



Spectrabox

Spectrabox PRO Series

720W Spectrabox PRO

Technical Specifications

Release Version: V3.0

Release Date: 2025/06/15

Advantages Spectrabox PRO

1. High efficiency and energy saving

The Spectrabox PRO is an extremely efficient LED grow light. Tests have shown that LED lighting solutions can reduce electricity consumption by 50% to 80%, while also increasing yields of sugars, terpenes, flavors, and active ingredients by up to 78%.

2. High PAR light output

Equipped with high-efficacy Ledestar LEDs, the Spectrabox PRO offers an efficiency of approximately 3.1 $\mu\text{mol/J}$. The LEDs are lensed with 110° beam optic lenses to improve light penetration and ensure a high PAR level at the lowest buds.

3. Double Row, Dual Angle light beam

The 6 Bars of the Spectrabox PRO are each equipped with a Double Row of LEDs, with both rows mounted at a 15° angle to provide a wider light beam. Combined with the 110° PC lenses, this Double Row Dual Angle Light Beam design ensures optimal, uniform light distribution and enhanced light penetration.

4. Long lifespan

The Spectrabox PRO uses high quality Horticulture LEDs, specially designed to withstand a horticultural environment with high humidity and high temperatures. The advanced LED cooling thermal design ensures optimal LED performance with high light output, efficiency and reliability, and a long lifespan.

5. Waterproof

The Spectrabox PRO is rated with a IP65 dust and waterproof level. The LEDs are mounted on the aluminum frame of the 6 Bars and protected by a PC lens cover, ensuring safe, maintenance-free and long-lasting operation.

6. Control Panel

The Spectrabox PRO is a user-friendly LED grow light that provides a full plant spectrum. With an easy 4-step dimmer, you can effortlessly adjust the light intensity to meet your plants' needs during all growth phases. Additionally, the light features an RJ12 port, allowing you to connect an external smart plant controller and daisy-chain multiple lights for integrated control.

7. Advanced thermal design

The LEDs are passively cooled by the aluminum frame of the 6 LED Bars. The aluminum circuit board is attached directly to the frame for excellent heat dissipation. Passive LED cooling is preferable to active cooling. No moving parts are required, which is energy efficient and requires no maintenance.

8. Plug and Play

No installation is required; no reflectors or ballasts are needed. Simply plug the Spectrabox PRO directly into a grounded AC120 or AC230 volt outlet, making installation safe and straightforward.

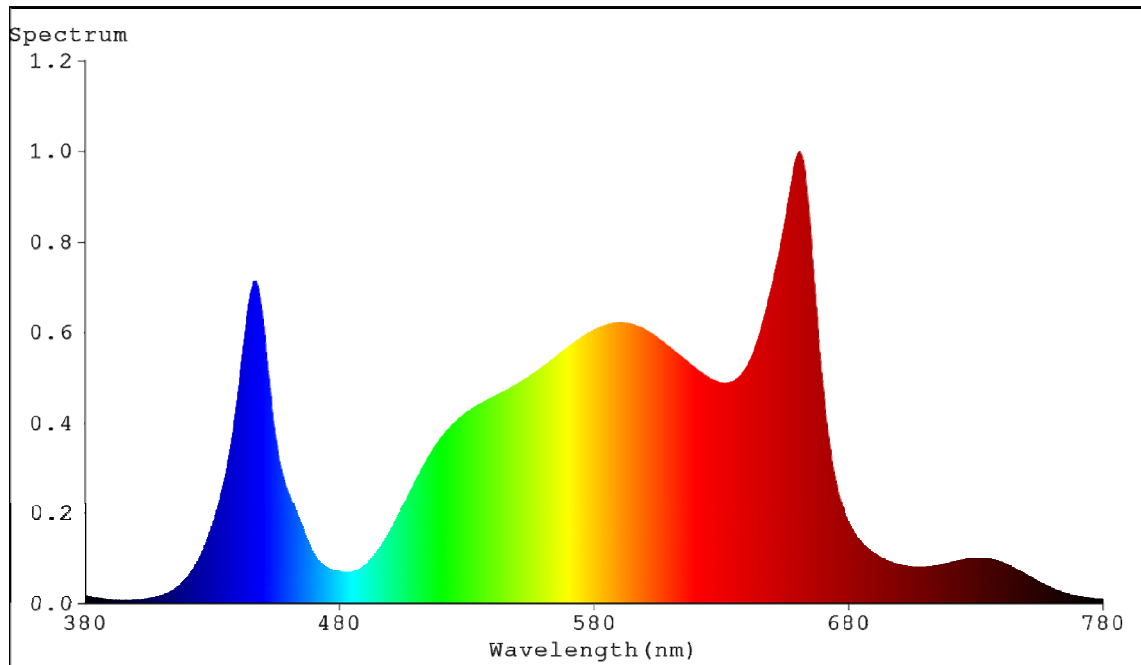
9. Environment friendly

The Spectrabox PRO series contains no harmful substances like those found in HPS and MH lighting, resulting in no hazardous waste and a cleaner, greener planet. LEDs require significantly less energy to produce compared to other lighting technologies and contain no mercury or other toxic materials such as iodine and lead.

720W Spectrabox PRO







Spectrum Spectrabox PRO



1. The Spectrabox PRO LED grow light is suitable for indoor greenhouse and "dark room" lighting.
2. The 720W Spectrabox PRO is the equivalent of 2 pieces 750W HPS grow lights.
3. Ideal for all phases of plant growth and works well in any garden, both hydroponic and soil.
4. Use Dim Control to adjust the light intensity to the needs of plants during all phases of plant growth.
5. OEM/ODM or custom integrated grow lighting solutions are available upon request.

LEDs Spectrabox PRO

LED DIODES LEDESTAR				
TYPE	PIC	YES/NO	LED TYPE	LED PPE
WHITE 3000K		✓	2835	3.3–3.4umol/J
WHITE 5000K		✓	2835	3.1–3.3umol/J
DEEP RED 660NM		✓	3535	4.0–4.2umol/J
FAR RED 730NM		✓	3535	2.4–2.5umol/J

Technical specifications 720W Spectrabox PRO

Item	Value	Item	Value
LED chip	Ledestar Horticulture	Power consumption	~ 720 Watt
LED type	2835 & 3535	Power factor	> 97%
LED wavelength	Full-spectrum	Dim controller	4-step dimmer
LED efficiency	~ 3,1 µmol /J	Voltage	120V – 277V
Optic lenses	110° beam angle	Frequency	50/60 Hz
Height above plants	> 100 mm	Working environment	-20 ~ + 40°C
Estimate lifespan	50.000 hours	Waterproof level	IP65
Size Spectrabox	1170x1150x78 mm	Weight	8,0 Kg

Certifications and Warranty Spectrabox PRO



Note:

1. Do not look directly at the Spectrabox light without wearing sunglasses.
2. Determine the lighting time depending on the growth phase and species.
3. The electrical outlet must be grounded.
4. After sales service; 3-year warranty