

Description:

RX-G3740-4H 450W high-power plant light module, four channels of four different spectra, can control dimming separately, combine more spectrum, meet the illumination needs of different plants and different growth periods, and can be better applied by adjusting different spectra. Plant germination, group cultivation, growth, flowering, fruiting, harvesting and other lighting requirements at different stages; suitable for planting all kinds of plants, aquarium, especially suitable for experimental planting, plant nursery, plant factory, plant incubator special light source .



1. Four-channel spectrum is adjustable, 0.5m PPFD up to 1300 $\mu\text{mol}/\text{m}^2/\text{s}$
2. German brand gardening LED (except UV LED)
3. Applicable to high-powered male plants, high-light medicinal plants, research institutes, laboratories, plant factories, family science planting
4. Lens reflector, high efficiency concentrating, PPFD increased by 30%, waterproof IP65
5. Preferred spectra and combinations: 450nm+white/CH1, 660nm/CH2, 730nm/CH3, 395nm/CH4, UV, BW, DR, FR multiple spectra can be adjusted as needed
6. Power: rated total power 450W
7. CE RoHS FCC

Model	Dimension	Spectrum and Channel	Photon PPFD $\mu\text{mol}/\text{m}^2/\text{s}$	Luminous flux PAR Output	Power Input	Comment
RX-G3740-4H	405x370x123mm	<p>CHI 白蓝 450nm+white</p>	524 μmol @0.5m 21097Lx	Flux 16818Lm PPF: 340 $\mu\text{mol}/\text{s}$	160W 230V	HLG-185H-42AB (XLG-200-H-AB) Module CH1 Max 200W 6A
		<p>CH2 深红 660nm</p>	855 μmol @0.5m 11439Lx	Flux 5708Lm PPF: 451 $\mu\text{mol}/\text{s}$	160W 230V	HLG-185H-42AB (XLG-200-H-AB) Module CH2 Max 200W 6A
		<p>CH3 远红 730nm</p>	22 μmol @0.5m 119Lx	Flux 40Lm PPF: 11 $\mu\text{mol}/\text{s}$	50W 230V	HLG-100H-24AB (XLG-100-24-B) Module CH3 Max 68W 3.6A
		<p>CH4 紫外 395nm</p>	19 μmol @0.5m 159Lx	Flux 87Lm PPF: 15 $\mu\text{mol}/\text{s}$	80W 230V	HLG-100H-42AB (XLG-100-H-AB) Module CH4 Max 100W 2.5A
		<p>CHI ~ CH4</p>	1352 μmol @0.5m 30960Lx	Flux 21926Lm PPF: 798 $\mu\text{mol}/\text{s}$	WB+DR+F R+UV 450W	Full spectrum, increased by 395nm, 730nm suitable for plant flowering and maturity

Surface temperature rise T_c 30 °K Operating temperature: -30 °C ~ 40 °C, Service life: 50,000 hrs (Note: $T_a < 25$ °C)

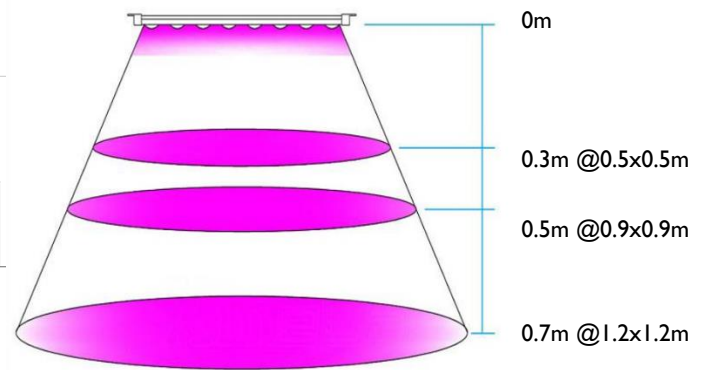
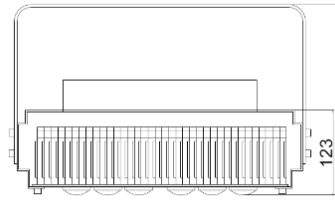
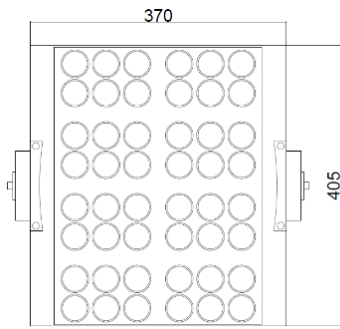
Photoelectric error range: $\pm 10\%$.

The illumination angle is 90°, the recommended illumination distance; 0.3~1m is used for medicinal planting, 1~3m for greenhouse shed

The above data is for reference only! Subject to change without notice!

Dimension:

Depth distance & Coverage:

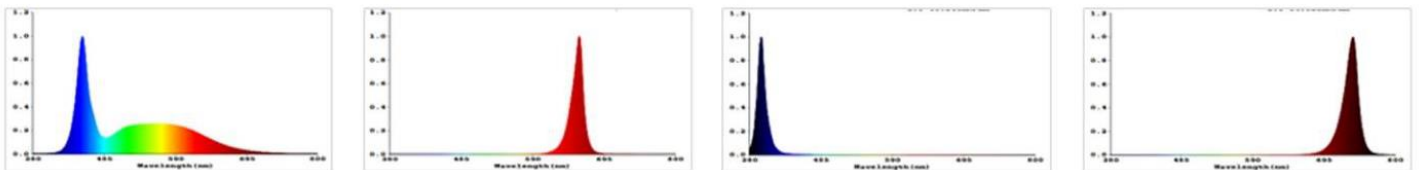


UNIT: mm

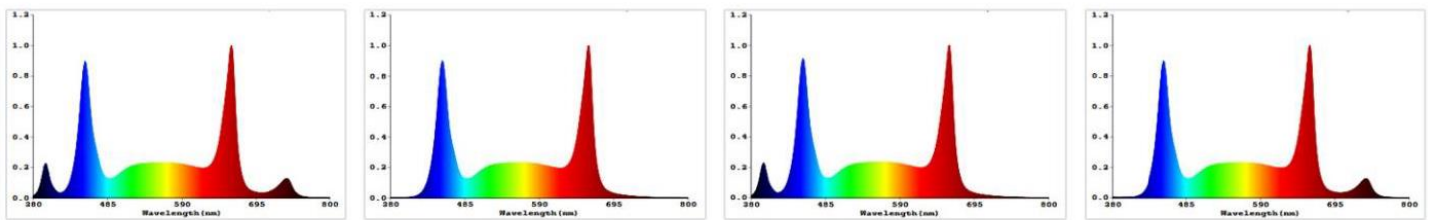
RX-G3740-90D

Max PPFD intensity 50%

- Four independent dimming power supply, dimming mode compatible with resistance dimming, 0-10V dimming, PWM dimming, free dimmer; optional APP dimming control

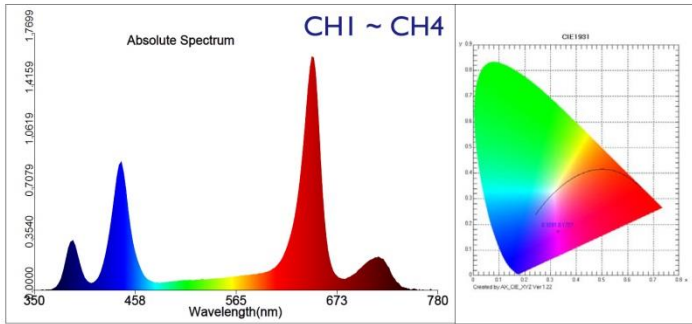


4 Basic Light Spectral



Can adjust light recipes as needed

● Testing report



Test parameter:

E= 7811.8 lx	E(fc)=726.001 fc		
CIE x= 0.3571	CIE y= 0.1576	CIE u'=0.3419	CIE v'=0.3396
Tc=1626 K	Lp=659.0 nm	HW=22.6 nm	Ld=610.2 nm
Pur=53.2 %	Ratio_R=58.4 %	Ratio_G=34.3 %	Ratio_B=7.3 %
Duv=0.13413			
Ra=-13.0	R1=-29	R2=-26	R3= 32
R4= 27	R5=-65	R6=-81	R7= 72
R8=-34	R9=-200	R10=-154	R11=-14
R12=-335	R13=-54	R14= 71	R15=-68

SDCM=99.4(3500K/White)
White Class:OUT

458μmol/ m²/s

E1=91.375 W/m ²	E2=98.489 W/m ²	PPFD=457.62 μmol/(m ² ·s)
Ech-A=39.07 W/m ²	Ech-B=24.286 W/m ²	Ef=6.9392 W/m ²
Eb=21.998 W/m ²	Ey=4.7327 W/m ²	Er=64.653 W/m ²
Ep=82.003 Wphyto/m ²	Erb_Ratio=2.9391	
PPFDf=4.2492E+001 μmol/(m ² ·s)		

RX-G3740-4H 450W 1m PPFD Output test

Measurements

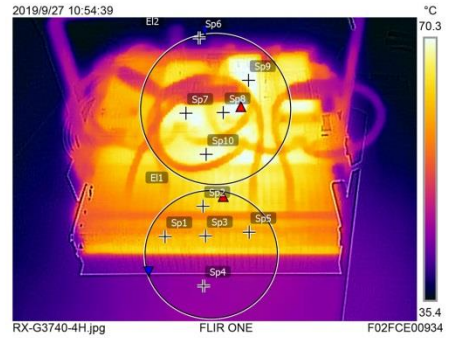
EI1	Max	66.3 °C
	Min	40.5 °C
	Average	51.9 °C
EI2	Max	73.3 °C
	Min	36.6 °C
	Average	61.2 °C
Sp1		61.1 °C
Sp2		62.5 °C
Sp3		61.4 °C
Sp4		41.7 °C
Sp5		59.6 °C
Sp6		36.9 °C
Sp7		69.3 °C
Sp8		68.9 °C
Sp9		70.9 °C
Sp10		69.3 °C

Parameters

Emissivity	0.9
Ref. temp.	22 °C

Geolocation

Compass	0° N
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RX-G3740-4H 450W Surface temperature test

