Master Controller-S

USER MANUAL

Features

- User-Friendly Touch Screen, Easy to Operate
- Simultaneous Control of Two Groups of Lights
- Convenient Sunrise and Sunset Settings
- Temperature and Humidity Alarm
- Bluetooth Function to Connect Your Phone

Product Overview

HortiBest Master Controller-S is a growing environment control system. In addition to 0-10V dimming control, the system is also equipped with a thermometer and hygrometer, which can detect ambient temperature and humidity parameters and provide data to achieve overall environmental control. A 24-bit true color touch screen makes the operation simple and approachable. And there also a built-in Bluetooth module to support short-range wireless control.

SAFETY PRECAUTIONS AND OPERATION

Before using Master Controller-S, please read this manual thoroughly to ensure that you know how to operate the features and functions that your controller offers safely and efficiently.
This product is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or those who lack experience and knowledge, unless they have been given supervision or instruction concerning the use of the unit by a person responsible for their safety.

- The controller comes supplied with a 12V DC power supply. Do not substitute!

- Do not install the controller in a wet location or place where it may come in direct contact with running water.

- Do not place the controller or the temperature probe in direct heat from room heaters.

- Do not bend the power cable excessively or place heavy objects on it.

- Do not twist or tie the power cable tightly.

- Never unplug your controller by pulling on the power cord.

- Never use gas pipes, telephone lines, or other potential lightning attractors as an electrical ground as this could cause the units power supply to become unusable.

- Plug the power plug into the wall socket firmly. Do not use a damaged power plug, damaged power cable, or loose wall socket. This may result in an improper connection which can cause your LED to flicker or not work correctly.

- Do not spray the screen with chemicals. Clean the screen with a damp cloth using water only.

- Before cleaning or performing maintenance, unplug the power from the controller.

*** This controller is designed for use with LED drivers which are specifically designed for 0-10V dimming. Please check the product label on the light and driver before connecting to the controller to ensure the fixture has the appropriate 0-10V dimming capability. Failure to connect this product properly with appropriately labeled 0-10V dimmable driver will damage the controller and voids the warranty and any product return guarantees.

Accessories
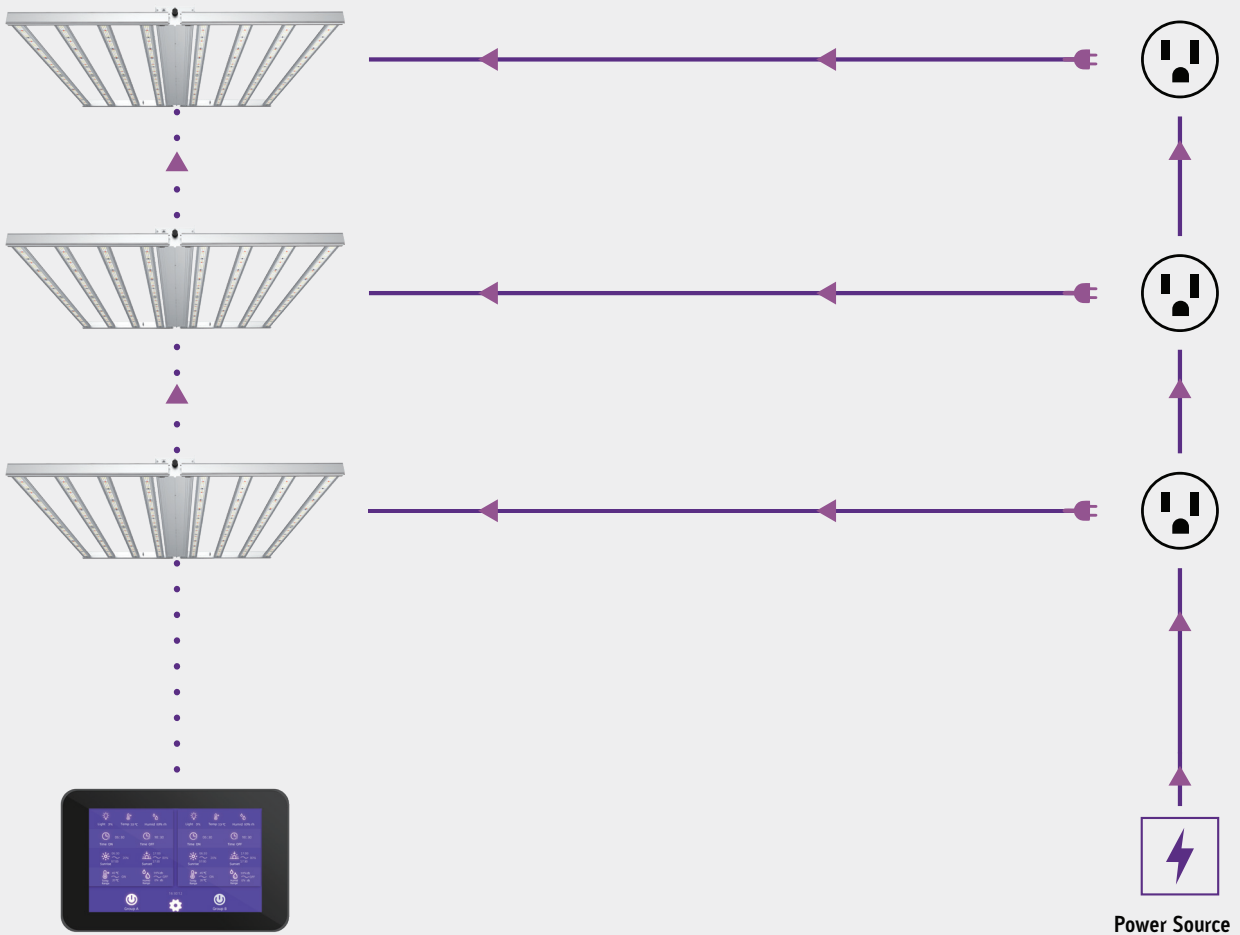

Power Adapter with 1.9m cable
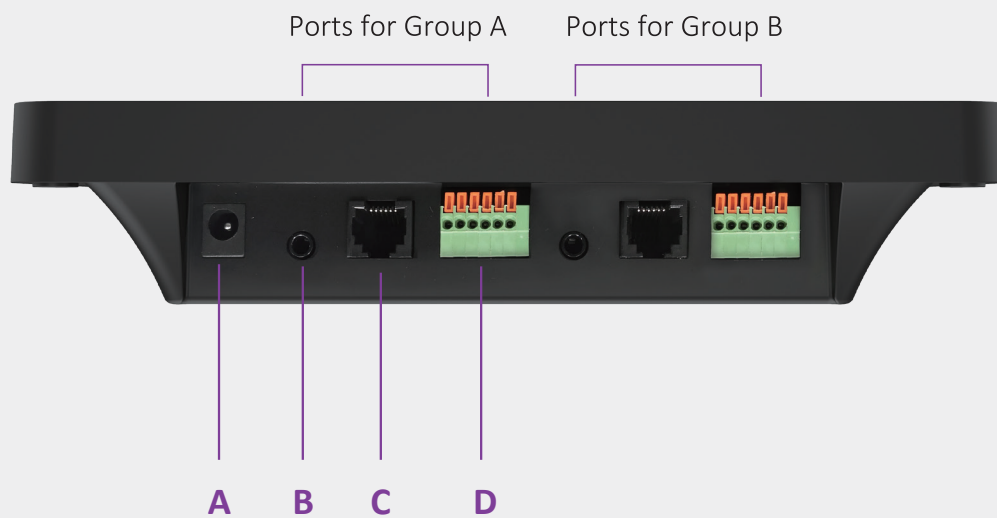

Dimming Cable 1.5m *2

Humidity Sensor1.45m *2

Flow Chart

Power Source

· · · · · RJ14 Communication

——— Power

Hardware Interface

Ports for Group A   Ports for Group B
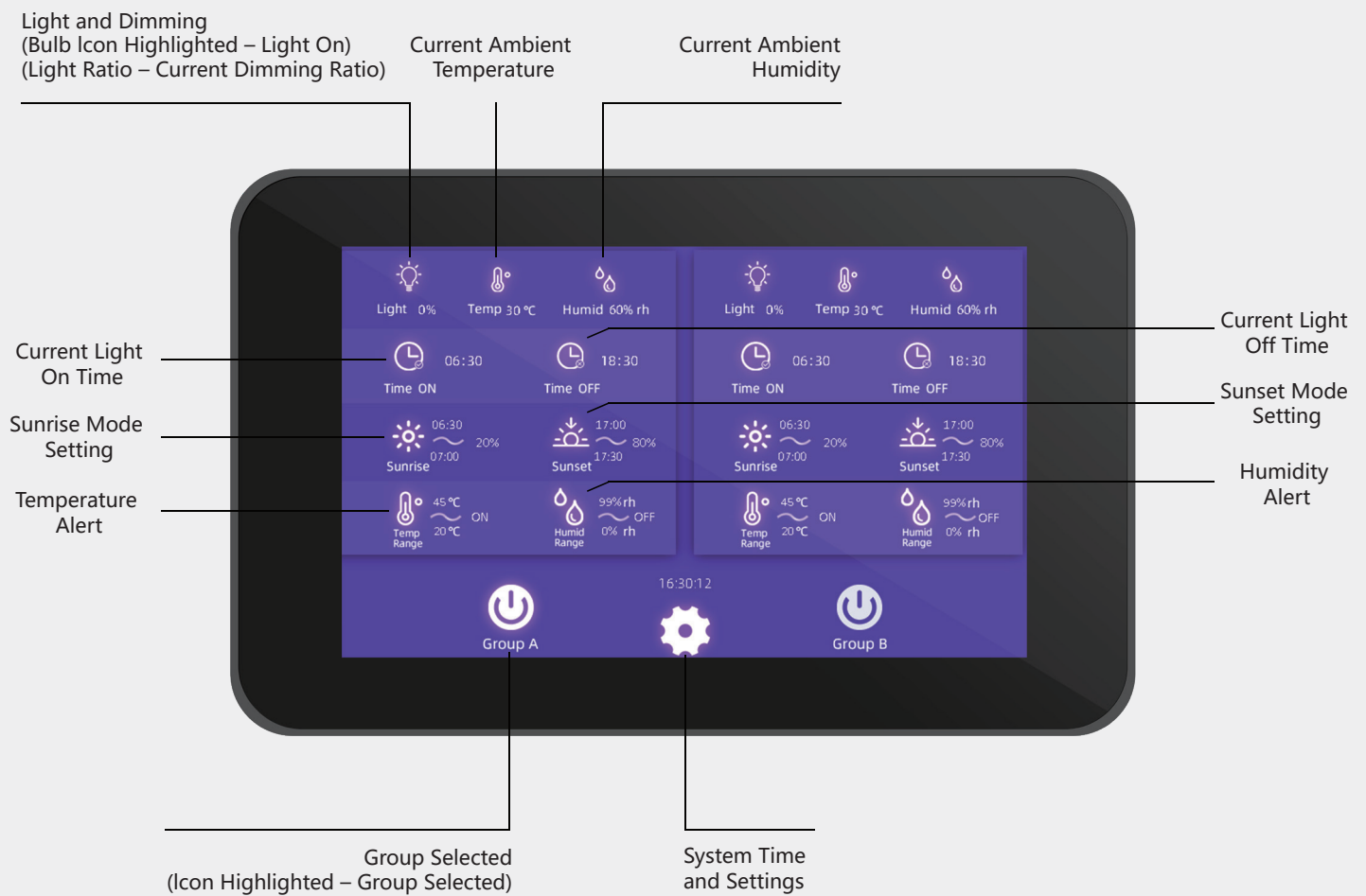
A   B   C   D

A   DC Input 12V

B   External Temperature. and Humidity Sensor Port

C   RJ14 Dimming Port

D   Provide two external on-off switch signals
           Temperature normal, 2 and 1 connected, 2 and 3 disconnected;
           Temperature alarm, 2 and 3 connected, 2 and 1 disconnected;
           Humidity normal, 5 and 4 connected, 5 and 6 disconnected;
           Humidity alarm, 5 and 6 connected, 5 and 4 disconnected.

TEMP   HUM

1   2   3   4   5   6

Main Screen

Light and Dimming
(Bulb Icon Highlighted – Light On)
(Light Ratio – Current Dimming Ratio)

Current Ambient
Temperature

Current Ambient
Humidity

Current Light
Off Time

Current Light
On Time

Sunset Mode
Setting

Sunrise Mode
Setting

Humidity
Alert

Temperature
Alert

Group Selected
(Icon Highlighted – Group Selected)

System Time
and Settings

* This controller can control two groups of lights at the same time,
and the control panel of group B is the same as that of group A.

Always remember to select Group
before operation.

Group A   Group B

Dimming Setting

☀ Tap bulb icon to enter dimming setting.

— Slide the block to adjust the dimming ratio.

OK Tap OK to save the setting.

Time On and Time Off

Tap the Time ON/Time OFF to set the lighting fixture turn-on/turn-off time.

Slide the number up and down to set the lighting fixture turn-on/turn-off time.

to activate the sunrise mode, ✕ to turn off the sunrise mode.

Tap OK to save the settings.

Sunrise and Sunset Mode

Sunrise and Sunset Mode allow users to set the turn-on/turn-off process of the lighting fixture in stages as the sunrise and sunset. Max. 3 dimming stages, each stage could last 1-60 minutes.

☀ � Tap the Sunrise/Sunset to set the sunrise/sunset mode.

⊶   Set the corresponding dimming ratio for each stage by sliding the block.

☑   to activate the sunrise mode, ☒ to turn off the sunrise mode.

OK   Tap OK to save the settings.

Temperature Settings

Temperature Settings allows to preset a temperature range. When the current ambient tempera-ture is not within the set temperature range, the controller will sound an alarm and pop up an alarm window.
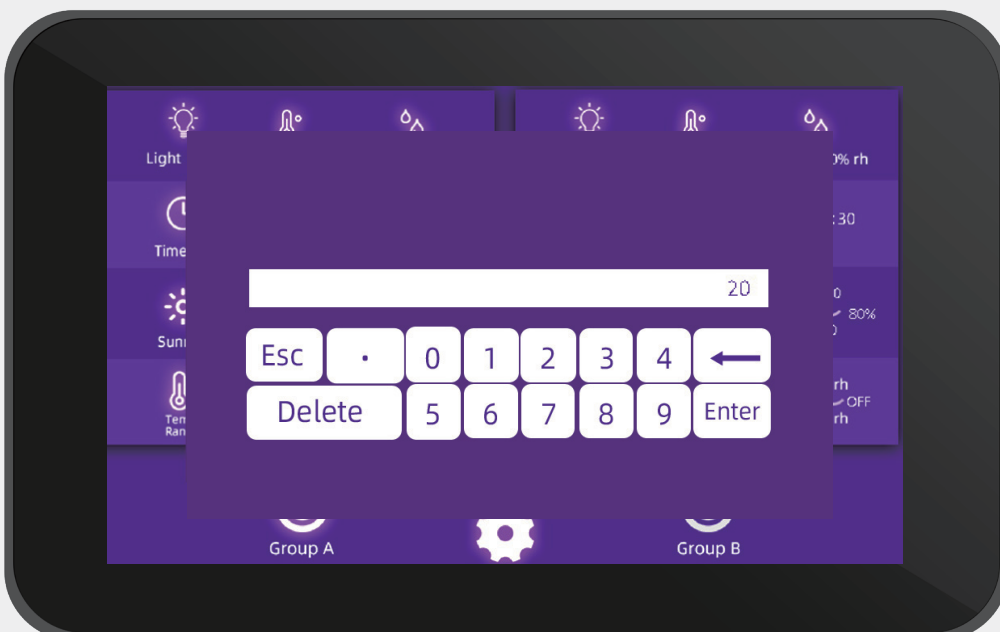
🌡°   Tap Temp Range Icon to preset the acceptable temperature range.

℃   Tap the number to enter the desired temperature value.

`Enter`   Tap Enter to save the value.

☑   to activate the temperature settings, ✕   to turn off the temperature settings.

`OK`   Tap OK to save the settings.

Humidity Settings

Humidity Settings allows to preset a humidity range. When the current ambient humidity is not within the set temperature range, the controller will sound an alarm and pop up an alarm window.
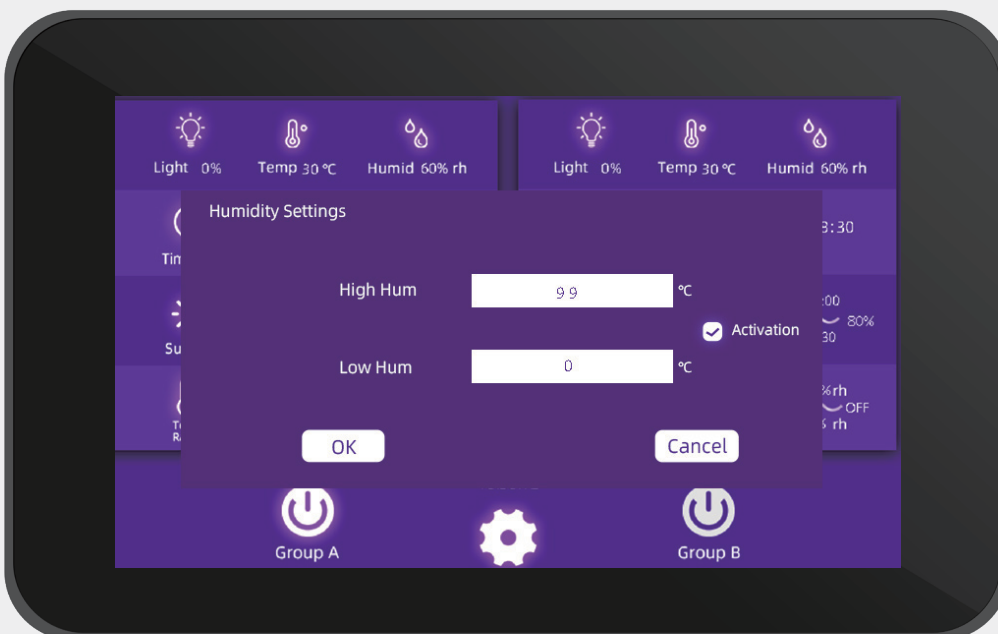
- Tap Humid Range Icon to preset the acceptable temperature range.
- ℃ Tap the number to enter the desired temperature value.
- Enter Tap Enter to save the value.
- ☑ to activate the temperature settings, ☒ to turn off the temperature settings.
- OK Tap OK to save the settings.

System Settings

▣ᵀⁱᵐᵉ Current Time Setting – Slide the number to set the system current time, tap enter to save the settings.

P Max Power – Tap the number to enter the power value of lighting fixture.

🌡° Temperature Type – Select temperature unit, Fahrenheit or Celsius.

🔊 Loudspeaker Icon – Tap to select mute mode or not.

▥ QR Code – Use smart phone to scan the QR code to use Bluetooth control mode.

Electrical Parameters

Input Voltage	DC12V
Power Adapter	Input AC100-277V, 50/60Hz, Output DC12V
Dimming Type	0-10V
Controller Dimension	201*103*39mm
Operating Temperature	-20 ~ 45℃
Operating Humidity	<95% (No Condensation)
Storage Temperature	-20 ~ 85℃