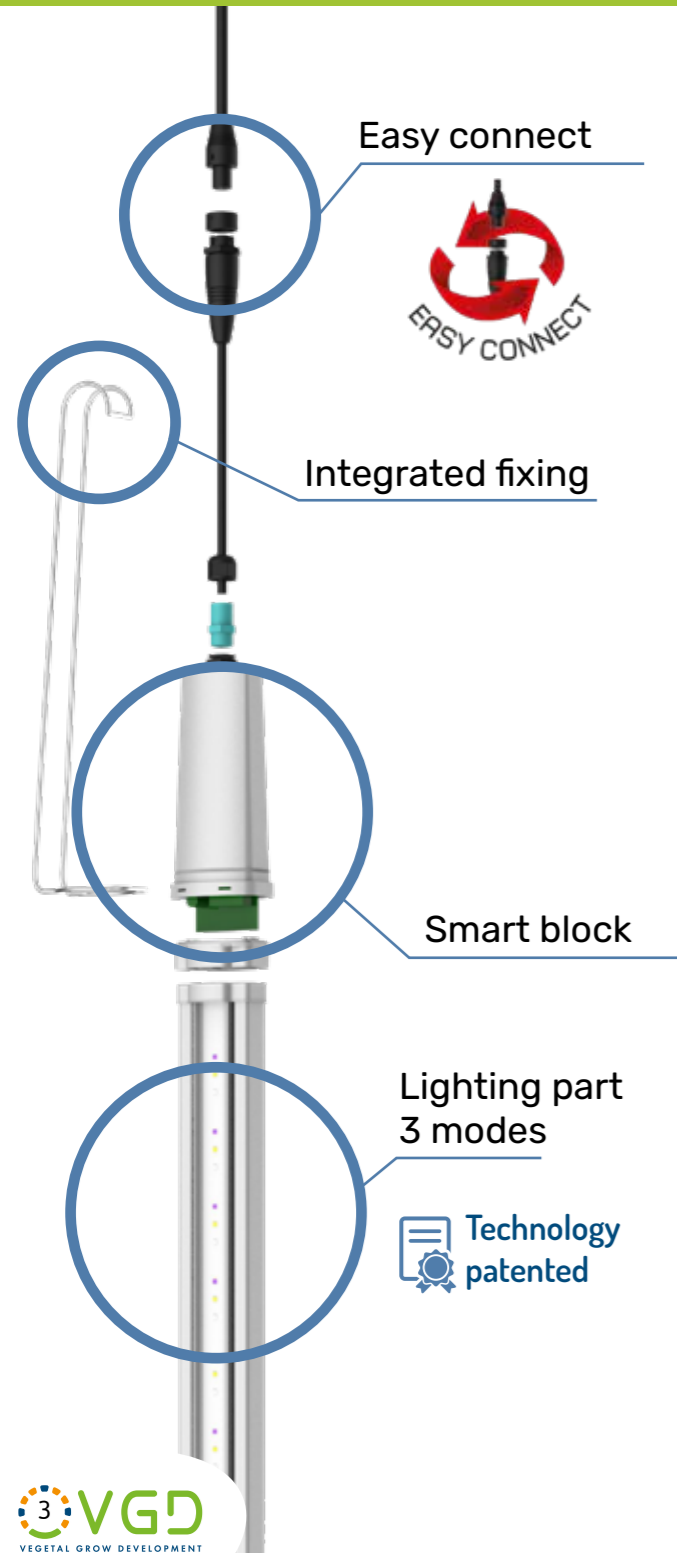
“ I have gained in homogeneity of production throughout the season with an early arrival on the market. The fact of having bet on a controlled complement of light, on the advice of VGD, allows me to have an easier return on investment. ”

Patrick Roux – Producer

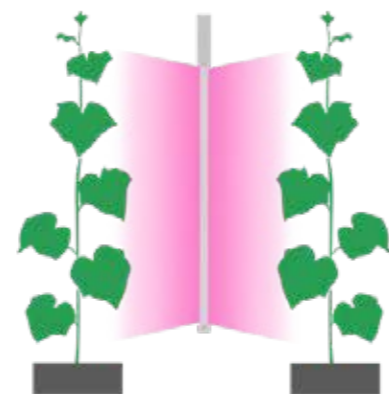
Vertical Lumia



- 40 Watts
- 2x140°
- IP65
- IK08
- 850°
- Class 2
- CE ROHS
- 5 year warranty



Vertical lighting technology



Connection up to 60m
Easy to install

A product and its accessories designed for ease of installation and daily use.

This range of accessories, easy to use, has been designed to adapt to glass and tunnel greenhouses as simply as possible.



Technical centers and producers

