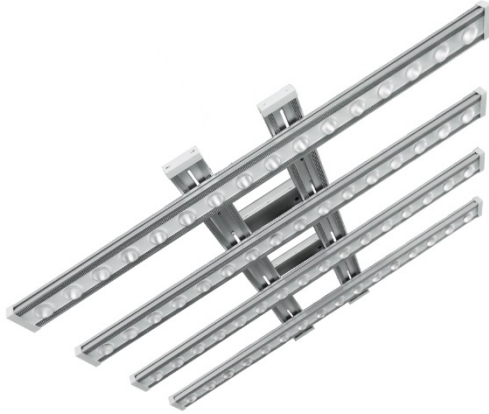


**Description:** RX-GW78-120Z Toplighting medicinal plant growth module array lamp, Koray LED Grow Lights, New patent design product with unique lens, Different LED chips in one lens, Concentrating Light efficiently and More uniform spectral radiation, directional light ,higher light utilization efficiency, more efficient comparing with common grow lights. Specially designed for medicinal planting, high PAR output, optimal plant-specific spectrum, from UV to Far red, to meet the light requirements of medicinal plants, fully stimulate medicinal ingredients. It is especially used for indoor planting of medicinal plants, planting planting tents, and scientifically experimenting planting.



1. Different LED chips in one lens, Spectral radiation uniform, Lens + Reflector cup, Concentrating radiation, Energy saving 50% @0.5m
2. D6 Spectrum - Dedicated to medicinal and medical plant growth
3. High PAR output, Height of plant canopy 0.5m PPFD>700μmol/m²/s, For Basement, grow tent planting medicinal plants
4. Large size 0.9x1.2m (3'x4'), multiple Bar arrays, uniform spectral radiation
5. German brand Horticultural LED and Meanwell power supply
6. Waterproof IP65, Can be used in humid environments
7. LED Bar distance 230mm can be adjusted according to the demand
8. Input: AC100~305V, PF >0.9 Power: 480W (A Type)
9. Long life up to 50,000 hours
10. ETL CE RoHS FCC SAA

Model	Dimension LxWxH	Spectral Wavelength	Photon PPFD μmol/m²/s	Luminous flux Radiation Power	Power Input	Comment
RX-GW78-120Z-A	1213x900x110mm	D6	705μmol @0.5m 21536Lx	Flux 31000Lm 962μmol/s	480W	Recommended Grow Medicinal plants
			640μmol @0.7m 20066Lx			
			486μmol @1m 14671Lx			
RX-GW78-120Z-DM	1213x900x110mm	D6	670μmol @0.5m 20000Lx	Flux 29000Lm 894μmol/s	440W	3 in 1 dimming function Recommended Grow Medicinal plants
			600μmol @0.7m 18800Lx			
			450μmol @1m 13800Lx			

Surface temperature rise Tc 32°K , Operating temperature: -30°C ~ 40°C , Lifespan: 50,000 hrs (Note: Ta ≤ 25°C)

Tolerance range for optical and electrical data: ±10 %. Light emitting angle: 60 °

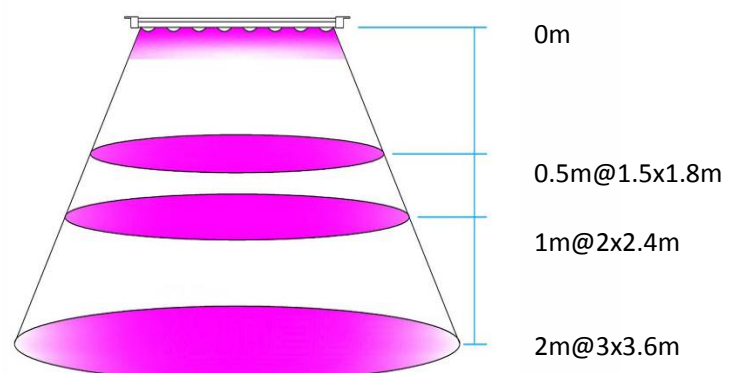
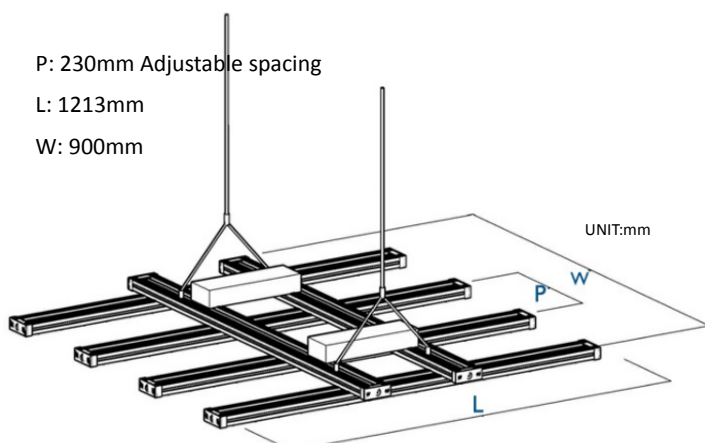
Recommended irradiation distance 0.5 ~ 3m; 0.5 ~ 1m for medicinal planting, 0.5 ~ 3m for vegetable cultivation, 1 ~ 3m for greenhouse fill light.

### Dimension:

P: 230mm Adjustable spacing

L: 1213mm

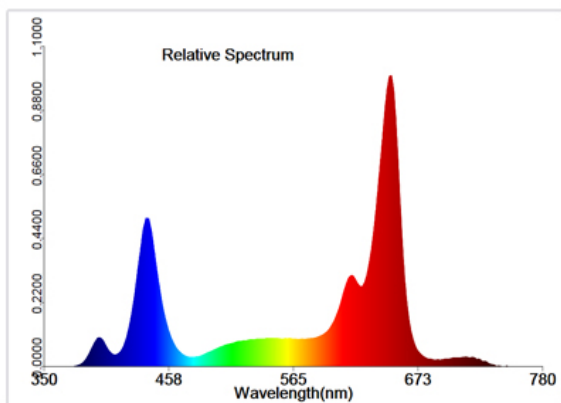
W: 900mm



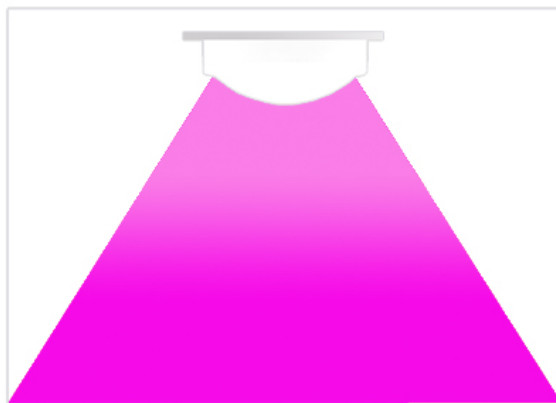
- Different LED chips in one lens, Spectral radiation uniform, Lens + Reflector cup, Concentrating radiation, D6 Spectrum - Dedicated to medicinal and medical plant growth



**Different LED in one lens More uniform Light**

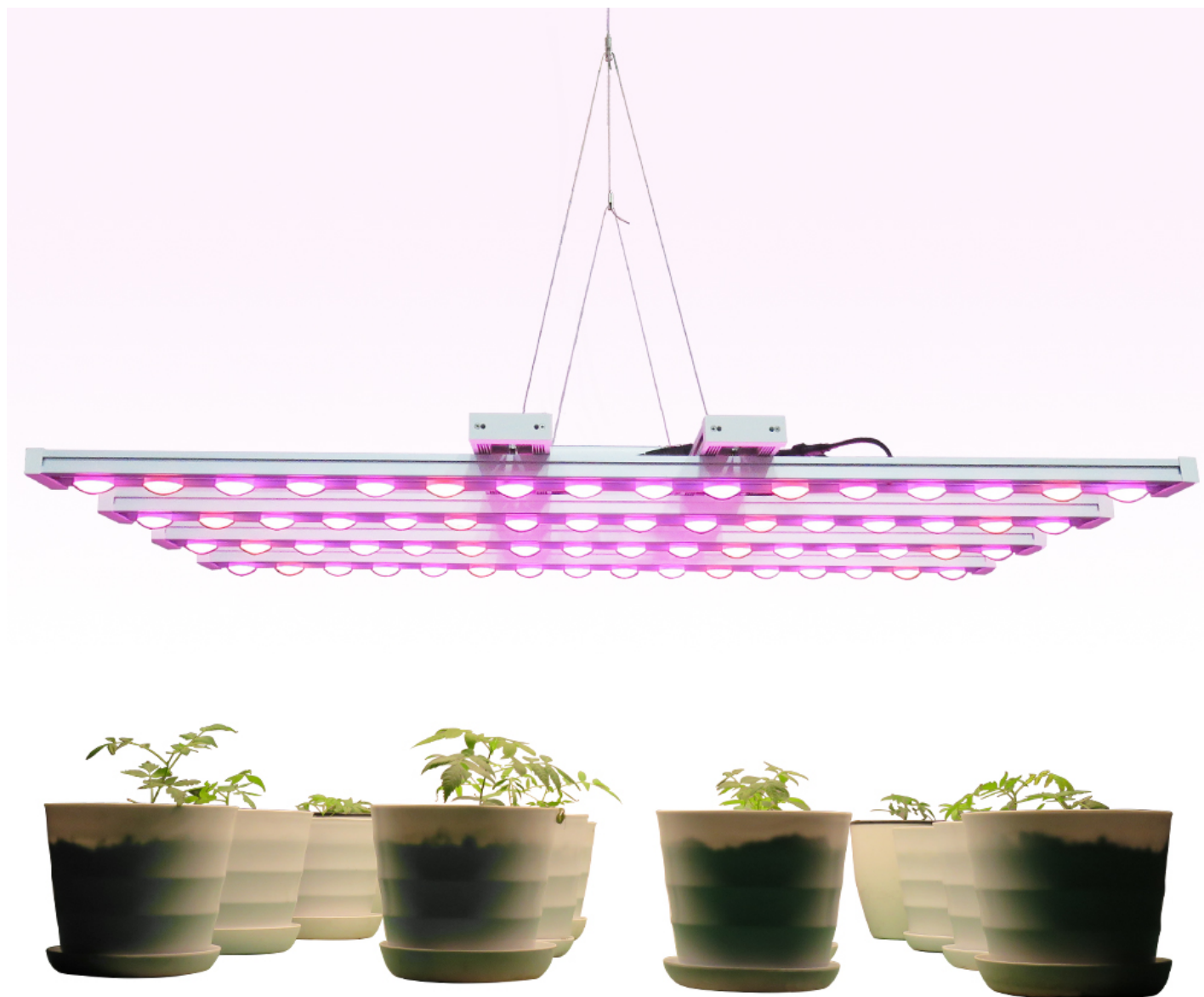


**Effective light recipe covers UV~FR  
Creating more medicinal ingredients**

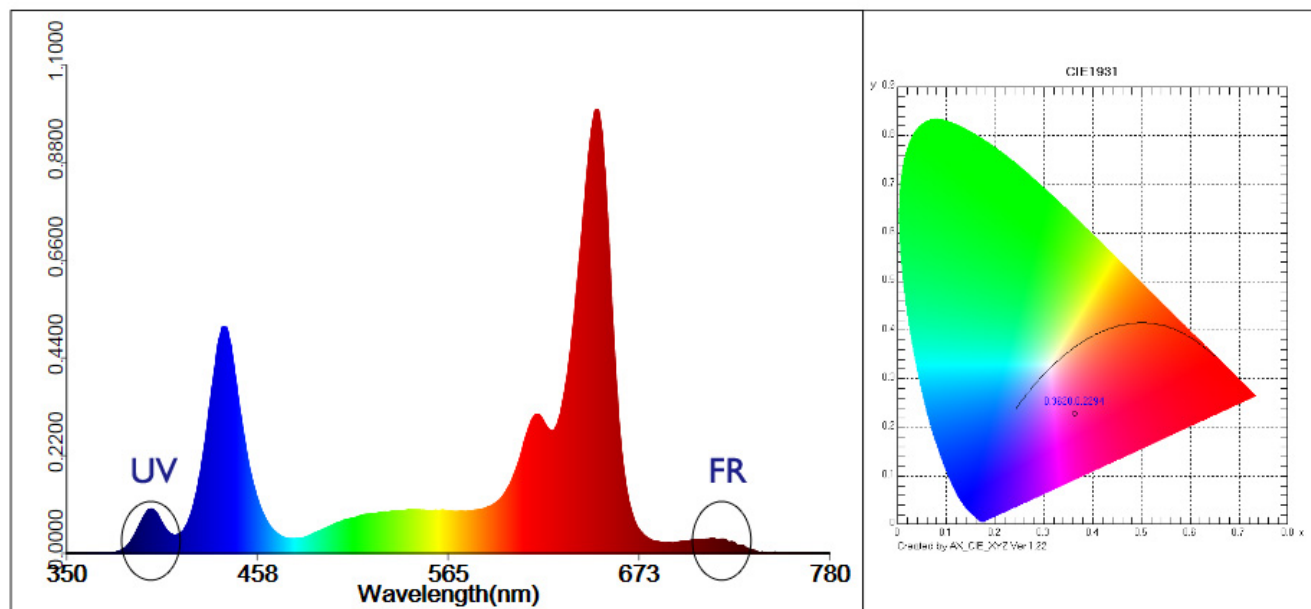


**Concentrating Light efficiently  
higher light utilization efficiency**

- Indoor planting of medicinal plants, planting tents, and scientifically experimenting planting



- High PAR Output, PPFD >700 $\mu$ mol @0.5m The spectrum contains UV and FR



## Test parameter:

E= 21536.3 lx

E(fc)=2001.51 fc

CIE x= 0.3620

CIE y= 0.2294

CIE u'=0.2880

CIE v'=0.4105

Tc=2588 K

Lp=663.0 nm

HW=23.8 nm

Ld=610.2 nm

Pur=32.4 %

Ratio\_R=37.6 %

Ratio\_G=57.5 %

Ratio\_B=4.8 %

Duv=-0.08186

Ra=46.6

R1= 33

R2= 50

R3= 92

R4= 48

R5= 27

R6= 38

R7= 82

R8= 3

R9=-114

R10= 3

R11= 35

R12=-29

R13= 29

R14= 94

R15= 1

SDCM=66.3(3500K/White)

White Class:OUT

E1=144.86 W/m<sup>2</sup>

E2=150.58 W/m<sup>2</sup>

PPFD=704.83  $\mu$ mol/(m<sup>2</sup>·s)

Ech-A=38.118 W/m<sup>2</sup>

Ech-B=25.008 W/m<sup>2</sup>

Ef=3.4558 W/m<sup>2</sup>

Eb=37.927 W/m<sup>2</sup>

Ey=21.932 W/m<sup>2</sup>

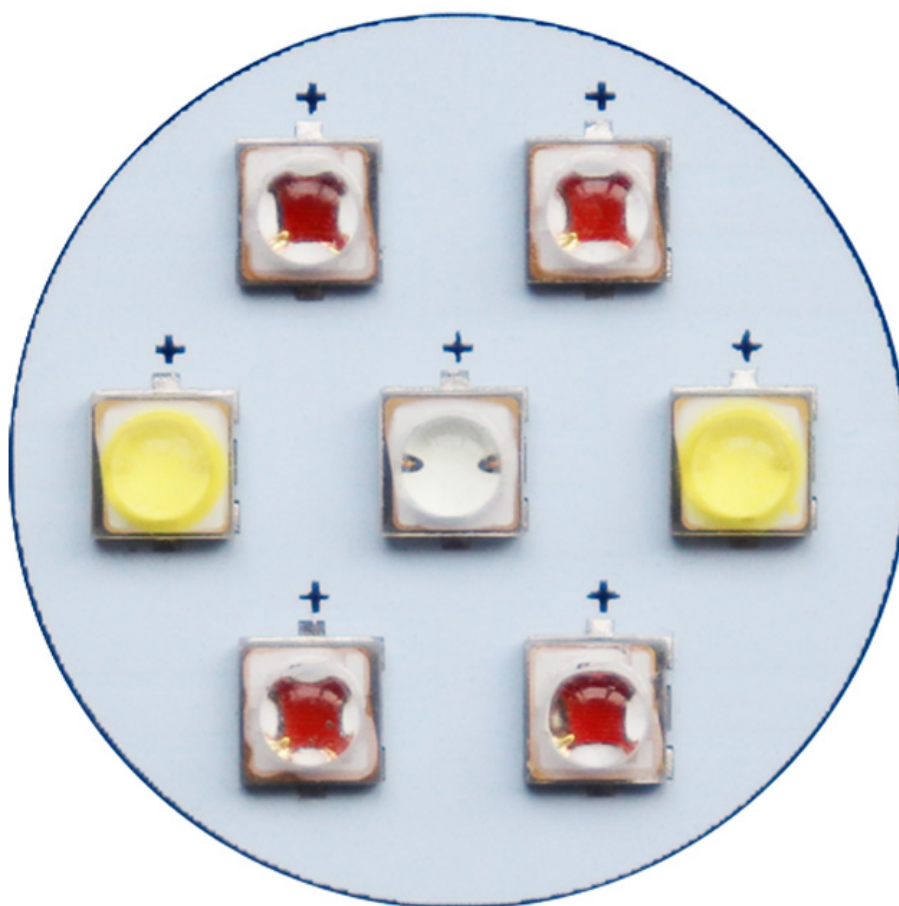
Er=85.036 W/m<sup>2</sup>

Ep=128.92 Wphyto/m<sup>2</sup>

Erb\_Ratio=2.2421

PPFDf=2.1112E+001  $\mu$ mol/(m<sup>2</sup>·s)

- German brand horticultural LED(Deep Blue,Far Red, Hyper Red), high efficiency and high reliability



German brand horticultural LED(Deep Blue,Far Red, Hyper Red)  
High efficiency and high reliability

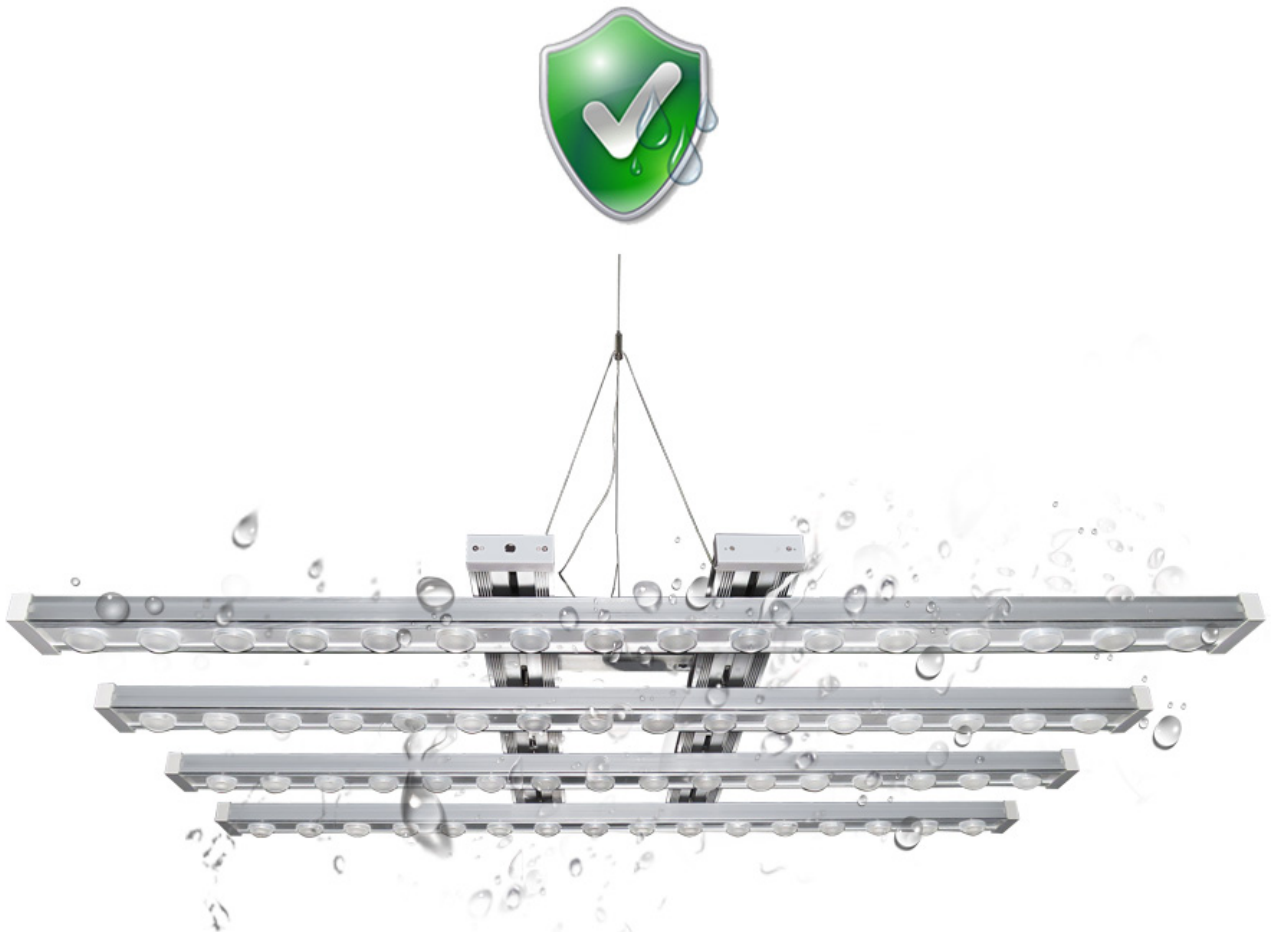


- Meanwell power supply, dimmable, waterproof, high reliability, 3 in 1 dimming function (0~10VDC, PWM signal, or resistance) Input 100 ~305VAC



Meanwell power supply, dimmable, waterproof, high reliability  
3 in 1 dimming function (0~10VDC, PWM signal, or resistance)

- Waterproof IP65



**Waterproof IP65**

- Free dimmers 0-10V dimmer, note that the dimmer is not waterproof

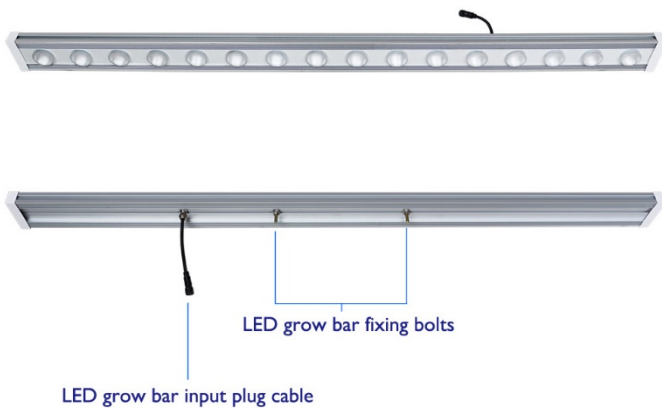


If you need to connect to other dimming devices, you can cut the connecting wires,  
the blue wire is DIM+, and the gray wire is DIM-



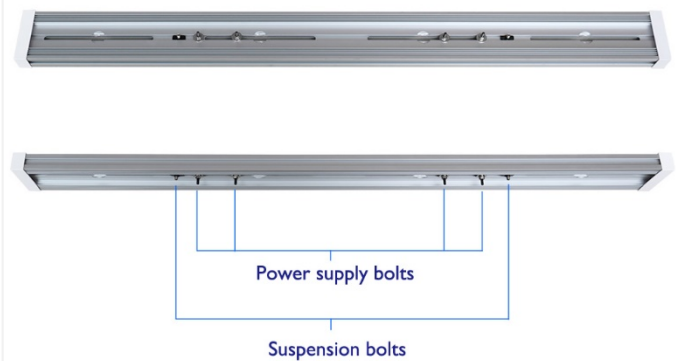
- Package includes the following items

Waterproof LED grow Bar 4pcs  
(Including LED grow bar fixing bolts)



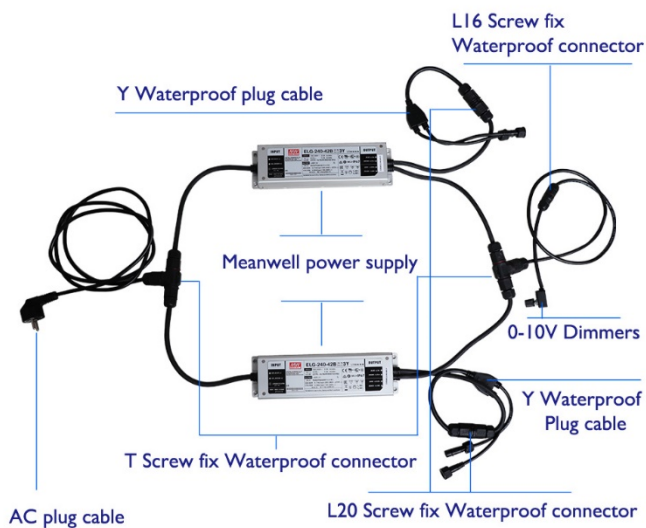
Waterproof LED grow Bar 4pcs  
(Including LED grow bar fixing bolts)

Aluminum mounting bracket 2pcs  
Includes power supply bolts and cable suspension bolts



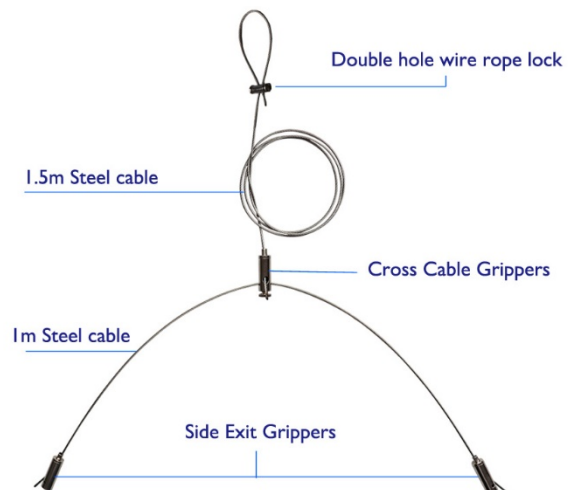
Aluminum mounting bracket 2pcs  
Includes power supply bolts and cable suspension bolts

Power supply Kit



- Meanwell power supply 2pcs
- Y type Waterproof plug cable 2pcs
- T Screw fix Waterproof connector 2pcs
- L20 Screw fix Waterproof connector 2pcs
- L16 Screw fix Waterproof connector 1pcs
- 0-10V Dimmers (DM Type) 1pcs
- AC plug cable 1pcs

Suspension Kit Steel



- Side Exit Grippers 4pcs
- Double hole wire rope lock 2pcs
- (Optional: Cable Looping Gripper) --
- Cross Cable Grippers 2pcs
- 1.5m Steel cable 2pcs
- 1m Steel cable 2pcs

## ● Installation tools and accessories

Mounting wrench tool



M6 L Socket Wrench - LED grow bar fixing bolts



L-type hex wrench - suspension bolts



M4 L Socket Wrench - power supply bolts

Self-Locking Nylon Plastic Wire Cable



L-type hex wrench - suspension bolts

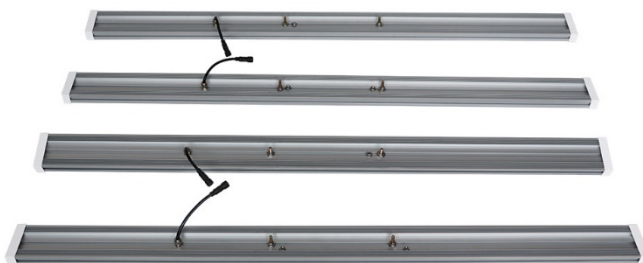
M6 L Socket Wrench - LED grow bar fixing bolts

M4 L Socket Wrench - power supply bolts

Plastic Wire Cable - Cable finishing and fixing

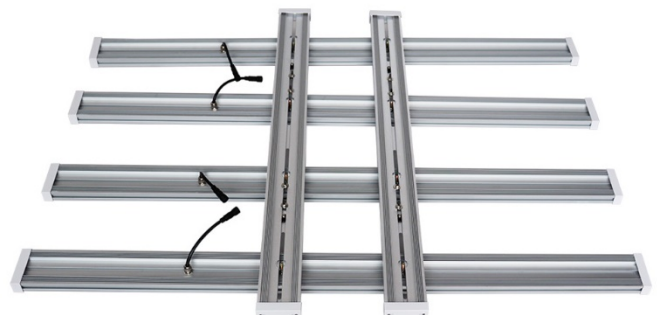
## Grow Lights Installation steps

1



Take out 4pcs waterproof LED grow bar, you can use a soft cloth pad to avoid damage

2



The aluminum mounting bracket is placed on the back of the LED grow bar

## Grow Lights Installation steps



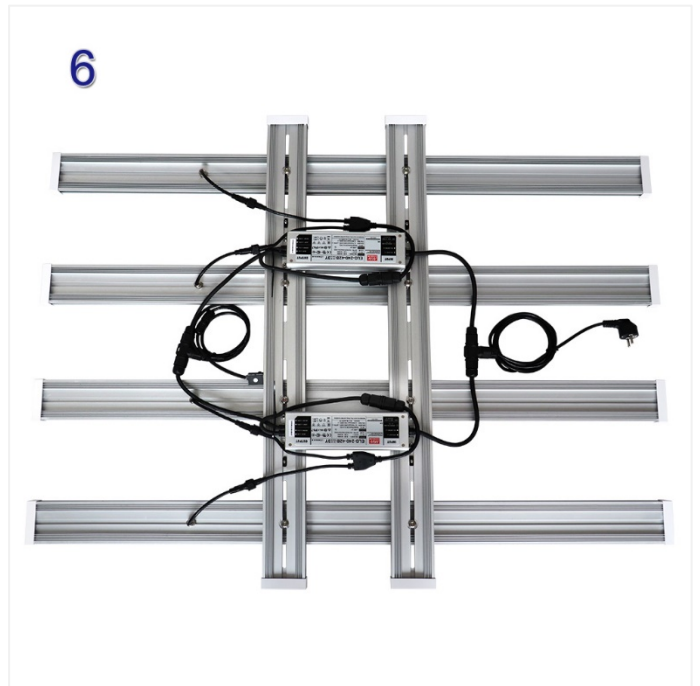
The power supply is placed on the fixing bolts, the spacing is adjusted, and the mounting bracket and power supply are slightly fixed



Make sure the installation is correct, lock the power bolts and screws, and lock the LED strip fixing bolts.



Connect the power output plug cable to the LED grow bar input plug cable



Installation is complete, plug in the power to light the plant grow light



## Suspension installation



1. The wire rope passes through the beam and is fixed by the Double hole wire rope lock (Cable Looping Gripper)



2. Rotate Fixed Side Exit Grippers to cable suspension bolts



3. Wire rope inserted into Side Exit Grippers



4. Hanging (Suspension) installation completed

## Plug cable selection



Note: Please select the appropriate power plug when ordering, please contact koray.

## Turn on the lights renderings



No Flicker