



## PLANT GROWTH CHAMBER BGI-3705

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## 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	BGI-3705
Chamber Volume	800L
Temperature Range	Without Lighting: 0~50°C , With lighting: 10~50°C
Display Resolution	0.1°C
Temperature Stability	±1°C
Temperature Uniformity	±2°C
Humidity Range	/
Humidity Accuracy	/
Lighting Intensity	0~30000LX0~35000LXSix-grade adjustable
Lighting Type	Shelves Illumination (two Shelves)
Programmer Function	Temperature, humidity, light intensity can be set separately, and 30 programmersTime range is 1~99 hours 59 mins for each programmer
Power Consumption	2700W
Electrical Requirement	220V 50Hz
Ambient Temperature	RT+5~30°C
Interior Dimension(WxDxH,mm)	800x590x1650
Exterior Dimension(WxDxH,mm)	1410x890x1950
Shelves	3(PCS)
Packing Dimension	156*106*224
CBM	3.70
Net Weight	330.00
Gross weight	480
Alt Name	LED plant growth chamber



## FEATURES

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- 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.

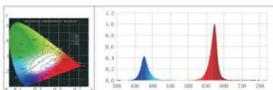
### Safety

- 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

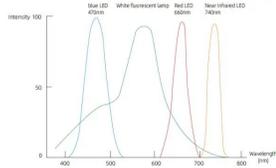
### Spectral detection data



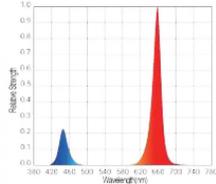
High-quality LED grow light beads



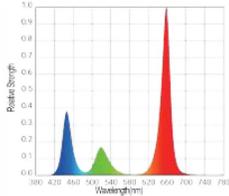
**LED vs. White Fluorescence Spectrum**



**Red and Blue Light Spectrum**



**LED RGB Color Light Spectrum**



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