

# PHOTONTEK

HORTICULTURAL LIGHTING

# CATALOGUE 2023

**Photontek is created, designed and engineered by growers.  
Producing high-performance lighting fixtures through  
experience and knowledge.**

Here you will find the best LED Lights for Hydroponics and General Horticulture.

[WWW.PHOTONTEK-LIGHTING.COM](http://WWW.PHOTONTEK-LIGHTING.COM)



# WELCOME BACK GROWER

**2023 WILL BE A BRIGHT YEAR FOR US ALL IN THE GROWER COMMUNITY. PHOTONTEK IS IN ITS RIGHTFUL PLACE, AS A PROFESSIONAL, HIGH END, QUALITY, CUSTOMER SATISFACTION DRIVEN HORTICULTURAL LIGHTING COMPANY.**

That is why Photontek is focused on providing all types of grower - both hobby and large horticultural projects - with a streamlined, world-class selection of high powered and elegant LED light fixtures, that simply outperform in efficiency, array, performance and design.

**Welcome to the exciting Photontek Lighting LED range and join us in a new era of quality lighting for North American growers.**



**OUTSTANDING LIGHT SPREAD, COVERAGE AND UNIFORMITY:** PhotonTek LEDs will ensure an optimal coverage in which photons are delivered uniformly through all the entire canopy, avoiding PPF discrepancies on all footprints.



**MAINTENANCE FREE:** Our LEDs are rated for 60,000 hours of use and our fixtures are supported by a market-best 5 Year warranty, creating a trustworthy source of products.



**EXCEPTIONAL LIGHT SPECTRUM:** Light Quality is a crucial area when developing our complete LED range. We offer an optimized Full-Spectrum for full-cycle indoor solutions and specific Spectrums for Greenhouse, Nurseries, Vertical Farming and Supplemental Light applications.



**LESS HEAT:** PHOTONTEK's highly efficient diodes produce less heat waste and more light than many competitor products. We use our unique heat convection design that disperses remaining heat above the fixture. This avoids trapping excess heat below the fixture which can negatively affect your crop, making heat management easier than ever.



**LESS ENERGY:** PHOTONTEK lighting fixtures have the ability to save growers an outstanding 40% on their energy bill compared to commonly used HID kits. Making LEDs undoubtedly a more efficient and eco-friendly choice.



**SAFETY PROTECTION:** Built with smart-safety capabilities for full circuit protection, PHOTONTEKs drivers prevent over/under voltage, short-circuiting and overheating failures. All PHOTONTEK LED fixtures are CSA, FCC and IC Certified and Compliant.



**MORE LIGHT, MORE LIFE:** LEDs have been tried, tested and proven by industry experts to increase yield and crop quality, leading to medicinal standards products every harvest.



**MODULAR LIGHT CONTROL:** A dimmable unit gives you the ability to adjust the PPF levels produced and adapt to all crops and growth stages. Enhanced by an auto-power (increase/decrease) feature to match the number of light bars connected to fixture. That's adaptability!



# X PRO

## LED RANGE

Industry leading performance by perfectly balancing a high quality, full spectrum light with highest intensity PPFd delivered through a multi-bar, linear design. PHOTONTEK Creates the ultimate ceiling of light for the entire plant growth cycle, by using only the highest-grade materials and components.

SOLD IN EUROPE AS THE **ZEUS PRO LED RANGE**



FULL-SPECTRUM

# P-TEK XT 1000W CO2 PRO LED

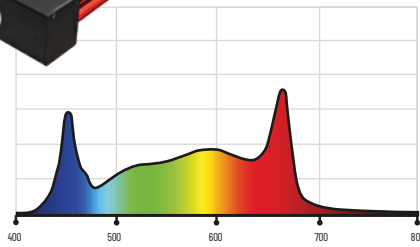
THE MOST POWERFUL LED GROW LIGHT ON THE MARKET DESIGNED FOR 5'X5' COVERAGE WITH CO2 SUPPLEMENTAL

2925  $\mu\text{mol/s}$



## SQD GRAPH

WL (nm)



## KEY FEATURES

- Highest Market Fixture Efficacy 2.9  $\mu\text{mol/J}$
- High PPFD output for high intensity 2925  $\mu\text{mol/s}$
- Lowest \$/ $\mu\text{mol}$
- World Class Diodes & Drivers
- Designed to produce ultra-high PPFD for CO2 supplemented Grow Areas
- CO2 Supplemental: A ratio of 1:1 CO2 PPM should be added once a PPFD of 1000  $\mu\text{mol/s/m}^2$  is exceeded
- New Clear Glue Technology on the LED Bars Protection Cover
- Optimized Full-Spectrum
- Detachable Driver
- Fully Dimmable
- External Control with P-TEK Digital Controller
- Interchangeable Magnet LED Bars
- User Friendly & Easy Set-Up
- 5 Year Warranty

## KEY SPECIFICATIONS

**PRODUCT CODE:** PTEKLED020

**EFFICACY:** 2.9  $\mu\text{mol/J}$

**PPF:** 2925  $\mu\text{mol/s}$

**INPUT VOLTAGE:** 120-277V, 50-60HZ

**INPUT POWER:** 1025W (100% 120V); 988W (100% 240V); 986W (100% 277V);

**FOOTPRINT:** 5'x5' with Supp. CO2; 6'x6' without Supp. CO2 used at higher heights.

**WATERPROOF:** IP65

**LIFETIME:** 60 000 hrs

**LIGHT DISTRIBUTION:** 120°

**LIGHT SOURCE:** Higher Spec Osram and Lumileds Diodes

**DIMMABLE:** OFF-25%-50% -75% -100% with 0-10V Light Dimmer (Included)

**EXTERNAL CONTROL:** With P-TEK Digital Controller

**WEIGHT:** 39.68 LBS

**DIMENSIONS:** 46.50" x 42.95" x 4.16"

**SPECTRUM:** Full Spectrum

## WHAT'S IN THE BOX

- 10 x P-TEK 100W 2.9 Full-Spectrum Magnet LED Bars
- 1 x P-TEK 1000W Driver with Connecting Cables
- 1 x LED Structure with Connecting Cables
- 1 x Power Cable with NEMA 5-15P 120V Plug (NEMA 6-15P 240V also available)
- 1 x 0-10V Light Dimmer + Velcro
- 2 x Metal Cable Hangers
- 1 x Manual

2925  $\mu\text{mol/s}$  PPF

2.9  $\mu\text{mol/J}$  EFFICIENCY



# P-TEK X 1000W PRO LED

FULL-SPECTRUM

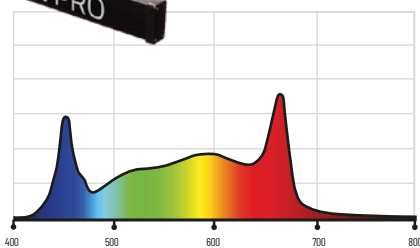
A PERFECT SOLUTION FOR HOME-GROW, GROW TENTS, GROW ROOMS AND ALL KINDS OF INDOOR CULTIVATIONS UP TO 6.5' X 5' COVERAGE.

2925  $\mu\text{mol/s}$



## SQD GRAPH

WL (nm)



## KEY FEATURES

- Highest Market Fixture Efficacy 2.9  $\mu\text{mol/l}$
- High PPF output for high intensity 2925  $\mu\text{mol/s}$
- Lowest  $\$/\mu\text{mol}$
- World Class Diodes & Drivers
- Optimized Full-Spectrum
- Fully Dimmable
- External Control with P-TEK Digital Controller
- Interchangeable Magnet LED Bars
- User Friendly & Easy Set-Up
- 5 Year Warranty

## KEY SPECIFICATIONS

**PRODUCT CODE:** PTEKLED025  
**EFFICACY:** 2.9  $\mu\text{mol/l}$   
**PPF:** 2925  $\mu\text{mol/s}$   
**INPUT VOLTAGE:** 1000W 120V-277V  
with Twist Lock capability  
**INPUT POWER (100%):**  
1005W (277V); 1025W (120V)  
**FOOTPRINT:** 5' x 6,5'  
**WATERPROOF:** IP65

**LIFETIME:** 60 000 hrs  
**LIGHT DISTRIBUTION:** 120°  
**LIGHT SOURCE:** LUMILEDS & Osram diodes  
**DIMMABLE:** OFF-25%-50% -75% -100%  
with 0-10V Light Dimmer (Included)  
**EXTERNAL CONTROL:** With P-TEK Digital Controller  
**WEIGHT:** 39.68 LBS  
**DIMENSIONS:** 66.92" x 48" x 1.9"  
**SPECTRUM:** Full Spectrum

## WHAT'S IN THE BOX

- 10 x P-TEK 100W Pro 2.9 Full-Spectrum Magnet Light Bars
- 1 x Foldable Frame Structure with 2 x 500W Pro Incorporated Drivers + Connecting Cables
- 2 X Metal Plates Fixed in Structure to ensure fixture balances
- 1 x 0-10V Light Dimmer + Velcro
- 4 x Metal Cable Hangers
- 1 x Manual

2.9  
 $\mu\text{mol}$

/ / EFFICIENCY



5

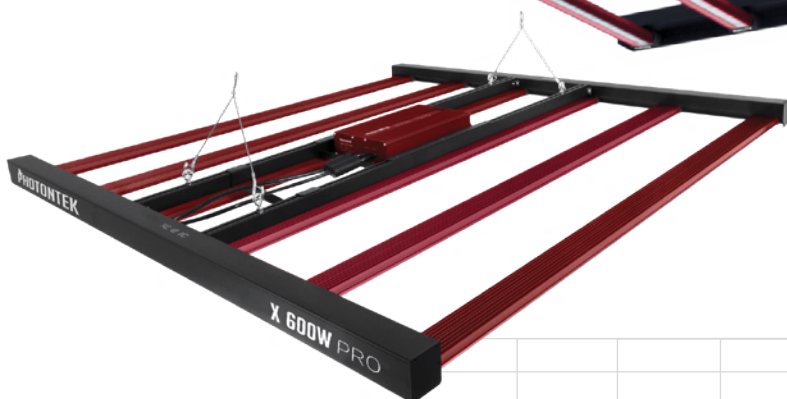
YEAR  
WARRANTY

# P-TEK X 600W PRO LED

FULL-SPECTRUM

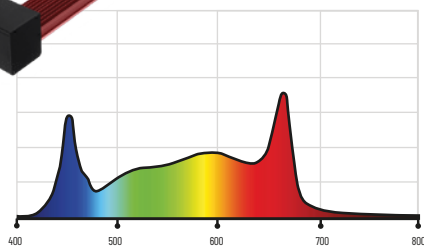
A PERFECT SOLUTION FOR HOME-GROW, GROW TENTS, GROW ROOMS AND ALL KINDS OF INDOOR CULTIVATIONS UP TO 4.5'X4.5' COVERAGE.

1620  $\mu\text{mol/s}$



## SQD GRAPH

WL (nm)



## KEY FEATURES

- Highest Market Fixture Efficacy 2.7  $\mu\text{mol/l}$
- High PPF output for high intensity 1620  $\mu\text{mol/s}$
- Lowest  $\$/\mu\text{mol}$
- World Class Diodes & Drivers
- Optimized Full-Spectrum
- Detachable driver
- Fully Dimmable
- External Control with P-TEK Digital Controller
- Interchangeable Magnet LED Bars
- User Friendly & Easy Set-Up
- 5 Year Warranty

## KEY SPECIFICATIONS

**PRODUCT CODE:** PTEKLED018  
**EFFICACY:** 2.7  $\mu\text{mol/l}$   
**PPF:** 1620  $\mu\text{mol/s}$   
**INPUT VOLTAGE:** 120-277V, 50-60Hz  
**INPUT POWER:** 600W  
**FOOTPRINT:** 4' x 4' - 5' x 5'  
**WATERPROOF:** IP65  
**LIFETIME:** 60 000 hrs

**LIGHT DISTRIBUTION:** 120°  
**LIGHT SOURCE:** LUMILEDS & Osram diodes  
**DIMMABLE:** OFF-25%-50%-75%-100%  
with 0-10V Light Dimmer (Included)  
**EXTERNAL CONTROL:** With P-TEK Digital Controller  
**WEIGHT:** 29.76 Lbs  
**DIMENSIONS:** 42.95" x 46.55" x 3.23"  
**SPECTRUM:** Full Spectrum

## WHAT'S IN THE BOX

- 6 x P-TEK 100W Full-Spectrum Magnet Light Bars
- 1 x P-TEK 600W Driver with Connecting Cables
- 1 x LED Structure with Connecting Cables
- 1 X 120V Power cord (NEMA 5-15P plug)
- 1 x 0-10V Light Dimmer + Velcro
- 2 x Metal Cable Hangers
- 1 x Manual

2.7  
 $\mu\text{mol}$

// EFFICIENCY



5

YEAR  
WARRANTY

FULL-SPECTRUM

# P-TEK X 465W PRO LED

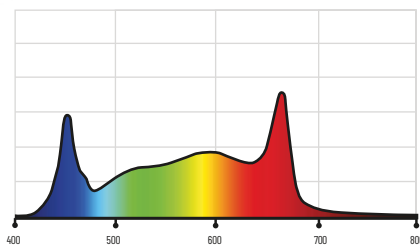
A PERFECT SOLUTION FOR HOME-GROW, GROW TENTS, GROW ROOMS AND ALL KINDS OF INDOOR CULTIVATIONS UP TO 4'X4' COVERAGE.

1256  $\mu\text{mol/s}$



## SQD GRAPH

WL (nm)



## KEY FEATURES

- Highest Market Fixture Efficacy 2.7  $\mu\text{mol/l}$
- High PPF output for high intensity 1256  $\mu\text{mol/s}$
- Lowest \$/ $\mu\text{mol}$
- World Class Diodes & Drivers
- Optimized Full-Spectrum
- Detachable driver
- Fully Dimmable
- External Control with P-TEK Digital Controller
- Interchangeable Magnet LED Bars
- User Friendly & Easy Set-Up
- 5 Year Warranty

## KEY SPECIFICATIONS

**PRODUCT CODE:** PTEKLED019  
**EFFICACY:** 2.7  $\mu\text{mol/l}$   
**PPF:** 1256  $\mu\text{mol/s}$   
**INPUT VOLTAGE:** 120-277V, 50-60Hz  
**INPUT POWER:** 465W  
**FOOTPRINT:** 3,3' x 3,3' - 4 x 4'  
**WATERPROOF:** IP65  
**LIFETIME:** 60 000 hrs

**LIGHT DISTRIBUTION:** 120°  
**LIGHT SOURCE:** LUMILEDS & Osram diodes  
**DIMMABLE:** OFF-25%-50% -75% -100%  
with 0-10V Light Dimmer (Included)  
**EXTERNAL CONTROL:** With P-TEK Digital Controller  
**WEIGHT:** 24.25 Lbs  
**DIMENSIONS:** 39.29" x 35.43" x 2.92"  
**SPECTRUM:** Full Spectrum

## WHAT'S IN THE BOX

- 5 x P-TEK 93W Full-Spectrum Magnet LED Bars
- 1 x P-TEK 465W Driver with Connecting Cables
- 1 x LED Structure with Connecting Cables
- 1 x Power Cable
- 1 x 0-10V Light Dimmer + Velcro
- 2 x Metal Cable Hangers
- 1 x Manual

2.7  
 $\mu\text{mol}$

// EFFICIENCY



5 YEAR  
WARRANTY

# SQ PRO

## LED RANGE

Designed specifically for tighter and more compact spaces, the low wattage SQ Pro line will deliver the best light spectra on the market combined with very-high PPFd levels.

SOLD IN EUROPE AS THE **ATS PRO LED RANGE**





FULL-SPECTRUM

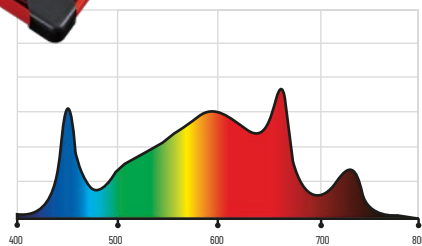
# P-TEK SQ300W PRO LED

A PERFECT COMPACT AND POWERFUL LED GROW LIGHT FOR TIGHT SPACES UP TO 3.3'X3.3' COVERAGE.



## SQD GRAPH

WL (nm)



## KEY FEATURES

High Fixture Efficacy 2.7  $\mu\text{mol}/\text{J}$

High PPF output for high intensity 816  $\mu\text{mol}/\text{s}$

Lowest  $\$/\mu\text{mol}$

World Class Diodes & Drivers

Optimized light spread and uniformity

New Clear Glue Technology on the LED Bars Protection Cover

Compact design ideal for up to 3.3'x3.3' grow area

Balanced Full-Spectrum by White, Red & Far Red Diodes combination

Fully Dimmable

External Control with P-TEK Digital Controller

User Friendly & Easy Set-Up

## KEY SPECIFICATIONS

**PRODUCT CODE:** PTEKLED024

**EFFICACY:** 2.7  $\mu\text{mol}/\text{J}$

**PPF:** 816  $\mu\text{mol}/\text{s}$

**INPUT VOLTAGE:** 120-277V, 50-60Hz

**INPUT POWER (100%):** 310W

**INPUT CURRENT (100%):** 2.72A (120V);

1.4A (230V); 1.16A (277V)

**FOOTPRINT:** UP TO 3.3'X3.3'

**WATERPROOF:** IP65

**LIFETIME:** 60 000 hrs

**LIGHT DISTRIBUTION:** 120°

**LIGHT SOURCE:** Higher Spec White, Red & Far Red Diodes

**DIMMABLE:** OFF-25%-50%-75%-100%

with 0-10V Light Dimmer (Included)

**EXTERNAL CONTROL:** With P-TEK Digital Controller

**WEIGHT:** 11.46 Lbs

**DIMENSIONS:** 22.08"x22.08"x2.82"

**SPECTRUM:** Full Spectrum

**BTU:** 1051 BTUs/h

## WHAT'S IN THE BOX

- 1 x P-TEK SQ300W Pro LED Fixture with Driver
- 1 x Power Cable 120V
- 1 x 0-10V Light Dimmer + Velcro
- 2 x Metal Cable Hangers
- 1 x Manual

2.7  
 $\mu\text{mol}$

/ J EFFICACY



3

YEAR  
WARRANTY

# P-TEK SQ200W PRO LED

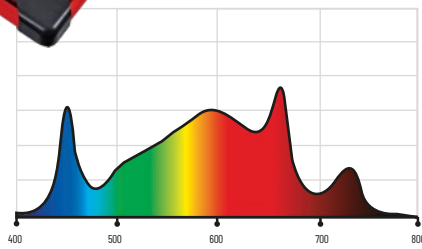
FULL-SPECTRUM

A PERFECT COMPACT AND POWERFUL LED GROW LIGHT FOR TIGHT SPACES UP TO 2.6'X2.6' COVERAGE.



## SQD GRAPH

WL (nm)



## KEY FEATURES

High Fixture Efficacy 2.5  $\mu\text{mol}/\text{J}$

High PPF output for high intensity 508  $\mu\text{mol}/\text{s}$

Lowest  $\$/\mu\text{mol}$

World Class Diodes & Drivers

Optimized light spread and uniformity

New Clear Glue Technology on the LED Bars Protection Cover

Compact design ideal for up to 2.6'x2.6' grow area

Balanced Full-Spectrum by White, Red & Far Red Diodes combination

Fully Dimmable

External Control with P-TEK Digital Controller

User Friendly & Easy Set-Up

## KEY SPECIFICATIONS

**PRODUCT CODE:** PTEKLED023

**EFFICACY:** 2.5  $\mu\text{mol}/\text{J}$

**PPF:** 508  $\mu\text{mol}/\text{s}$

**INPUT VOLTAGE:** 120-277V, 50-60Hz

**INPUT POWER (100%):** 205W

**INPUT CURRENT (100%):** 1.76A (120V); 0.9A (230V); 0.75A (277V)

**FOOTPRINT:** UP TO 2.6'X2.6'

**WATERPROOF:** IP65

**LIFETIME:** 60 000 hrs

**LIGHT DISTRIBUTION:** 120°

**LIGHT SOURCE:** Higher Spec White, Red & Far Red Diodes

**DIMMABLE:** OFF-25%-50% -75% -100%

with 0-10V Light Dimmer (Included)

**EXTERNAL CONTROL:** With P-TEK Digital Controller

**WEIGHT:** 8.82 Lbs

**DIMENSIONS:** 20.65"x20.65"x2.82"

**SPECTRUM:** Full Spectrum

**BTU:** 703 BTUs/h

## WHAT'S IN THE BOX

- 1 x P-TEK SQ200W Pro LED Fixture with Driver
- 1 x Power Cable 120V
- 1 x 0-10V Light Dimmer + Velcro
- 2 x Metal Cable Hangers
- 1 x Manual

2.5  
 $\mu\text{mol}$

/ J EFFICACY



3

YEAR  
WARRANTY

# INDOOR SUPPLEMENTAL LIGHT **LED RANGE**

Introducing the new PHOTONTEK indoor supplemental led range. Complement your grow light output in quantity (light intensity) and quality (light spectrum).



# P-TEK 100W INDIVIDUAL SUPPLEMENTAL LIGHT LED BAR

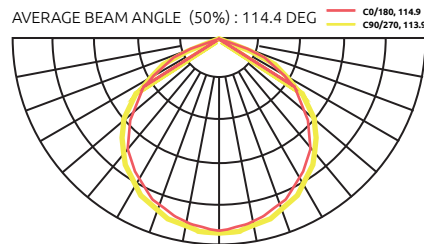
FULL-SPECTRUM

FLEXIBLE AND DYNAMIC SOLUTION TO IMPROVE YOUR GROW RESULTS. YOU CAN EITHER USE IT AS AN ADD ON FOR YOUR GROW SPACE THAT LACKS LIGHT INTENSITY, PLACING IT ON THE TOP, SIDE, OR BOTTOM, OR JUST USE IT AS PROPAGATOR.

295  $\mu\text{mol/s}$

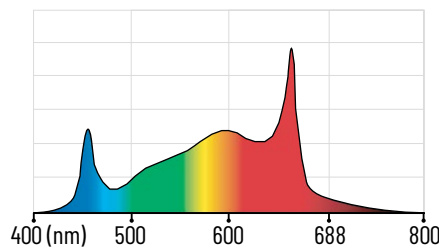
COMING SOON

## Distribution Curve Flux



## SQD GRAPH

WL (nm)



## KEY FEATURES

- Highest Market Fixture Efficacy 2.9  $\mu\text{mol/J}$ .
- High PPF output for high intensity 295  $\mu\text{mol/s}$ .
- High quality Lumatek 100W LED remote driver included.
- New Clear Glue protection cover technology on the LED bar
- Lowest \$/ $\mu\text{mol}$ .
- World Class Diodes & Drivers.
- Optimized Full-Spectrum.
- Fully Dimmable
- External Control with P-TEK Digital Controller
- User Friendly & Easy Set-Up
- 5 Year Warranty

## KEY SPECIFICATIONS

**PRODUCT CODE:** PTEKLED026  
**EFFICACY:** 2.9  $\mu\text{mol/J}$   
**PPF:** 295  $\mu\text{mol/s}$   
**INPUT VOLTAGE:** 120-277V, 50-60 Hz  
**INPUT POWER:** TBA  
**LIFETIME:** 60000 hrs  
**LIGHT DISTRIBUTION:** 120°

**LIGHT SOURCE:** LUMILEDS & Osram diodes  
**DIMMABLE:** OFF-25%-50% -75% -100%  
 with 0-10V Light Dimmer (Sold Separately)  
**EXTERNAL CONTROL:** With P-TEK Digital Controller  
**WEIGHT:** 2.43 LBS  
**DIMENSIONS:** 45.2" x 0.8" x 2.1"  
**SPECTRUM:** Full Spectrum +

## WHAT'S IN THE BOX

- 1 x P-TEK 100W Full-Spectrum Individual Supplemental Light LED Bar
- 2 x Metal Hooks
- 1 x P-TEK 100W Driver With Connecting Cables (Power and Dimming)
- 1 x Manual

2.9  
 $\mu\text{mol}$

/ J EFFICIENCY



5 YEAR WARRANTY

# P-TEK 30W UV SUPPLEMENTAL LED BAR

FULL-SPECTRUM

THIS 30W UV LED BAR WAS DESIGNED TO FIT DIRECTLY INTO THE X AND XT FRAMES OR CAN ALSO BE USED AS A SINGLE FIXTURE.



COMING SOON

UV-B + UV-A

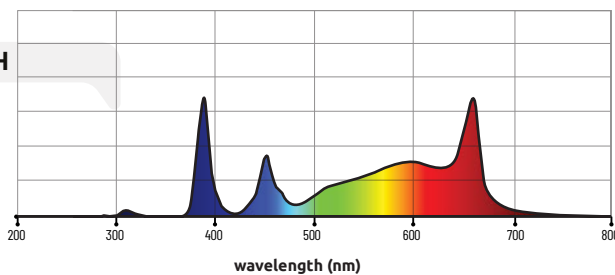
## RECOMMENDED UV-B + UV-A RADIATION APPLICATION

Always mix the supplemental UVB + UVA radiation with the previously mentioned Spectrum LED Range, starting from 12 hours photoperiod to less during the Flowering grow stage, at least 4 weeks before harvest.

For a good UV radiation spread, ensure to install the recommended minimum units and follow the distance to canopy referenced on the Grow Light Strategies table. If you notice plant damage, we recommend to increase the distance between fixture and canopy or decrease the UV light output delivered to your plants by reducing the photoperiodic time.

### SQD GRAPH

WL (nm)



## KEY FEATURES

Increase raw substances levels.

Control mold formation.

Reduce chemical interventions needs.

Flavour & Taste impacts.

Extends plants shelf life.

Attachable to all P-TEK X and XT versions.

Optimized UV-B + UV-A Spectra.

Daisy-chain connectivity.

User Friendly & Easy Set-Up.

1 Year Warranty.

## KEY SPECIFICATIONS

**PRODUCT CODE:** PTEKLED027

**UV-B (280-315 nm):** 100 mW

**UV-A (315-400 nm):** 1200 mW

**INPUT VOLTAGE:** 120-277V, 50-60 Hz

**INPUT POWER:** 30 W

**WATERPROOF:** IP65

**LIFETIME:** 8500 hrs

**LIGHT DISTRIBUTION:** 140°

**LIGHT SOURCE:** UV-B and UV-A Domestic Diodes

**DIMMABLE:** No

**EXTERNAL CONTROL:** No

**WEIGHT:** 2.65 LBS

**DIMENSIONS:** 39.37" x 1.9" x 1.7"

**SPECTRUM:** UV-B + UV-A

## WHAT'S IN THE BOX

- 1 x 30W UV SUPPLEMENTAL LIGHT LED BAR
- 2 x Metal Hook

SOLD SEPARATELY

- UV Bar Power Cable PTEKM0025
- UV Bar Daisy Chain Cable PTEKM0026



# LED ACCESSORIES

## LED RANGE

Have maximum power over your Photontek LED Range with the right accessories and add-on's.



# P-TEK DIGITAL CONTROLLER

Using the newest tech available, this smart-feature accessory will quickly become your best grow mate as it constantly monitors and helps maintaining your environmental temperatures, lighting schedules & intensity automation.



## KEY FEATURES

Control panel for up to 100 LED drivers

Compatible with all PhotonTek Controllable LED Drivers & Fixtures

24hr Light scheduling and switching, including the ability to simulate sunrise and sunset periods, for perfectly imitating natural environments.

Light Timing

Temperature-control dimming & switching for safety control

Automate light intensity and therefore your PPFD totals for specific times.

Accurate dimming control of increments of 1%



## KEY SPECIFICATIONS

**PRODUCT CODE:** PTEKM0017

**POWER:** Adaptor 100 – 277V

AC 50/60Hz – DC 5V/2A

**MATCH LED DRIVER:** All PhotonTek Controllable LED Drivers

**POWER DIMMING RANGE:** 0% - 100%

**POWER REGULATION ACCURACY:** 1%

**TEMPERATURE-CONTROLLED**

**SAFETY DIMMING RANGE:** 0°C-40°C

**TEMPERATURE-CONTROLLED**

**SAFETY SWITCHING RANGE:** 10°C-50°C

**SUNRISE AND SUNSET DURATION:** 0-30 min

**DIMENSIONS:** 4,9" x 3,15" x 0,98"

## WHAT'S IN THE BOX

- 1 x P-TEK Digital Controller
- 1 x Power adaptor and cable
- 2 x Temperature sensor 5m cable
- 2 x LED control link cable

## LED CABLES

### P-TEK LED DAISY CHAIN 5M CONTROL CABLE

**PRODUCT CODE:** PTEKM0018

This 5m long Control Link Cable is designed to daisy-chain your PhotonTek Controllable LED Fixtures allowing a stable and precise connection without any interference



### P-TEK LED DRIVER 5M EXTENSION CABLES

**PRODUCT CODE:** PTEKM0019

These two 5m long Extension Cables are designed to connect the PhotonTek driver and LED fixture, in case the driver is used remote and away of the fixture. Suitable for P-TEK X 465W Pro and P-TEK X 600W Pro LED fixtures



### P-TEK LED DRIVER + DIMMING 5M EXTENSION CABLES FOR XT 1000W CO2 (X3)

**PRODUCT CODE:** PTEKM0022

These three 5m long Extension Cables are designed to connect the PhotonTek driver and LED fixture, in case the driver is used remote and away of the fixture.



# LED GROW LIGHT

# CALCULATOR

Now available to all, ready to calculate and **Help Growers Grow!**

Here you will be able to find the best Photontek fixtures for your grow, either by footprint, wattage or usable efficiency to achieve optimal light distribution and plant growth. It's an easy to use tool, designed with growers in mind, where you just have to enter the length and width dimension of your grow area. Fully linked to our website, find product information, specsheets and useful videos!



1. Insert **length & width** of your grow space

2. Calculate

3. Find the **best setup** for you



Also featuring a useful glossary

### • WHAT IS PPFD ?

PPFD stands for photosynthetically Photon Flux Density expressed in  $\mu\text{mol}/\text{m}^2/\text{s}$ , designates the spectral range (wave band) of solar radiation from 400 to 700 nanometers that photosynthetic organisms are able to use in the process of photosynthesis.

### • WHAT IS CO<sub>2</sub> ?

CO<sub>2</sub> stands for carbon dioxide molecules consist of a carbon atom covalently double bonded to two oxygen atoms. During photosynthesis, plants take in carbon dioxide and water (H<sub>2</sub>O) from the air and soil. Within the plant cell, the water is oxidized, meaning it loses electrons, while the carbon dioxide is reduced, meaning it gains electrons. This transforms the water into oxygen and the carbon dioxide into glucose.

### • WHAT IS $\mu\text{mol}/\text{W}$ ?

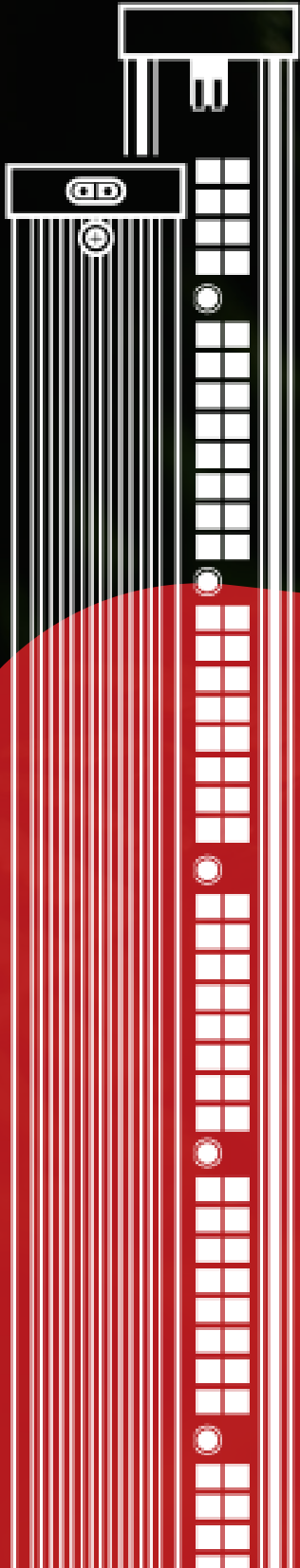
$\mu\text{mol}/\text{W}$  stands for usable efficiency and it describes the amount of PAR photons per Watt that are produced by a fixture and arrive to the plants. It describes the amount of light that will be available for photosynthesis. Usable efficiency is less than the total Photosynthetically Photon Flux (PPF) because some photons that are produced by the fixture are lost in radiance and reflection.

and more...



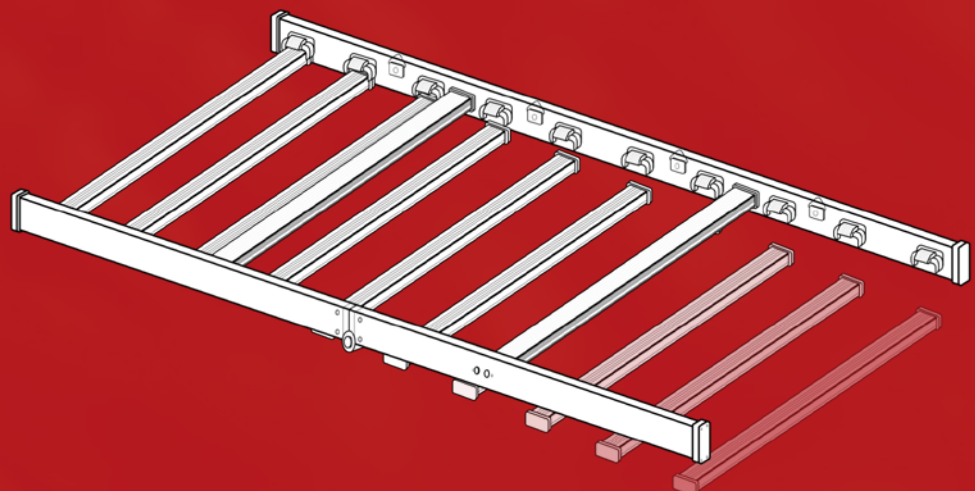
# MAGNETIC LED LIGHT BAR DESIGN

Photontek is the pioneer of the innovative, modular, magnetic LED light bar design when back in 2020, the Photontek X600W took the grow lighting industry and grower community by surprise with its power, practicality and sheer beauty.



**Our linear multi-light bar design makes our fixtures incredibly versatile with magnetic interchangeable and modular light bars.**

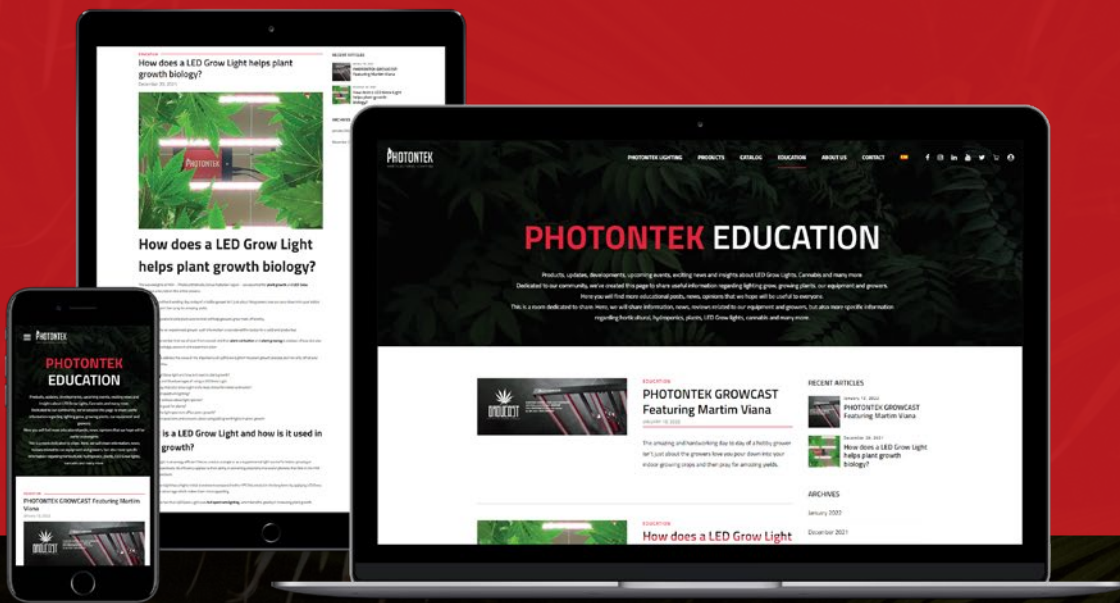
This technology and design, allows growers to not only operate as many light bars as needed, but to change or even upgrade individual light bars as well as having a secure and compact design that helps ensure a more secure packaging and protected shipping.



# THE NEW PHOTONTEK EDUCATION SECTION

2023 brings a great new addition to one of the most complete websites on the horticultural market.

The Photontek Education section is specially created for the grower community. Here Photontek regularly shares insightful and useful content.



Here you will find educational posts, rich technical content, horticultural market latest news, that will certainly be useful both for the experienced grower and to the hobby grower alike.

Helping Growers Grow is our mission as well as the betterment of our costumers growing skills. This new and regularly updated area is designed to achieve the important goal of sharing important knowledge, both as leading horticulture lighting manufacturers and - most importantly - together with the grower community that we respect and admire!


FIND OUT MORE AT

[WWW.PHOTONTEK-LIGHTING.COM](http://WWW.PHOTONTEK-LIGHTING.COM)

# GROW LIGHT STRATEGIES

The Photontek "LED Grow Light Strategies" is an extensive, in-depth and comprehensive document made by our experienced product development and technical department, to ensure you are making the most out of your Photontek set-up performance per product and grow stage.

This detailed grow strategy blueprint was designed by Photontek for more experienced growers that aim for continuous process perfection and growth efficiency, as well as for the hobby grower that is just getting started. In both cases, to help growers grow with the best Led Grow Lights on the market. Photontek of course!

Indoor Growing Stages LED Grow Light Strategies <small>By PHOTONTEK</small>		XT 1000W CO2 LED		X 1000W PRO LED		X 600W PRO LED		X 465W PRO LED		SQ200W PRO LED		SQ300W PRO LED	
													
Efficacy   PPF		2.9 $\mu\text{mol. J}^{-1}$	2925 $\mu\text{mol. s}^{-1}$	2.9 $\mu\text{mol. J}^{-1}$	2925 $\mu\text{mol. s}^{-1}$	2.7 $\mu\text{mol. J}^{-1}$	1620 $\mu\text{mol. s}^{-1}$	2.7 $\mu\text{mol. J}^{-1}$	1256 $\mu\text{mol. s}^{-1}$	2.5 $\mu\text{mol. J}^{-1}$	508 $\mu\text{mol. s}^{-1}$	2.7 $\mu\text{mol. J}^{-1}$	816 $\mu\text{mol. s}^{-1}$
Footprint		5' x 5' <sup>(*)</sup>		5' x 6.6' <sup>(*)</sup>		4' x 4' <sup>(*)</sup>		3' x 3' <sup>(*)</sup>		up to 2.6' x 2.6' <sup>(*)</sup>		up to 3.3' x 3.3' <sup>(*)</sup>	
Seedling Light Quality Full Spectrum Light Duration 24 ON / 0 OFF until cotyledons are open. 18 ON / 6 OFF seedlings.	Intensity (PPFD)	100-300 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-800 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	100-300 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-800 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	100-300 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-800 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	100-300 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-800 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	100-300 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-800 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	100-300 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-800 $\mu\text{mol. m}^{-2}\text{s}^{-1}$
	Distance canopy to the light	5'	5'	5'	5'	3.3'	1.6'	3.3'	1.6'	3.3'	12"	3.3'	1.6'
	Dimming (Power Consumption)	25% (256 W)	75% (769 W)	25% (256 W)	100% (1025 W)	25% (150 W)	100% (600 W)	25% (116W)	100% (465W)	50% (104 W)	100% (205 W)	50% (155 W)	100% (310 W)
	Supplemental CO <sub>2</sub> (ppm)	No	Yes ( $\pm$ 800 ppm)	No	Yes ( $\pm$ 800 ppm)	No	Yes ( $\pm$ 800 ppm)	No	Yes ( $\pm$ 800 ppm)	No	Yes ( $\pm$ 800 ppm)	No	Yes ( $\pm$ 800 ppm)
Clones Light Quality Full Spectrum Light Duration 18 ON / 6 OFF	Intensity (PPFD)	75-150 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-800 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	75-150 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-800 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	75-150 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-800 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	75-150 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-800 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	75-150 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-800 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	75-150 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-800 $\mu\text{mol. m}^{-2}\text{s}^{-1}$
	Distance canopy to the light	5'	5'	5'	5'	2.6'	1.6'	3.3'	12"	3.3'	12"	3.3'	1.6'
	Dimming (Power Consumption)	25% (256 W)	100% (1025 W)	25% (256 W)	100% (1025 W)	25% (150 W)	100% (600 W)	25% (116W)	100% (465 W)	50% (104 W)	100% (205 W)	25% (78 W)	100% (310 W)
	Supplemental CO <sub>2</sub> (ppm)	No	Yes ( $\pm$ 800 ppm)	No	Yes ( $\pm$ 800 ppm)	No	Yes ( $\pm$ 800 ppm)	No	Yes ( $\pm$ 800 ppm)	No	Yes ( $\pm$ 800 ppm)	No	Yes ( $\pm$ 800 ppm)
Mother's Light Quality Full Spectrum Light Duration 18 ON / 6 OFF	Intensity (PPFD)	400-500 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-600 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	400-500 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-600 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	400-500 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-600 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	400-500 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-600 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	400-500 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-600 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	400-500 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	500-600 $\mu\text{mol. m}^{-2}\text{s}^{-1}$
	Distance canopy to the light	3.3'	1.6'	3.3'	1.6'	1.6'	1.6'	1.6'	1.6'	1.6'	1.6'	1.6'	1.6'
	Dimming (Power Consumption)	50% (512 W)	50% (512 W)	75% (769 W)	75% (769 W)	75% (450 W)	100% (600 W)	75% (349 W)	100% (465 W)	75% (154 W)	100% (205 W)	50% (155 W)	100% (310 W)
	Supplemental CO <sub>2</sub> (ppm)	No	Yes ( $\pm$ 1100 ppm)	No	Yes ( $\pm$ 1100 ppm)	No	Yes ( $\pm$ 1000 ppm)	No	Yes ( $\pm$ 1000 ppm)	No	Yes ( $\pm$ 1100 ppm)	No	Yes ( $\pm$ 1400 ppm)
Vegetative Light Quality Full Spectrum Light Duration 18 ON / 6 OFF	Intensity (PPFD)	400-600 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	800-1000 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	400-600 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	800-1000 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	400-600 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	800-1000 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	400-600 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	800-1000 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	400-600 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	800-1000 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	400-600 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	800-1000 $\mu\text{mol. m}^{-2}\text{s}^{-1}$
	Distance canopy to the light	3.3'	1.7'	3.3'	1.6'	1.6'	12"	1.6'	12"	1.6'	6"	1.6'	6"
	Dimming (Power Consumption)	50% (512 W)	75% (769 W)	75% (769 W)	100% (1025 W)	75% (450 W)	100% (600 W)	75% (349 W)	100% (465 W)	100% (205 W)	100% (205 W)	100% (310 W)	100% (310 W)
	Supplemental CO <sub>2</sub> (ppm)	No	Yes ( $\pm$ 1100 ppm)	No	Yes ( $\pm$ 1100 ppm)	No	Yes ( $\pm$ 1000 ppm)	No	Yes ( $\pm$ 1000 ppm)	No	Yes ( $\pm$ 1100 ppm)	No	Yes ( $\pm$ 1400 ppm)
Flowering Light Quality Full Spectrum Light Duration 12 ON / 12 OFF	Intensity (PPFD)	800-1000 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	1000-1400 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	800-1000 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	1000-1400 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	800-1000 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	1000-1400 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	800-1000 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	1000-1400 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	800-1000 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	1000-1400 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	800-1000 $\mu\text{mol. m}^{-2}\text{s}^{-1}$	1000-1400 $\mu\text{mol. m}^{-2}\text{s}^{-1}$
	Distance canopy to the light	3.3'	1'	2'	12"	16"	<12"	6"	6"	12"	4"	16"	<12"
	Dimming (Power Consumption)	100% (1025 W)	100% (1025 W)	100% (1025 W)	100% (1025 W)	100% (600 W)	100% (600 W)	75% (349 W)	100% (465 W)	100% (205 W)	100% (205 W)	100% (310 W)	100% (310 W)
	Supplemental CO <sub>2</sub> (ppm)	No	Yes ( $\pm$ 1900 ppm)	No	Yes ( $\pm$ 1300 ppm)	No	Yes ( $\pm$ 1200 ppm)	No	Yes ( $\pm$ 1200 ppm)	No	Yes ( $\pm$ 1200 ppm)	No	Yes ( $\pm$ 1400 ppm)

(\*) For higher coverage areas and higher heights, supplemental CO<sub>2</sub> may not be necessary.

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