

HORTICULTURE LIGHTING

HARVESTATION



APP CONTROL
App based management for the Horticulture Smart Lighting System



Product Features

- ▶ Detect sunlight PAR value, and record sunlight DLI data statistically.
- ▶ According to your DLI target, the system will automatically adjust the LED lights for accurate illumination.
- ▶ Full cycle settings cover the whole growth cycle, including multiple photoperiods and operation days.
- ▶ One set of Harvestation system can wirelessly control up to 40 lighting zones. One lighting zone can control up to 300 fixtures.
- ▶ The industrial-grade encrypted Zigbee wireless communication protocol is adopted in the system, the recorded data can be stored in the cloud which is safe and reliable.

HARVESTATION



Host Controller

Host controller is the core control unit of the system. It will collect the data sent from the PAR and Temp/Humi detector at all times, then control the dimming and archive the data statistics according to the requirements set by the program. Host controller can connect to the internet through a network cable or WIFI signal, and save the lighting strategy and statistical data configured by user to the cloud.

SPECIFICATIONS

Voltage	100-277VAC
Amperage	0.05A
Operating Frequency	50-60Hz
Input Power	2W
IP Level	IP66
Network Interface	RJ45
Wifi Band	2.4Ghz
Zigbee Band	2.4Ghz
System Capacity	50 Slaves

SPECIFICATIONS

Voltage	100-277VAC
Amperage	0.03A
Operating Frequency	50-60Hz
Input Power	1W
IP Level	IP66
Dimming	0-10V
Zigbee Band	2.4Ghz
System Capacity	30pcs fixtures or 10pcs dimming amplifiers

Dimming Controller

Dimming controller is the executive dimming unit of the system. It can output 0-10V dimming signal to control the light output of the fixture which are connected to it. Dimming controller is controlled by the host controller, which communicates wirelessly with the host controller through Zigbee.



PAR Detector

The PAR Temp/Humi detector is the data collection unit of the system. It collects sunlight PAR data all the time to form DLI statistics. It also collects temperature and humidity data near the detector. Users can view of the current day, month and year historical data statistics through the software. It can display the statistics of the current day, the current month and the current year.

SPECIFICATIONS

Voltage	100-277VAC
Amperage	0.02A
Operating Frequency	50-60Hz
Input Power	0.5W
IP Level	IP66
Humidity Range	0-100%
Temperature Range	-30°C ~ 100°C
PAR Range	0-4000μmol/m ² /s

SPECIFICATIONS

Voltage	12Vdc
Amperage	0.03A
IP Level	IP66
Dimming	0-10V

Dimming Amplifier

Dimming amplifier is the dimming expansion unit of the system. One end is connected to the dimming controller, the other end is connected to the next dimming amplifier, and the output end is connected to the fixtures. The dimming amplifier can still output 0-10V dimming signal to control the fixtures.



COMPACT DIMMING CONTROLLER



Display screen

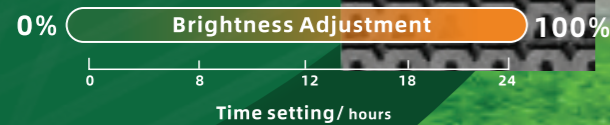
Mode selection button:
Auto Mode 1/Auto Mode 2
manual mode

Up and down selection /
addition and subtraction
Adjust buttons



Set buttons:
Time Calibration/
Auto Module Setting
Confirm button

Back button



Product Features

- ▶ Two-channel control, each channel can control up to 25 lights or drivers.
- ▶ Two photoperiods can be set under Automatic Mode.
- ▶ Freely set lights on/off in 1-15 minutes to imitate natural sunrise/sunset environment.
- ▶ Hand-held operation, more convenient to use.

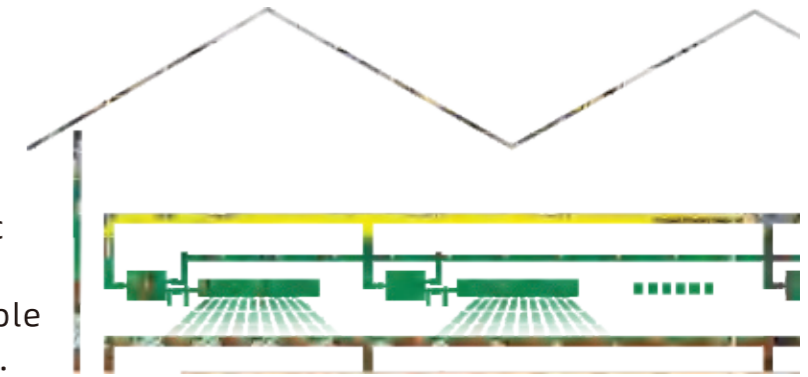
Protection Level: IP20
 Voltage: DC 12V
 Warranty: 2 Years
 Installation: Easy to install

PRODUCT DESCRIPTION

Compact Dimming Controller:

Two channels can be set, each channel can connect up to 25 lights or drivers;

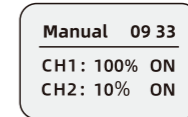
This compact dimming controller equipment includes a 100~240Vac power adapter, a dimming signal cable + pigtail dimming power cable (total length 2.5 meters/ 8.2 feet).



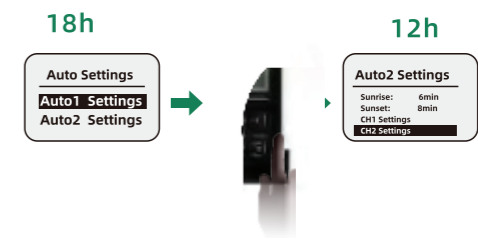
FUNCTION DESCRIPTION

1. Provides manual control and two preset automatic control programs

2. Manual light switch can be controlled, dimming from 100% to 10%



3. Timing setting can be preset for two different photoperiods. Quick switching between growth stages can be achieved.

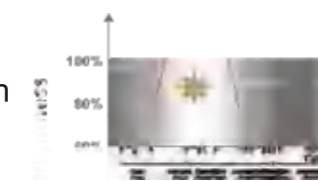


DESCRIPTION OF TIMER SETTING FUNCTION

1. Brightness can be set in 4 phases in each photoperiod

Start	End	CH1
08:00	10:00	50%
10:00	14:00	80%
14:00	18:00	100%
18:00	20:00	50%

2. Imitate sunrise or sunset in 1-15min



PRODUCT PARAMETER DETAILS

	Item No.	Adapter voltage	Controller voltage	Output voltage	Body
North America	418-0001	100-240VAC	12VDC	0-10v-Two Channel	PC
Europe	418-0002	220-240VAC	12VDC	0-10v-Two Channel	PC