

PRO GROW LED - MODEL Z



780 W 1950 $\mu\text{mol/s}$



Growth



Early Bloom



Late Bloom

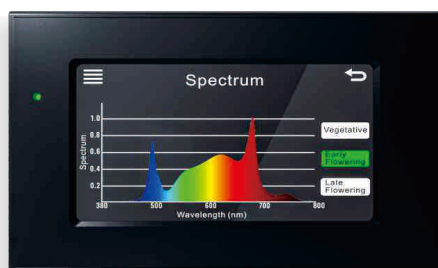


3 CHANNEL ADJUSTABLE SPECTRUM

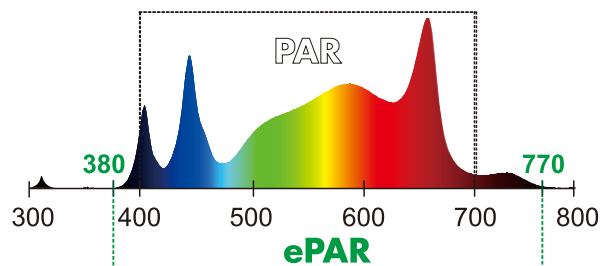
Take your crop to the next level with the PRO GROW 780 W Model Z. Three separate light channels for grow, early bloom and late bloom deliver the best possible spectrum at the three most influential stages of a plants life. The addition of Optimum Blue, UVA, UVB and Far-red diodes result in boosted plant growth, more flower sites, increased flower density, higher crop yield & improved essential oils, taste and aroma.

- BPF (ePar) - 1950 $\mu\text{mol/s}$
- PPF - 1870 $\mu\text{mol/s}$
- Efficacy - 2.6 $\mu\text{mol/J}$
- Sosen 0-10 V Driver
- 2510 SMD LED Diodes
- CRI 92.6 - Full Spectrum Array
- Dimmable to 40%, 60% or 80%

USE WITH SMART TOUCHSCREEN CONTROLLER



EXTENDED PAR SPECTRUM GRAPH (ePAR)



SAMSUNG
LM301H

OPTIMUM
DIODES

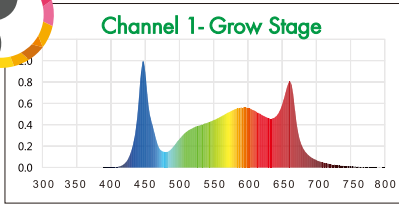
Ultimate
Spectrum
Control



3 CHANNEL SPECTRUM TUNING

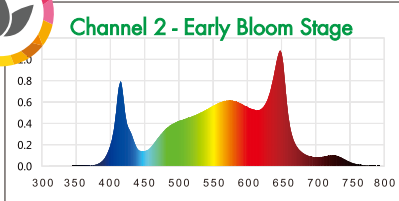


+730 nm
FAR-RED DIODES



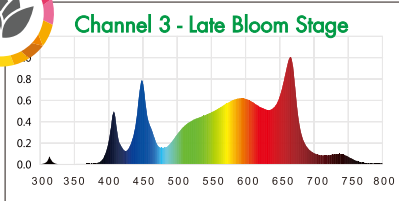
Increased Blue

Deep blue (5K) targets peak chlorophyll & photosynthesis production for boosted vegetative growth & plant vigour.



Increased Red & Far-red

Higher Red and Far-red output (4K) for increased production in flowering plants. The right amount of Far-red light engages Emerson Effect, encourages early node staging and more flower sites.



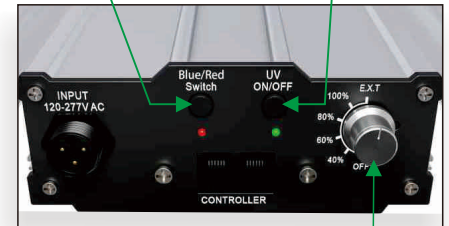
Increased Red, Far-red + UVA/UVB

UV & Red & Far-red offers maximum BPF (ePar). This encourages lateral branching, less stretching, enhanced flower size and improves essential oils, taste and aroma.

Control Channels Via The Fixture:

Blue/red exchange button.
Swap from channel 1 to channel 2 & 3

UVA/UVB button.
Engage for channel 3



Manual dimming switch.
Switch to EXT when using the Z - Smart Controller

USE WITH SMART TOUCHSCREEN CONTROLLER

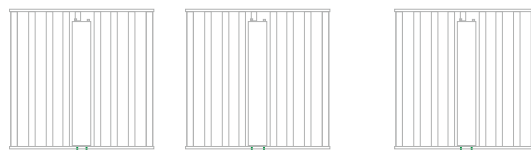


The PRO GROW LED 780 W Model Z is compatible with the PRO GROW Smart Touchscreen Controller. Equipped with an RJ14 Cable, up to 160 fixtures can be daisy chained from the one controller. Simply switch all fixtures to EXT mode to begin controlled operation.



SMART TOUCHSCREEN CONTROLLER COMPATIBLE

(sold separately)

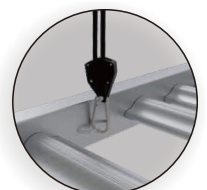


SINGLE CHANNEL.
UP TO 160 FIXTURES

FOLDABLE DESIGN

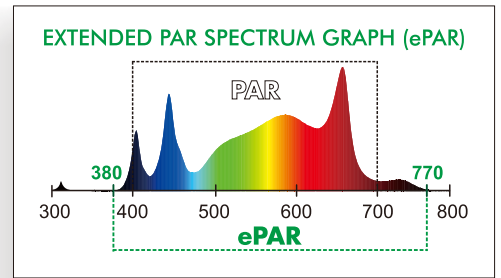


Simply unfold, plug and play with the PRO GROW 780 W Model Z. Four quality rope ratchets are included for immediate installation.



SPECTRUM AND ePAR - PUSH PAST PAR

ePAR redefines the PAR spectrum to recognise the benefits of light waves outside of the 400 to 700 nm range. PRO GROW 780 W Model Z includes 395 nm UVA and 730 nm Far-red diodes. The additional diodes extend the spectral gap from 380 nm to 770 nm. This was previously only provided by a combination of HPS and MH lights but is now available from a single LED fixture.



SPECTRUM TEST REPORT - 4 Channels

Plant Parameters:

Flux (lm): 106161.19

Efficiency: 134.55 lm/W

Radiant Power: 404.530 W

EEL: 0.10

Energy Efficiency Class: A++

PAR: 386.273 W

PPF: 1819.385 umol/s

R/B: 1.6

PFuv: 21.091 umol/s (360-400 nm)

PF1: 346.965 umol/s (400-500 nm)

PF2: 669.087 umol/s (500-600 nm)

PF3: 799.003 umol/s (600-700 nm)

Pffr: 82.112 umol/s (700-800 nm)

PPE: 2.306 umol/s/w

PF: 1918.978 umol/s

Colour Parameters:

Chromaticity Coordinates: $x=0.3821$ $y=0.3607$ $U/u'=0.2328$

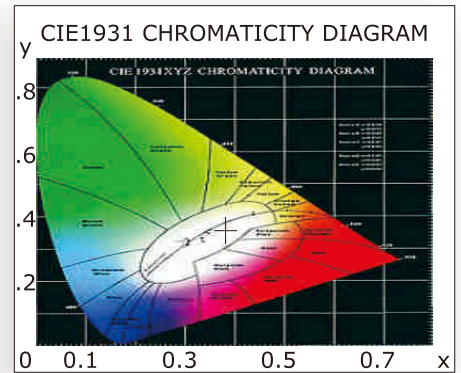
$v'=0.4945$ CCT = Tc 3825K (duv=-0.00819)

Dominant WL:Ld = 585.3 nm Purity = 0.229 Colour Ratio: R=0.201

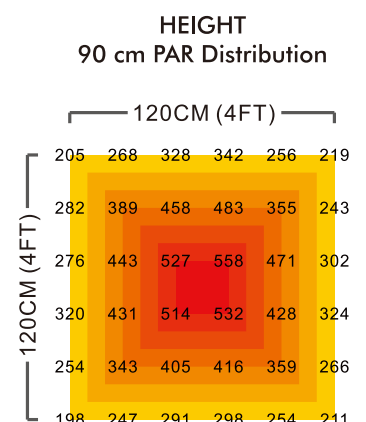
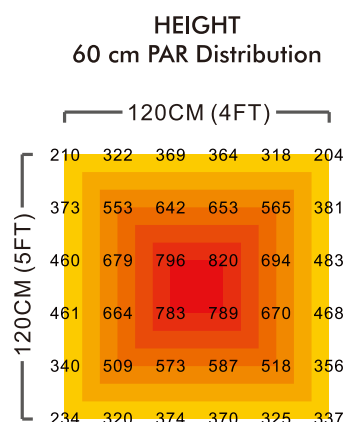
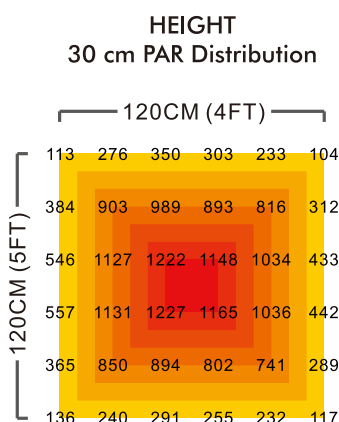
G=0.762 B=0.037 Peak WL: 661.9 nm CRI: RA=92.6

Voltage = 238.20 V I = 3.350 A Power = 789 W PF = 0.9890

CAUTION: UV light is barely visible. Always wear UV 400 eye protection when UVA/UVB (channel 3) is in operation.



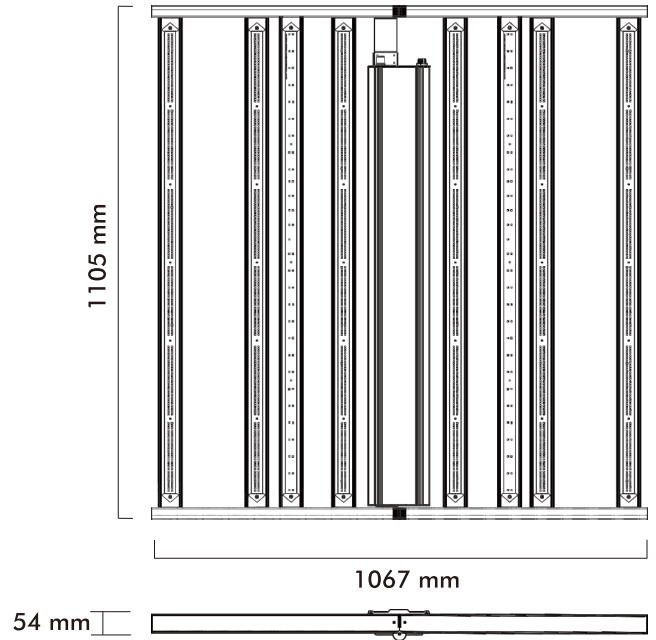
PAR DISTRIBUTION (with red, Far-red & UV)



SPECIFICATIONS

Model:	780 W Model E 8 Bar
Light Source:	2484 x Single Mount Diode/LED's
Input Voltage:	100V-240 V AC
Frequency Range:	50~60 Hz
Power/Watts:	780 W
Net Weight:	13.7 kg
Light Beam Angle:	120 Degree
Body Case Material:	Die Cast/Pressed Aluminum
IP Grade:	IP55 (water resistant)
Size:	L-1105 mm x W-1067 mm x H-54 mm
Lifespan:	>50,000 Hours
Min Operating Temp:	-40°C
Max Operating Temp:	40°C
Warranty:	3 Year Warranty

DIMENSIONS



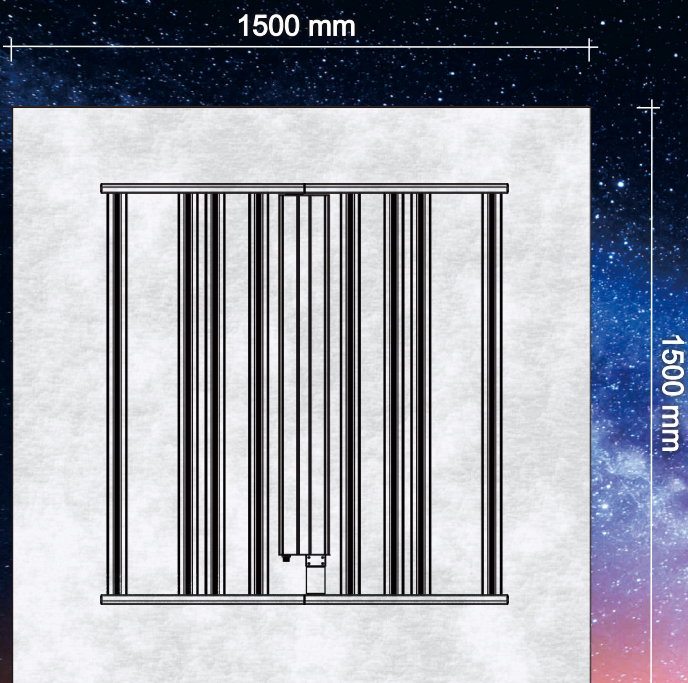
VOLTAGE

VOLTAGE	240 V
AMPERAGE	3.25 A

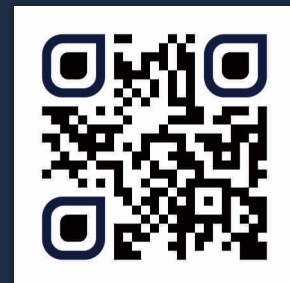
PRO GROW
LED - MODEL Z

780W - 8 BAR
1950 μmol/s

MAXIMUM RECOMMENDED LIGHT COVERAGE



SCAN FOR MORE INFO



www.progrownet.au