

# DIMLUX XTREME NIR+UV-A ADD ON



## **SUPPLEMENTAL HIGH POWER INDIVIDUALLY ADJUSTABLE NIR AND UV-A GROW LIGHT DIMLUX XTREME NIR+UV-A ADD ON 140W OR 70W**

Can be used as photosynthesis booster and accelerates flower setting and can shorten the night and lengthen the day for more photosynthesis (higher DLI). Increases resistance to fungi, and other pathogens. Increases resin production which brings out flavonoids and terpenes.

The DIMLUX logo features a stylized, multi-colored (yellow, orange, red) horizontal bar above the word 'DIMLUX' in a bold, black, sans-serif font.

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### FAR-RED (NIR)

Can be used as photosynthesis booster in combination with red light. When used after sunset, accelerates the nighttime metabolism and the sleep rhythm. Accelerates flower setting and possibly shortens the night and lengthens the day for more photosynthesis (higher DLI). In the growing and early blooming phase, plants can

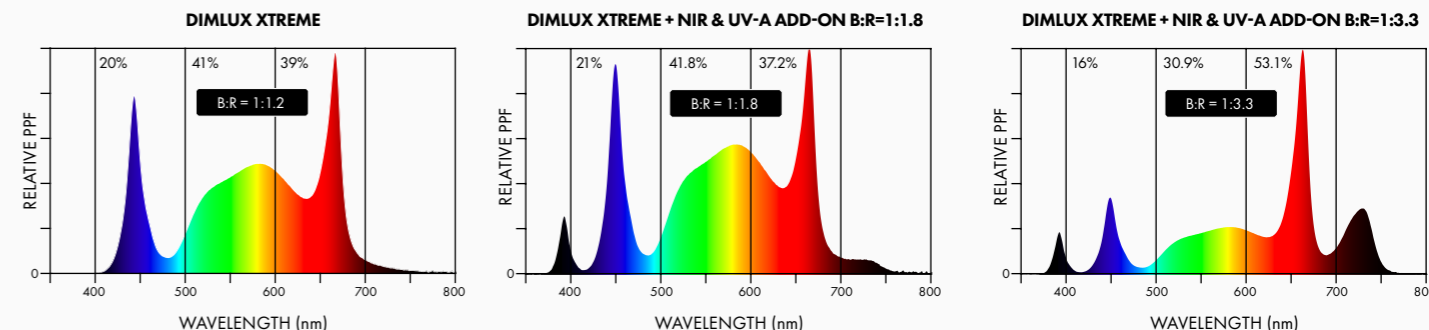
be grown taller. Conversely, plants can be kept very compact initially (far-red off) and when switching to the flowering phase (turning far-red on), the synergetic effect of the extra far-red can be exploited.

### UV-A

Increases resistance to fungi, and other pathogens. Increases resin production which brings out flavonoids and terpenes. Makes the plant stronger, healthier, shorter and increases root production. The leaves will become darker green caused by more pigmentation. Adds extra photons used in photosynthesis, resulting in more yield. When combined with a UV-B add-on, the UV-A helps protect against damage to DNA, proteins and nucleic acids in plant cells caused by UV-B. When UV-A and UV-B are combined in the right amounts and for the right duration, they have a synergistic stress response effect that makes them even more potent while also being less harmful than UV-B alone.

### ENRICH YOUR LED SPECTRUM WITH DIMLUX ADD-ONS

With patented technology, advances in LED technology, and optimal thermal design, the Dimlux Xtreme Series 500W, 750W and 1000W LED will be the preferred option offering significant return on investment to cultivators. Our adjustable PhytoVegSpec® grow spectrum combines full control over light quality (spectral flexibility) and quantity (intensity and DLI) ensuring a uniform spread and even light distribution with extreme penetration into the canopy.



### ADD-ON ADVANTAGE EXPLAINED

Independent control of the NIR and UV-A channels makes it possible to mix the right amount of grow/control light at any time in the grow cycle.

UV-A can be gradually increased as the plant progresses through its growing phase. NIR can be added during the flowering phase, to be used as a photosynthesis booster along with red. Also, by adding NIR photons at the beginning of the night, the Phytochrome far-red can be converted more quickly to its inactive form Phytochrome red. As a result, the plant will "fall asleep" faster, which increasing photosynthesis during the day and improves metabolism during the night.



# SUPPLEMENTAL HIGH POWER ADJUSTABLE NIR AND UV-A GROW LIGHT

Seamless integration with the Xtreme Series 500W, 750W and 1000W LED. Can also be used as stand alone fixture with autonomic channel control in combination with other primary grow lights.



SUITABLE FOR  
DIMLUX XTREME SERIES  
**750W**  
**1000W**  
LED

ULTIMATE GROW CONTROL  
**+NIR / UV**  
DIMLUX XTREME LED ADD ON

Light Output **FAR-RED**  
**247  $\mu\text{mol/s}$**   
(670-760nm) Photon Flux

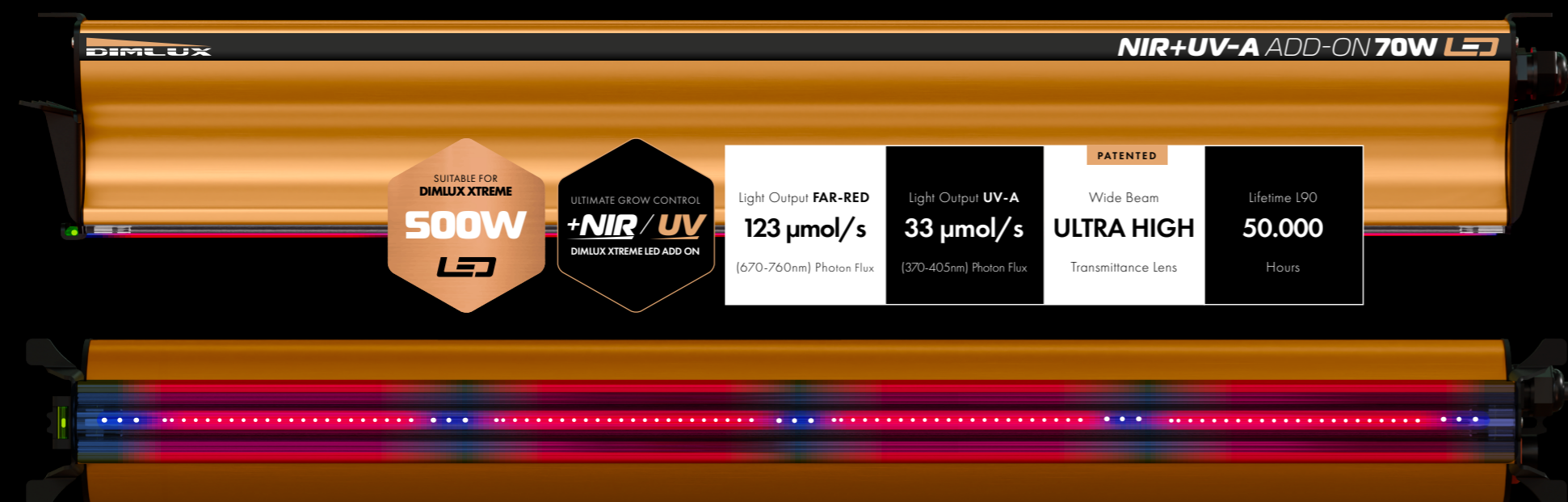
Light Output **UV-A**  
**66  $\mu\text{mol/s}$**   
(370-405nm) Photon Flux

**PATENTED**  
Wide Beam  
**ULTRA HIGH**  
Transmittance Lens

Lifetime L90  
**50.000**  
Hours

Seamless integration with the Xtreme Series 1000W and 750W LED.

Fits competitive brands if distance between beams is 5cm (1.97") and the distance between the support arms is 108cm (42.51")



SUITABLE FOR  
DIMLUX XTREME  
**500W**  
LED

ULTIMATE GROW CONTROL  
**+NIR / UV**  
DIMLUX XTREME LED ADD ON

Light Output **FAR-RED**  
**123  $\mu\text{mol/s}$**   
(670-760nm) Photon Flux

Light Output **UV-A**  
**33  $\mu\text{mol/s}$**   
(370-405nm) Photon Flux

**PATENTED**  
Wide Beam  
**ULTRA HIGH**  
Transmittance Lens

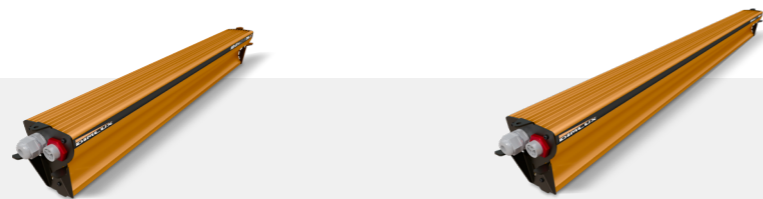
Lifetime L90  
**50.000**  
Hours

Seamless integration with the Xtreme Series 500W LED.

Fits competitive brands if distance between beams is 5cm (1.97") and the distance between the support arms is 72cm (28.34")

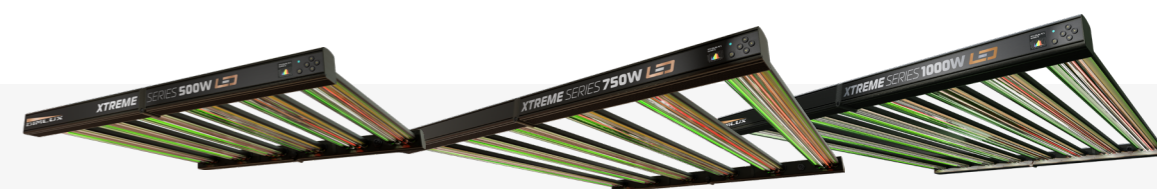
- Patented wide beam ultra high transmittance lens
- Build-in controller with light sensor
- Can be controlled by Maxi controller or 3rd party controllers
- Daisy-chained power and Interlink connections, power multiple light fixtures from a single outlet
- Upgradeable by Wi-Fi or Interlink
- Built-in spirit level for horizontal adjustment

## SPECIFICATIONS



MODEL	EXTREME NIR+UV-A 70W	EXTREME NIR+UV-A 140W
Light Source	70W LED Dual Band	140W LED Dual Band
<b>FAR-RED (670-760nm) Photon Flux</b>	<b>123 <math>\mu\text{mol/s}</math></b>	<b>247 <math>\mu\text{mol/s}</math></b>
UV-A (370-405nm) Photon Flux	31 $\mu\text{mol/s}$	62 $\mu\text{mol/s}$
Total Photon Efficacy (350-800nm)	2.91 $\mu\text{mol/J}$ @ 230-240V AC	2.95 $\mu\text{mol/J}$ @ 230-240V AC
AC Input Power	72.5W @ 230V AC	156.1W @ 230V AC
AC Input Voltage	120-277V AC, 50/60Hz	
AC Input Current	0.65A @ 120V / 0.27A @ 277V	1.3A @ 120V / 0.56A @ 277V
Optics	<b>Patented</b> Deep Penetration Ultra High Transmittance Lens	
Auxiliary Light	<b>Patented</b> Light Pipe Multi Color 65k	
Rcmd Hanging Height	120x120cm min. 60cm / 4'x4' min. 2'	150x150cm min. 75cm / 5'x5' min. 2.5'
Rcmd Hanging Height	100x100cm min. 50cm / 40"x40" min. 20"	120x120cm min. 60cm / 4'x4' min. 2'
Thermal Management	Passive	
Operating Temperature	0-40°C / 32-107°F (non-condensing)	
Total Harmonic Distortion (THD)	< 10%	
Lifetime L90	> 50,000h	
IP Rating	IP50	
Certifications	CE, UL 8800, UL 1598 Wet Location	
Photobiological Safety	IEC 62471 - Risk Group 2	
<b>CAUTION</b>	<b>UV Emitted from these products</b>	
Warranty	3 Year Standard	

## SEAMLESS INTEGRATION WITH



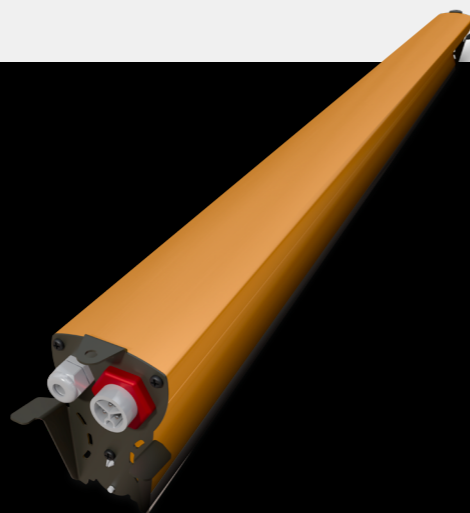
MODEL	500W LED (+NIR)	750W LED (+NIR)	1000W LED (+NIR)
<b>Spectrum Adjustable PhytoVegSpec® Indoor</b>			
Light Output (PPF)	1500 $\mu\text{mol/s}$	2276 $\mu\text{mol/s}$	3035 $\mu\text{mol/s}$
<b>Light Output Total (PPF 350-800nm)</b>	<b>1571 <math>\mu\text{mol/s}</math></b>	<b>2357 <math>\mu\text{mol/s}</math></b>	<b>3142 <math>\mu\text{mol/s}</math></b>
PAR Photon Efficacy (400-700nm)	2.81 $\mu\text{mol/J}$ @ 230-240V AC	2.85 $\mu\text{mol/J}$ @ 230-240V AC	2.85 $\mu\text{mol/J}$ @ 230-240V AC
Total Photon Efficacy (350-800nm)	2.91 $\mu\text{mol/J}$ @ 230-240V AC	2.95 $\mu\text{mol/J}$ @ 230-240V AC	2.95 $\mu\text{mol/J}$ @ 230-240V AC
AC Input Power	540W @ 230-240V AC	799W @ 230-240V AC	1065W @ 230-240V AC
<b>Spectrum Adjustable PhytoVegSpec® +NIR Indoor</b>			
Light Output (PPF)	1420 $\mu\text{mol/s}$	2159 $\mu\text{mol/s}$	2879 $\mu\text{mol/s}$
<b>Light Output Total (PPF 350-800nm)</b>	<b>1550 <math>\mu\text{mol/s}</math></b>	<b>2317 <math>\mu\text{mol/s}</math></b>	<b>3089 <math>\mu\text{mol/s}</math></b>
PAR Photon Efficacy (400-700nm)	2.67 $\mu\text{mol/J}$ @ 230-240V AC	2.7 $\mu\text{mol/J}$ @ 230-240V AC	2.7 $\mu\text{mol/J}$ @ 230-240V AC
Total Photon Efficacy (350-800nm)	2.87 $\mu\text{mol/J}$ @ 230-240V AC	2.9 $\mu\text{mol/J}$ @ 230-240V AC	2.9 $\mu\text{mol/J}$ @ 230-240V AC
AC Input Power	540W @ 230-240V AC	799W @ 230-240V AC	1065W @ 230-240V AC
AC Input Voltage	120-277V AC, 50/60Hz		
Beam Angle	90° x 120°		
Optics	<b>Patented</b> Deep Penetration Ultra High Transmittance Lens		
Auxiliary Light	<b>Patented</b> Light Pipe Multi Color 65k		
Proximity sensor	Doppler Radar		
Mounting Height Above Canopy	20-50 cm / 7.8-19.7 in	30-65 cm / 11.8-25.5 in	40-85 cm / 15.7-31.4 in
Thermal Management	Passive		
Max. Ambient Temperature	40°C / 105°F		
Control	By Maxi Controller or Internal Controller		
Smartports (3x)	Interlink, Plant Temperature Sensor, Light Sensor		
Display For Spectrum and GUI	1.54" 65k Color IPS		
Total Harmonic Distortion (THD)	< 10%		
Lifetime L90	> 50,000h		
IP Rating	IP65		

## AVAILABLE SOON

### SUPPLEMENTAL HIGH POWER UV-B GROW LIGHT DIMLUX XTREME UV-B ADD ON 25W OR 17W HE T5

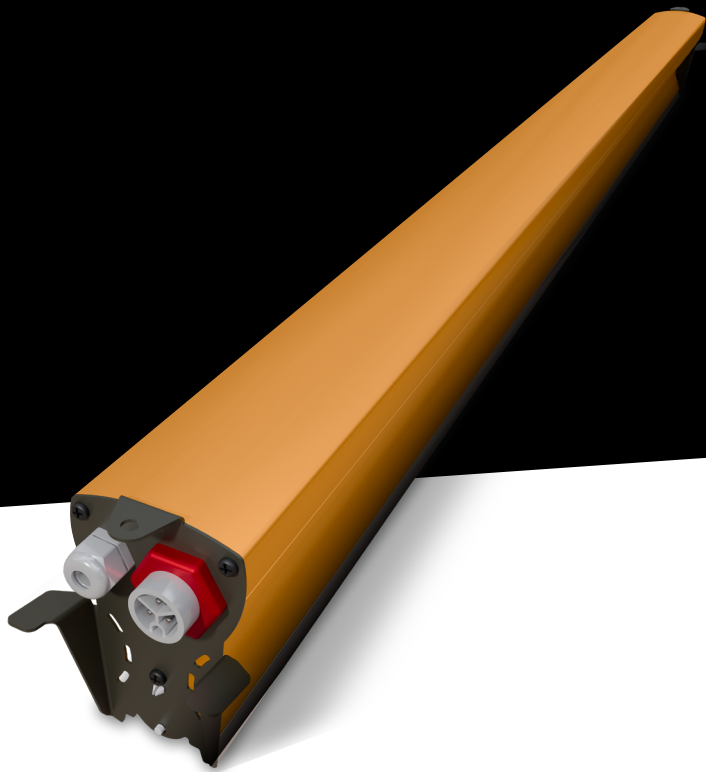
#### UV-B BROADBAND

Increases potency and resin production which brings out flavonoids and terpenes, like UV-A, but much more powerful. Suppresses pathogens, fungi and spider mites. Ideal when combined with a UV-A Add-on, which increases UV-B resistance of DNA, proteins, and nucleic acids in plant cells. When UV-A and UV-B are combined in the right amounts and for the right duration, they have a synergistic stress response effect that makes them even more potent while also being less harmful than UV-B alone.



Coming soon

# DIMLUX XTREME UV-B ADD ON



## **SUPPLEMENTAL HIGH POWER UV-B GROW LIGHT** **DIMLUX XTREME UV-B ADD ON 25W AND 17W HE T5**

Increases potency and resin production which brings out flavonoids and terpenes, like UV-A, but much more powerful. Suppresses pathogens, fungi and spider mites.

**DIMLUX**

@ The Climate Factory 2023

