



## PLANT GROWTH CHAMBER BGI1BL4

# PLANT GROWTH CHAMBER BGI1BL4

## LED PLANT GROWTH CHAMBER



- Fluorine-free design
- Large LCD screen, multi data display at one screen, easily to observe and operate.
- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable.
- The unique air duct design can prevent the plant seedlings from being blown down due to excessively fast circulating wind speed during the test
- 30 programs can be set, max timing for each group is 99 hours 59 minutes. Temperature, humidity, light intensity and time etc parameters fast setting.
- It can simulate the temperature changes during the day and night in nature, and can also simulate the multi-directional light sources in nature.
- User's set parameters can be stored automatically when power off suddenly, and

## SPECIFICATIONS

Model	BGI1BL4
Chamber Volume	450L
Temperature Range	Without Lighting: 0~50°C , With lighting: 10~50°C
Display Resolution	0.1°C
Temperature Stability	±1°C
Temperature Uniformity	±1.5°C
Humidity Range	50~90%RH
Humidity Accuracy	±5~7%RH
Lighting Intensity	0~20000LX0~25000LX six-grade adjustable
Lighting Type	Three surface illumination
Programmer Function	Temperature, humidity, light intensity can be set separately, and 30 programmesTime range is 1~99 hours 59 mins for each programmer
Power Consumption	2050W
Electrical Requirement	220V 50Hz
Ambient Temperature	RT+5~30°C
Interior Dimension(WxDxH,mm)	700x550x1140
Exterior Dimension(WxDxH,mm)	950x850x1850
Shelves	3(PCS)
Alt Name	LED plant growth chamber



## FEATURES

- Fluorine-free design
- Large LCD screen, multi data display at one screen, easily to observe and operate.
- Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable.
- The unique air duct design can prevent the plant seedlings from being blown down due to excessively fast circulating wind speed during the test
- 30 programs can be set, max timing for each group is 99 hours 59 minutes. Temperature, humidity, light intensity and time etc parameters fast setting.
- It can simulate the temperature changes during the day and night in nature, and can also simulate the multi-directional light sources in nature.
- User's set parameters can be stored automatically when power off suddenly, and it resume last program settings when power on
- 2 imported compressors and fan motor, 2 cooling systems ensure that plant cultivation can run for a long time safely.

### Advantages

- No heat interference: LED beams do not generate heat and extract useful light that is beneficial to plant growth.
- Energy saving and environmental protection: LED light sources have extremely low energy consumption, about 80% lower than ordinary light sources
- Small size: LED light sources have the characteristics of miniaturization, flatness, and strong designability
- Stable and long life: Provides precise and stable lighting, with a service life of more than 30,000 hours and high photoelectric conversion efficiency.
- Fast response speed: Optional overhead flat lighting can ensure that the culture can fully and evenly absorb the light source to maintain the consistency of experimental results.

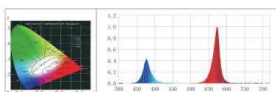
### Safety

- Independent temperature-limited alarm system ensures experiments run safely
- Over temperature and temperature difference alarms

### Option:

- RS485 connector
- CO2 inlet
- CO2 controller (imported IR CO2 sensor, CO2 control range: 0-5000ppm or: 0-20%)
- Embedded printer
- Illumination control system
- USB connect

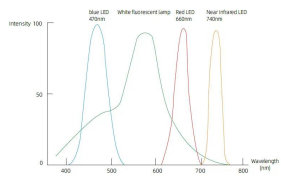
### Spectral detection data



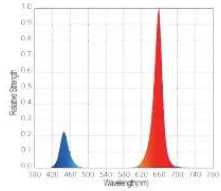
### High-quality LED grow light beads



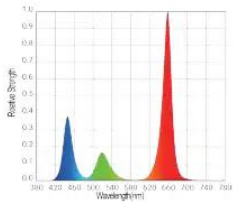
## LED vs. White Fluorescence Spectrum



## Red and Blue Light Spectrum



## LED RGB Color Light Spectrum



**Biolab Scientific Ltd.**

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: [info@biolabscientific.com](mailto:info@biolabscientific.com) | Website: [www.biolabscientific.com](http://www.biolabscientific.com)