



HORTILED

HLRD-series lamps for science

The most flexible and versatile lighting solution on the market, with excellent ergonomics

ERGONOMICS

Stand-alone or ceiling-mounted design



Quick disassembly into 3 compact parts for transportation



Easy access to specimens from all sides



SOFTWARE



Operation via user-friendly interface from mobile devices or PCs



Simple setup of lighting programs for periods of 1 hour to 180 days



Controlled intensity and blinking frequency



Each lamp can be fitted for any available spectra, allowing users to create unlimited combinations of spectral recipes.

Any producer's LEDs can be used (Phillips, LedEngine, Osram, Cree, Epitex).

Optional electric engine for raising or lowering the lighting panel.

Stable base with perforated net and tray for waste collection.





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“We’ve been working in the field of photophysiology for more than 10 years. For a research project to succeed, it’s not enough to have an excellent idea – you also need suitable, efficient lighting equipment that enables you to implement the idea.”

Dr. Akvilė Viršilė / Senior Researcher / Lithuanian Research Centre for Agriculture and Forestry

WHY HORTILED

- More than 8 years of R&D experience in LED lighting for plants
- Close work with scientists in the fields of physics and plant photophysiology
- Successful transfer of R&D experience to industry
- Applications for research and industry
- High-quality engineering and component

OUR ADVANTAGES COMPARED TO OTHER LAMPS FOR SCIENCE

- Suitable for diverse research spaces (growing chambers, phytotrons, laboratories, greenhouses)
- Unique software lets you program each spectral component separately and manage spectral composition throughout an experiment
- Ability to change the spectral composition and intensity of individual components with user-friendly software
- Capabilities for adding new spectral components during an operation



Specifications

Application	Flexible LED-based plant lighting system for research
Functionality	<ul style="list-style-type: none"> • Recipe storage in memory • Export and import of recipes • Control of blinking frequency • Control of intensity • Photoperiod simulation
Control interface	HTTP / mobile devices / PCs
Advantages	<ul style="list-style-type: none"> • Flexibility and versatility • User-friendly control interface
Lamps (standard set)	<ul style="list-style-type: none"> • Far red: 735 nm; 740 nm • Red: 627 nm; 638 nm; 660 nm • Blue: 447 nm; 460 nm • UV: 365 nm; 400 nm
Transportation	Easily disassembled into 3 compact parts
Height/Width/Length	1300/500/800 cm
Weight	24 kg
Input voltage	110–240V, 50/60 Hz
Power consumption	230W
Options	<ul style="list-style-type: none"> • Lenses: diffused or clear • Electrical drive

