



LED GROW LIGHT
CONTROL SYSTEM



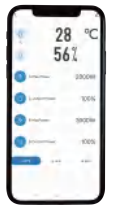
DC12V

DEVICE

SENSOR

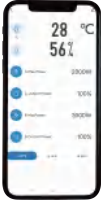
LINE 1

LINE 2





Appreciated for choosing us and let's start a great experience using the ES-CSP-A control system. This unit will help you to build up an ideal growing environment conditions and manage it as well. To ensure safety, please read the user manual carefully before installation and follow the instructions herein, it will provide detailed information and guidelines that will help to set up the unit and understand the full package. Any use or application of this product, other than its originally intended purposes, are prohibited. Store this manual in a secure place for future reference. If you have any questions, please contact us:



INDEX

INTRODUCTION	03
<hr/>	
BUTTONS	04
<hr/>	
BUTTONS	05
<hr/>	
CONNECTION	06
<hr/>	
MAIN MENU	07
<hr/>	
SETTING MENU	
LIGHTING CHANNEL SETTING	08
<hr/>	
LIGHTING CHANNEL SETTING	09
<hr/>	
HUMIDITY SETTING	
TEMPERATURE SETTING	10
<hr/>	
TIME SETTING	
BLUETOOTH CONNECTION	11
<hr/>	

INTRODUCTION

Our honor to present you the most intelligent and sophisticated environmental control system. It controls 512 lights max. and different sensors for humidity/ temperature/ light/ CO2/ Smoke monitoring. With incredible flexibility, anyone could easily customize their own grow system for maximum production.

ES-CSP-A is specially designed to set up a daily lighting management. 2 separate lines allow the user to manage multiple lighting and dimming performances based on individual requirements. Other functions, such as auto dimming, overheat shutdown and sunrise/sunset simulation allow the lighting system runs efficiently as scheduled.

Except 3-in-1 sensor detecting humidity/ temperature/ light, the system comes with CO2 sensor and smoke sensor for monitoring CO2 level and fire risk. With APP supported, you can monitor the conditions anytime and anywhere, or read historical data; warning message will be sent if any measured value exceeds your customized setting range. A micro-SD card is available for data logging in poor connection.

BUTTONS

The backlit 128*128 LCD display allows to check current conditions and access to all settings with 6 pushbuttons.

LEFT/RIGHT The button is used to change functional page or adjust parameters when setting; supporting long-push and short-push.



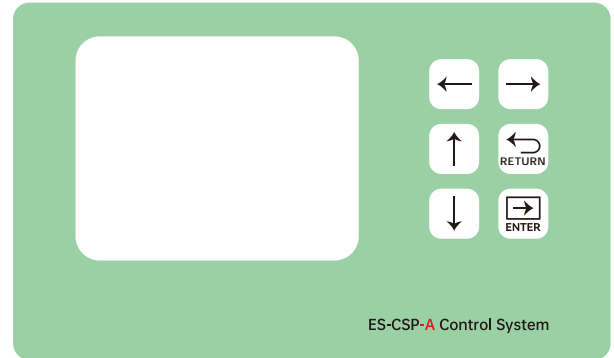
UP/DOWN The button is used to change cursor position from up to down, or adjust the current program.



RETURN The button is used to return to the previous



ENTER The button is used to enter new page or function programming



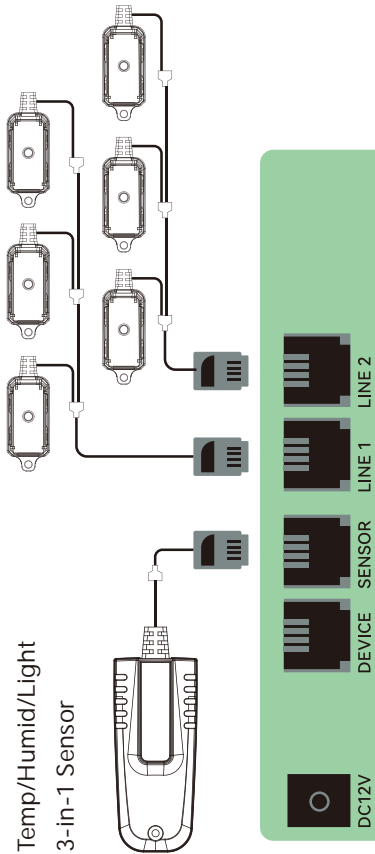
Try to familiarize yourself with the function of the 6 push buttons, and better understand the system to its greatest potential.

Button Battery should be replaced within 6 month from the date of delivery.

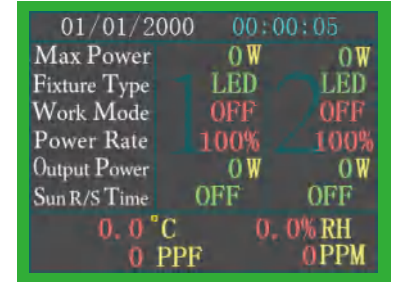
Try to familiarize yourself with the function of the 6 push buttons, and better understand the system to its greatest potential.

Button Battery should be replaced within 6 month from the date of delivery.

CONNECTION



MAIN MENU



Once we connected all devices and sensors to the control system, we can start using the unit.


Main menu allows to display parameters of:

- Max power • Fixture type • Work mode • Power rate,
- Output power • Sunrise/sunset time of the 2 lighting channels.

4 main data collected on temperature, humidity, light irradiation and CO2.

Press the buttons and move the cursor to corresponding position to change parameters.

Press any button to wake up the screen after it dims.

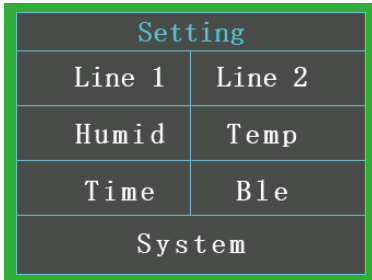
Press ENTER button  to SETTING MENU and starts to change the parameters.

SETTING MENU

Press ENTER button (↵) to SETTING MENU and starts to change the parameters.

The LCD screen displays 7 different subjects as shown in the picture.

Press the RIGHT button (→), the first item is chosen; Press buttons to move the cursor to choose different item.



Setting	
Line 1	Line 2
Humid	Temp
Time	Ble
System	

LIGHTING CHANNEL SETTING

Press ENTER button (↵) at the chosen item, move to the next page for setting details.

Press the buttons and move the cursor to corresponding position to change parameters.

Max Power Select the max power according to the real situation of the light fixture, each press with increments 10W.

Power Rate Select the power rate as percentage.

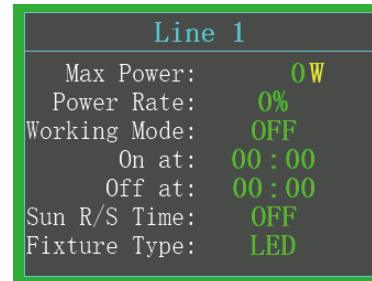
Working Mode Select the working mode as: ON - turn on the light to preset level; OFF - turn off light directly.

On at Select the required time of day to automatically turn ON the light.

OFF at Select the required time of day to automatically turn OFF the light.

Sun R/S Time Select the required time of day to automatically dim up the light slowly to preset brightness level as simulation of sunrise; and dim the light dark slowly as simulation of sunset. Function works in AUTO mode.

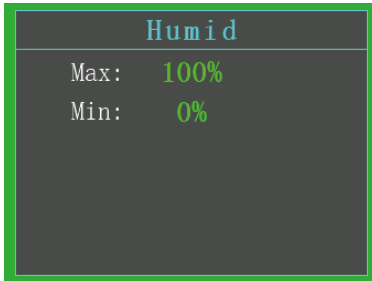
Fixture Type Select the lighting fixture type according to the real situation.



Line 1	
Max Power:	0W
Power Rate:	0%
Working Mode:	OFF
On at:	00:00
Off at:	00:00
Sun R/S Time:	OFF
Fixture Type:	LED

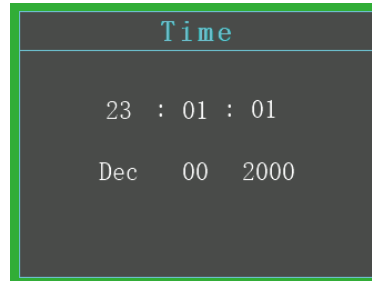
HUMIDITY SETTING

Press the **↑** **↓** buttons and move the cursor between MAX and MIN options, press **←** **→** button to adjust humidity value.



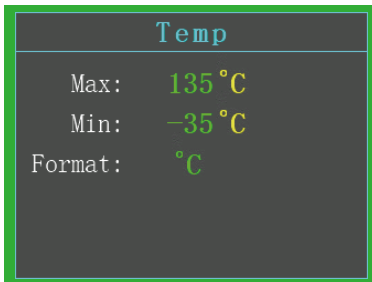
TIME SETTING

Press the **↑** **↓** buttons and move the cursor to corresponding position, press **←** **→** button to adjust time from second, minute, hour, date, month and year.



TEMPERATURE SETTING

Press the **↑** **↓** buttons and move the cursor between MAX/MIN options and format, press **←** **→** button to adjust temperature value and format between Celsius and Fahrenheit.



BLUETOOTH CONNECTION IF NEEDED

It shows whether the network has been connected and firmware information.

