

DIMLUX XTREME SERIES LED +NIR



BUYING GUIDE WHY ARE THE DIMLUX
EXTREME SERIES LED SUPERIOR AND
WETHER OR NOT TO BUY EXTRA NIR

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FEATURES	OTHER BRANDS	WITHOUT NIR	+NIR	WITHOUT NIR,+ NIR ADD-ON	+ NIR, AND NIR ADD-ON
Integrated controller with IPS display	✗	✓	✓	✓	✓
Can be a controller for other fixtures	✗	✓	✓	✓	✓
Support for add-on fixtures to expand the spectrum	✗	✓	✓	✓	✓
Updates via Wi-Fi	✗	✓	✓	✓	✓
Can monitor plant temperature	✗	✓	✓	✓	✓
Smart Protocol for fully centralized control	✗	✓	✓	✓	✓
PhytoVegSpec® adjustable spectrum grounded on research	✗	✓	✓	✓	✓
Quantifiable B:R ratio	✗	✓	✓	✓	✓
Easy interoperability with 3rd party brands	Sometimes	✓	✓	✓	✓
Patented ultra high transmittance lens that results in deep canopy light penetration	✗	✓	✓	✓	✓
Red light cycling which increases flavonoids and cannabinoids and increases yield according to this research	✗	✓	✓	✓	✓
RGB 16M color auxiliary light with patented light pipe	✗	✓	✓	✓	✓
Radar movement sensor	✗	✓	✓	✓	✓
Smartports (3x) for interlink, add-ons, and sensors	✗	✓	✓	✓	✓
Stem elongation	⊕	⊕	⊕	⊕ → ⊕ Adjustable	⊕ → ⊕ Adjustable
Flower induction	✗	✗	✗	⊕	⊕
Steering light function	✗	✗	✗	✓	✓
Accelerate wake phase	✗	✗	✗	✓	✓
Accelerate sleep phase	✗	✗	✗	✓	✓
Shortened night and extended day	✗	✗	✗	⊕	⊕
Increased photosynthesis through extra photons	✗	✗	✗	✓	✓
Increased photosynthesis through synergetic effect	✗	✗	✓	✓	✓

With this innovative LED fixture, Dimlux sets a benchmark for horticultural lighting.

With patented technology, advances in LED technology, and optimal thermal design, the **Dimlux Xtreme Series 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.

The **Dimlux Xtreme Series LED** produces ultra-high levels of PPFD, evenly spread over a 1.5x1.5 m grow area, with a full grow spectrum, producing consistently high quality & high yield indoor crops.

The **Dimlux Xtreme Series LED** can be dimmed without losing efficiency. The spectrum and output power can be programmed depending on the time of day and the growing stage of the crop.

Auxiliary RGB LEDs with over 65k colors can be used as supplemental light and can be used as green work light in the dark phase. The work light can automatically be switched on by the internal radar proximity sensor.

PHYTOVEGSPEC® INDOOR +NIR

Our adjustable PhytoVegSpec® Indoor +NIR 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.

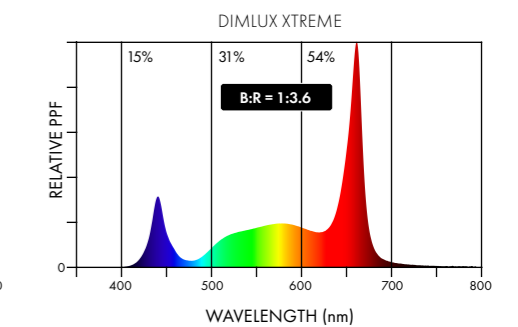
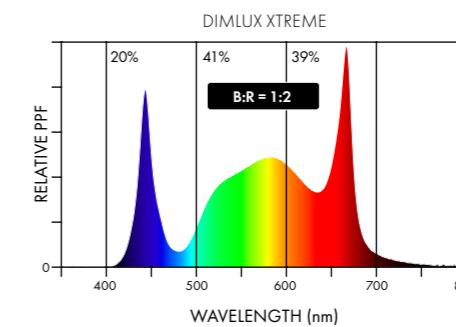
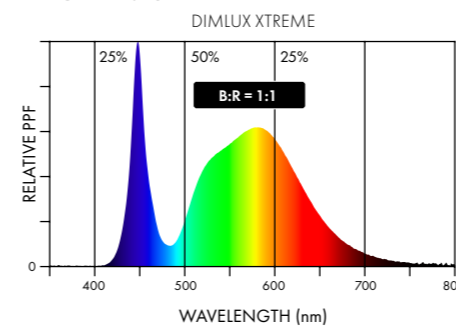
NIR stands for Near InfraRed spectroscopy, and it refers to the analytical technique of using near-infrared radiation to analyse samples for compositional or characteristic traits.

NIR is a region of the electromagnetic spectrum that has unique properties which make it very useful for characterizing materials. The NIR region is from 700 to 2500 nm. Light in this region interacts with OH, NH and CH bonds and certain wavelengths (frequencies) are associated with each bond type.

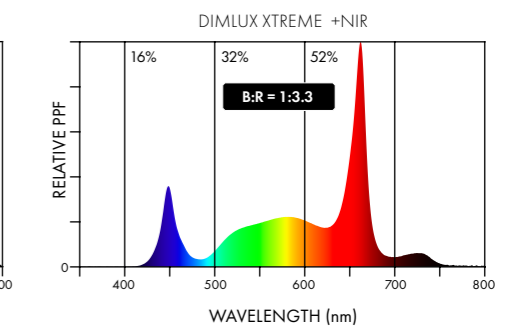
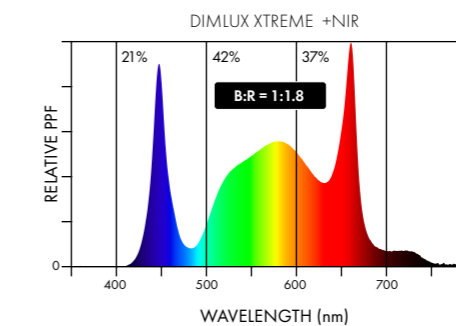
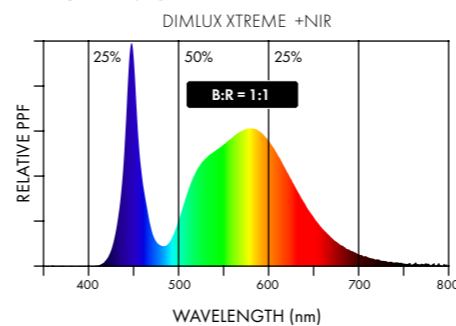
Without NIR: Make maximum use of the possibilities to accelerate the sleep rhythm with the help of the additional add-on luminaire with NIR. It makes it possible to shorten the night and lengthen the day. By getting the plant "awake" as quickly as possible, maximum acceleration to flower setting will be achieved.

With NIR: The +NIR fixtures have extra far red light that is used together with red. The extra far red provides a more complete spectrum, increased photosynthesis, increased photon absorption and an increased yield due to modified morphology. The plant will stretch a little more than with the normal version without NIR. When using the add-on fixture with +NIR you gain the same benefits as the normal version only without the effect of "waking up" the plant as quickly as possible to accelerate the flower setting and possibly shorten the night and lengthen the day.

PhytoVegSpec® Indoor



PhytoVegSpec® +NIR Indoor



**THE FUTURE OF GROWING
JUST GOT BRIGHTER.**



Made in Holland www.dimlux.nl