

Description: RX-G550 4 channel high-performance LED grow board for commercial horticulture cultivation. Not intended for beginner growers or grows without CO2 supplementation, Four independent spectral channels, compatible with "Horti Guru" plant lamp control system, can adjust the spectrum you need, with high efficiency. Among them, channel 1, more blue photons, suitable for vegetative growth at seedling stage, with light efficiency as high as 2.8umol/j; channel 1 and channel 2, blue photons plus red photons, are suitable for later vegetative growth, with an efficiency of 2.8umol/j, channel 3 Independent UVA channel, increase plant active ingredients, dwarf plants, improve plant morphology, channel 4, IR channel, regulate flowering period and improve harvest.



1. 550W Toplighting LED Grow Module full-cycle high bay growing lights, Replace HPS lamps, 4 channel adjustable spectrum
2. Samsung and Osram LED, PPF efficiency up to 2.8umol/J(CH1,CH2)
3. The 4 channel CH1: NW; CH2: WW + plant red 660nm, CH3 UVA 400nm CH4: FR 730nm,
4. RJ45 network cable dimming socket, compatible with "Horti Guru" intelligent APP control system
5. Waterproof IP65
6. Input: AC120-277V, PF>0.9, Power: CH1:240W, CH2:240W, CH3:35W, CH4:35W Total: 550W
7. 3 years warranty
8. Meet the safety requirements around the world

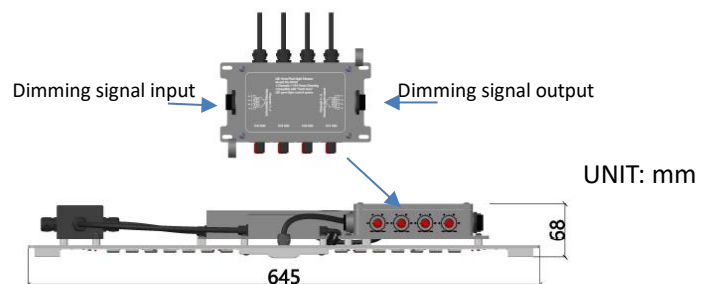
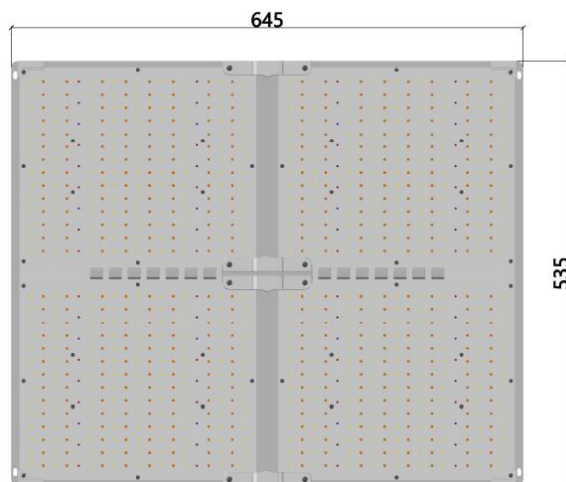
Model	Dimension LxWxH	Spectral Wavelength	Photon PPF $\mu\text{mol}/\text{m}^2/\text{s}$	Photon PPF	Power Test AC230V	Comment	
RX-G550 4H	645x535x68mm 25.4"x21"x 2.7"	CH1		471 μmol @ 24"(0.61m)	670 $\mu\text{mol}/\text{s}$	240W	Nursery and seedling growth
				312 μmol @ 36"(0.91m)			
		CH2		588 μmol @ 24"(0.61m)	680 $\mu\text{mol}/\text{s}$	240W	flowering
				321 μmol @ 36"(0.91m)			
		CH3		14 μmol @ 24"(0.61m)	20 $\mu\text{mol}/\text{s}$	35W	stimulate plant growth
				10 μmol @ 36"(0.91m)			
		CH4		5 μmol @ 24"(0.61m)	10 $\mu\text{mol}/\text{s}$	35W	especially useful during bloom
				3 μmol @ 36"(0.91m)			
		CH1-4 F70		1188 μmol @ 24"(0.61m)	1380 $\mu\text{mol}/\text{s}$	550W	bloom and harvest
				651 μmol @ 36"(0.91m)			

Operating temperature: -10°C ~ 35°C , Lifespan: 50,000 hours (Note: Ta 25°C)

Tolerance range for optical and electrical data: $\pm 10\%$.

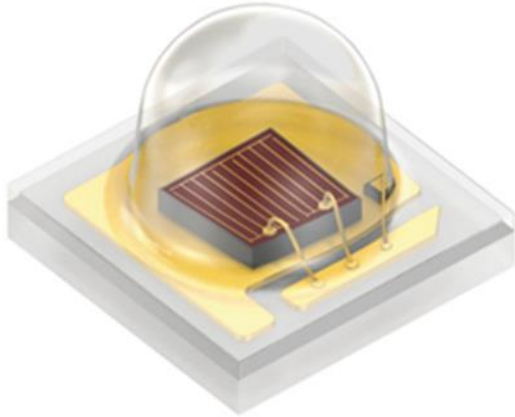
PPFD data 4'x4' Plant tents test ,The above data is for reference only!

Dimension:



UNIT: mm

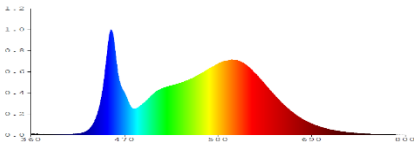
- Four-channel spectrum can be adjusted, ALL ON F70 full spectrum, replaces 1000W HPS lamp, Samsung LM301 Osram Horticulture LED



OSRAM LED



Samsung LM301

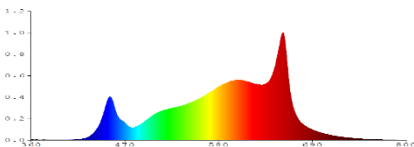


CH1 NW



Neutral white LED

Promote the germination and increase the growth rate of plants

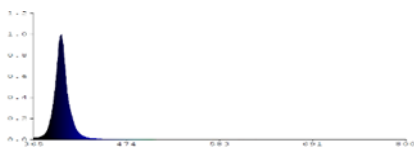


CH2 WR



Warm white LED

Promote plant flowering, make flowers bigger and better quality.



CH3 UVA



Deep Red Light 660nm

Yields more leaves and crops when combined with blue light

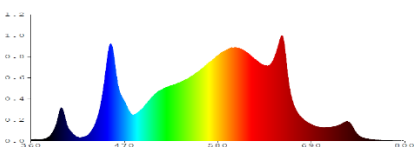


CH4 FR (IR) 730



IR 730nm should actually be called far red light (760nm LEDs on the market, It's actually 730nm LED)

The evidence is shown in the spectrogram
Speed up the Phytochrome conversion, allowing plants to produce a greater yield. IR is dimmer than other red lights, IR light is especially useful during bloom



CH1-4 F70



UVA 400nm, stimulate plant growth, increase active substances in medicinal plants

improve antioxidant proper-ties of microgreens

- Wiring diagram



AC INPUT



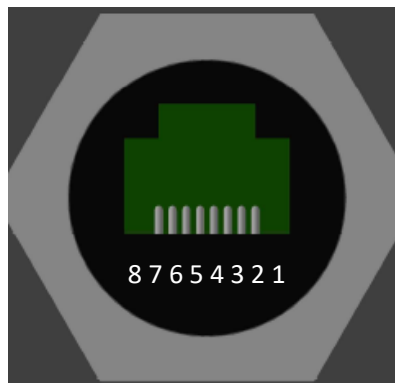
RJ45 DM IN

RJ45 DM OUT

Dimming knob

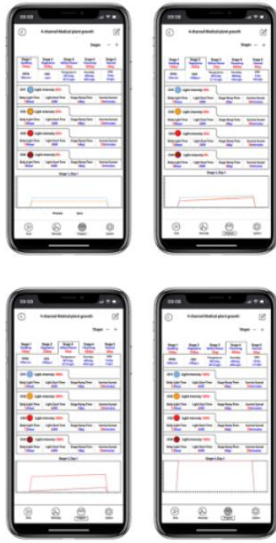
Note: as a sub lamp, please adjust the dimming knob to the maximum

RJ45 socket Dimming connector



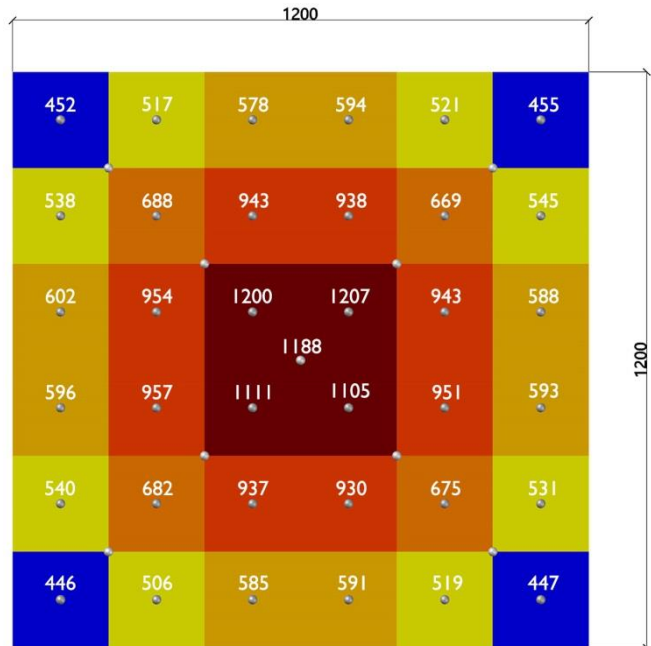
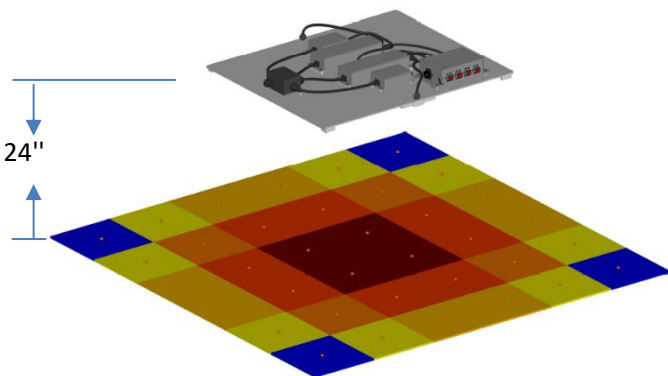
CH1 Dimming signal input : Pin 1 DIM+, Pin 2 DIM-
 CH2 Dimming signal input : Pin 3 DIM+, Pin 4 DIM-
 CH3 Dimming signal input : Pin 5 DIM+, Pin 6 DIM-
 CH4 Dimming signal input : Pin 7 DIM+, Pin 8 DIM-
 0-10V or 10V PWM signal

- Compatible with Horti Guru APP control system



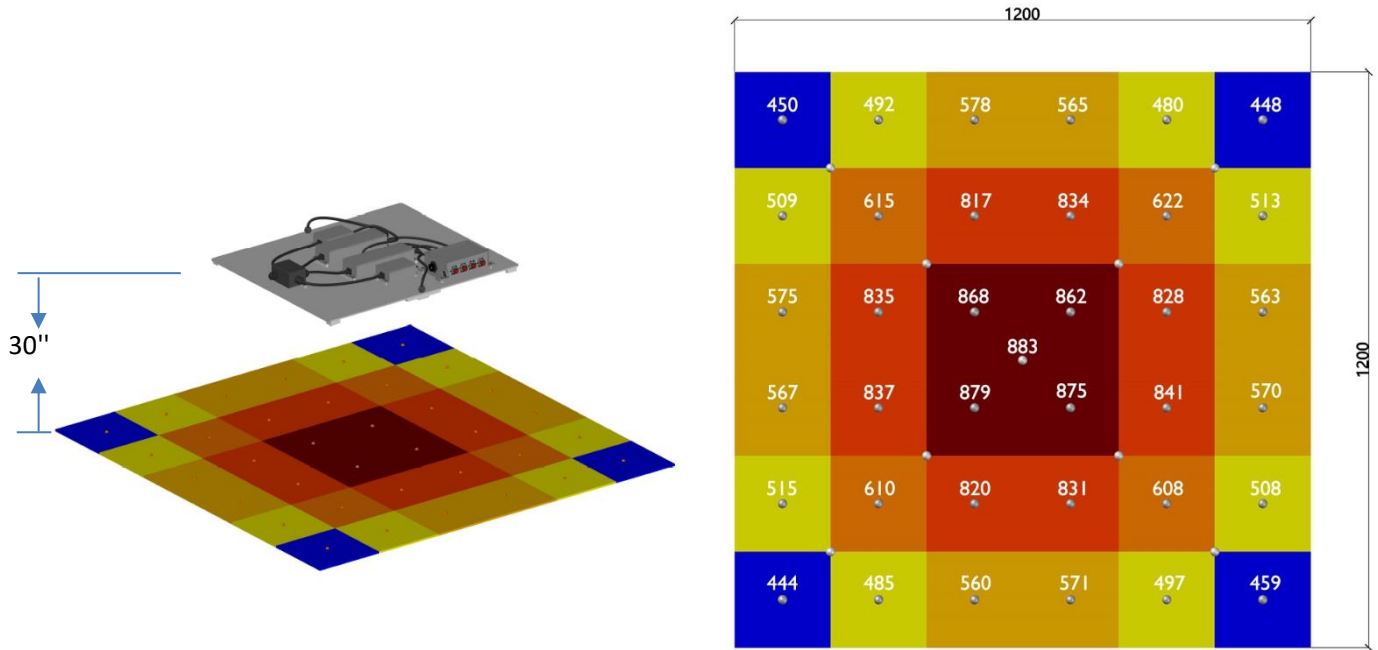
Horti Guru APP control system requires additional purchase
For more information, please contact Koray

PPFD test of plant tent 4'x4' (1.2x1.2m) height 24" :



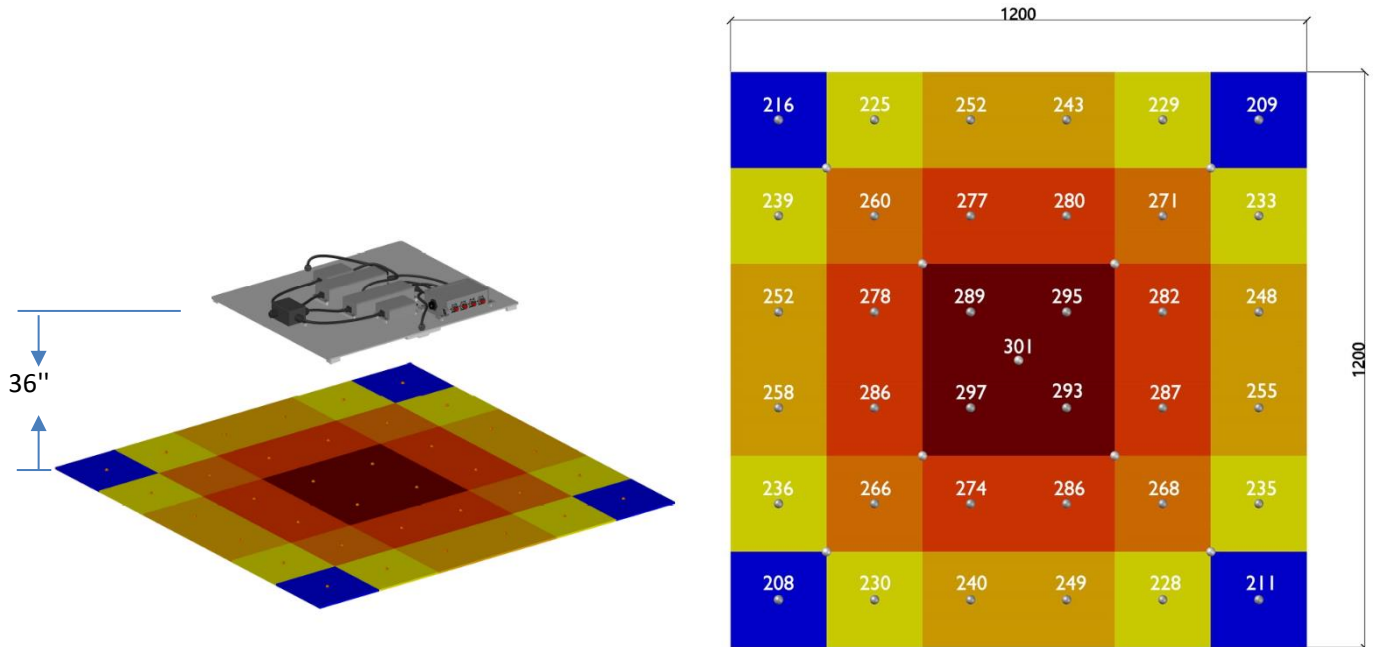
CH1-4 100% brightness, height 24" (0.61m)
Max PPFD 1188 $\mu\text{mol}/\text{m}^2/\text{s}$, Min PPFD 446 $\mu\text{mol}/\text{m}^2/\text{s}$
Average PPFD 700 $\mu\text{mol}/\text{m}^2/\text{s}$

PPFD test of plant tent 4'x4' (1.2x1.2m) height 30" :



CH1,CH2 100% brightness, height 30" (0.76m)
 Max PPFD 883 $\mu\text{mol}/\text{m}^2/\text{s}$, Min PPFD 444 $\mu\text{mol}/\text{m}^2/\text{s}$
 Average PPFD 615 $\mu\text{mol}/\text{m}^2/\text{s}$

PPFD test of plant tent 4'x4' (1.2x1.2m) height 36" :



CH1-100% brightness, height 36" (0.91m)
 Max PPFD 301 $\mu\text{mol}/\text{m}^2/\text{s}$, Min PPFD 208 $\mu\text{mol}/\text{m}^2/\text{s}$
 Average PPFD 255 $\mu\text{mol}/\text{m}^2/\text{s}$

● Electronic installation instructions

1. When open the package, please check whether the inside is including product, accessory, label, certificate quality. And please assure that the light is perfect without any damage.
2. The wires of LED Light is three-core, the standard size of the wire is 3*1mm² or 3*1.5mm² and the outer diameter is $\Phi 7\sim 12$ mm, brown wire is live line, blue wire is null line, yellow & green is ground line.
3. LED Light will work when the voltage up to rated voltage, so please be sure the voltage within the requested range, or it will damage the light which can't be repaired.
4. when the electrical continuity is connected, the lead wire should be in electric insulating The way of connect wire:

Attention

1. In order to make sure the light can work safety and stability, the ground line should be connected the earth.
2. When connecting the wires please turn off the power, and check whether the wires are connected correctly. Never connect the wires in opposite way, or the power should not be turned on.
3. Please keeping the trip bolt being fastening and reliable, in case of the light fall down of looseness.
4. When finishing connect the wires, please use the insulation gummed tape to convolve the wires, confirm the insulation and solve the waterproof problem.