

**7 DIODE TYPES**  
EVO ENHANCED FULL SPECTRUM

**3**  
CHANNEL  
SPECTRAL  
MIXING



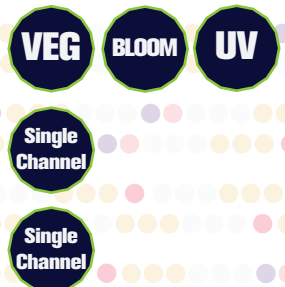
# HELLION HELLboard LED



480W GENIUS VARIABLE SPECTRUM

450W PERFORMER FULL SPECTRUM

450W STARTER FULL SPECTRUM



Ready to mix it up?

Adjust-A-Wings HELLion HELLboard LED brings higher system efficiency along with spectrum and intensity control throughout the plant lifecycle.

With three cutting-edge, high intensity LED fixtures (HB480G, HB450P, HB450S), the Adjust-A-Wings brand ensures that decades of lighting know-how stand behind these highly innovative, LED grow lights.



**WARNING!!!** The HELLION HELLBoards have hit the scene with game changing impact!!!

### Surf the Spectrum with our GENIUS 480W

This HELLboard has it all – Good looks, Power, Quality, Versatility and Intelligence.

3 x Channel Spectral Mixing to Mimic Nature/Create Seasons and Boost Quality + Yield.

3 x Sosen Drivers to power Veg, Bloom and UV Diode Groups separately and Ultra-Efficiently.

1080 x Diodes of 7 x Types to provide a Banquet of Photosynthetic + Bio-Stimulatory Spectra.

(Samsung 301H EVO 3K + 5K, Samsung 301H 3K + 5K, Osram Hyper Red, Osram IR, Seoul UV).

Multi-Finned Heat Dissipation to ensure Cool Operation, Peak Diode Performance + Long Life.

And, of course, the Genius 480 is compatible with our HELLION - LED Master III controller (3 x Channel Programable Brain with 5 x Areas of Memory to store & recall Preprogrammed or Grower Created Light Recipes). Pure GENIUS!!



**HB480G**

PPE 2.90 umol/J

\*BPE 3.05 umol/J

### Dominate the Grow Space with our PERFORMER 450W

Born to Impress, this HELLboard combines Power with Quality and Simplicity with Sportiness.

1 x channel, 2 x Sosen Drivers and a mix of 944 x Diodes create a Powerful + reliable platform.

Samsung 301H 3K + 5K Primary Diodes for Highest Efficacy and Quality full spectrum light.

Osram Hyper Red + Osram IR Secondaries provide Industry topping Penetration and Bulk.

Multi-Finned Heat Dissipation ensures Cool Operation, Peak Diode Performance + Long Life.

All the above, combined in Sports Car style, shouts PERFORMER!

(Compatible with all industry standard RJ11-14 Cable (0 – 10V / PWM) controllers).



**HB450P**

PPE 2.95 umol/J

### Get in the Game with our STARTER 450W

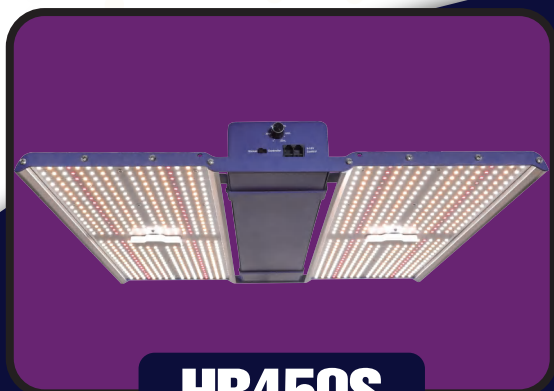
Beginner to Budget Conscious, this HELLboard has your back! Power + Style at a modest price.

2 x Sosen Drivers, Samsung 281B Pro 3K + 5K Primary Diodes with Peak PPE of 2.9 umol/J.

2835 Red and IR Secondary Diodes + Multi-Finned Cooling combine for Peak Performance.

All this, along with a 1024 x Diode count, create a real Monster of a STARTER.

(Compatible with all industry standard RJ11-14 Cable (0 – 10V / PWM) controllers).



**HB450S**

PPE 2.85 umol/J

\* BPE (Bioactive Photon Efficacy - 280 to 800nm) includes PAR + UV/Near Blue + Far Red/IR.

## DIALING IN THE PERFECT SPECTRUM

HELLboard 480W Genius is equipped with 3 x independent channels (VEG, BLOOM, UV) for spectral diversity and control.

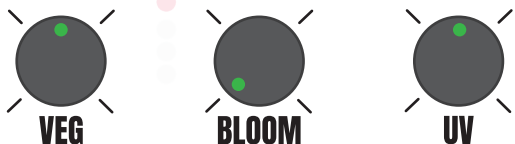
VEG channel is full-spectrum, rich in Blue.

BLOOM is also full-spectrum, rich in Red.

UV provides UVA + Near Blue (potency plus!)

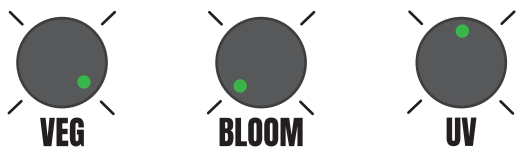
Further, both VEG+BLOOM channels use **Samsung EVO diodes** to turbo Boost Photosynthesis!!

## PROPAGATION



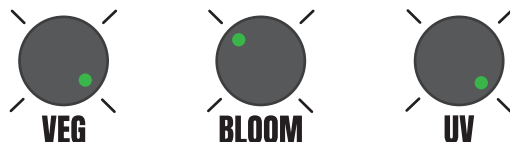
Gradually increase the intensity of the VEG channel as your plants develop. Some UV helps to strengthen seedlings and cuttings

## VEGETATIVE GROWTH



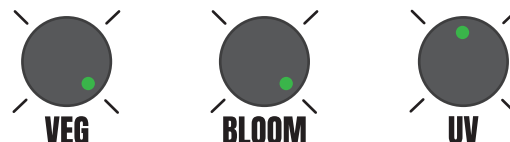
Blue-dominant spectrum helps to keep plants squat and bushy, making them easier to illuminate efficiently during the BLOOM phase.

## VEGETATIVE TO BLOOM



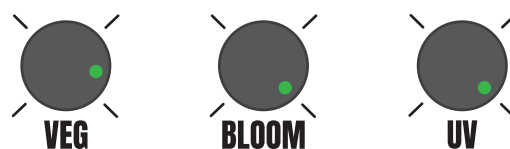
Combining lower BLOOM with higher UV and high VEG can help to reduce unwanted internodal stretch.

## BLOOM



Increase BLOOM after the initial development of flowers. The extra Red and Far-Red promote branching and help to increase flower size + density.

## RIPENING / FINISHING



Additional UV during the final few weeks can boost flavours, colours and essential oils. Try leaving all channels on full and raising the fixture by 15 to 20cm.

## TAKE SPECTRAL QUALITY TO THE NEXT LEVEL

CONTROL STRETCH, BOOST TERPENES, ENHANCE FLAVOURS

### HB450S

PPF 1285  $\mu\text{mol/s}$

\*BPF 1305  $\mu\text{mol/s}$

### HB450P

PPF 1330  $\mu\text{mol/s}$

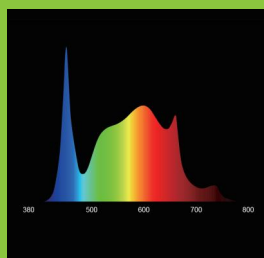
\*BPF 1350  $\mu\text{mol/s}$

### HB480G

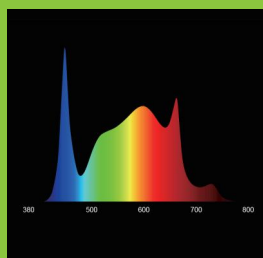
PPF 1395  $\mu\text{mol/s}$

\*BPF 1465  $\mu\text{mol/s}$

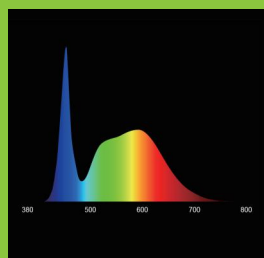
HB450S



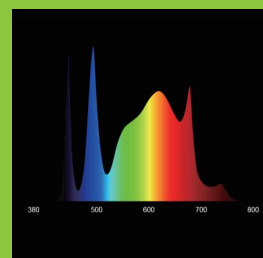
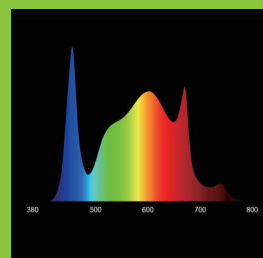
HB450P



HB480G VEG



HB480G VEG+BLOOM HB480G VEG+BLOOM+UV



\*BPF (Bioactive Photon Flux/280 -800nm) includes PAR + UV/Near-Blue + Far-Red/IR.

## HELLION 3-CHANNEL LED CONTROLLERS



RJ11 ports for group control

Stay in control of your gardens with the HELLION LED MASTER CONTROLLERS.

DIAL IN SPECTRAL RECIPES FROM SUNRISE TO SUNSET ACROSS THREE CHANNELS AND TWO SEPARATE ZONES.

(STANDARD CONTROLLERS NOT COMPATIBLE WITH HELLION 3-CHANNEL LEDs)

## FOOTPRINT / COVERAGE

**HB480G** 1M x 1M - 1.2M x 1.2M

**HB450P** 1M x 1M - 1.2M x 1.2M

**HB450S** 1M x 1M - 1.2M x 1.2M

## MINIMUM HANGING HEIGHTS

3-Year Warranty

**HB480G** **HB450P** **HB450S** 45-50cm

NB: All models can be operated at 30-45cm when dimmed to 75% or less.



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