

COVERT



COVERT MASTER CONTROLLER

USER MANUAL

Installation and Operating Instructions

PLEASE READ ALL
INSTRUCTIONS
BEFORE SETTING UP
OR USING THE
PRODUCT

INTRODUCTION:

Thank you for purchasing the new Covert Advanced Master Lighting Controller. Here at Hydrobuilder.com, we strive to provide cost-effective horticulture lighting solutions for all growers, no matter the budget. Our premium master controller is designed for ease-of-use with an all-new large touchscreen display that makes setup a breeze.



SAFETY WARNINGS:

1. Keep the touchscreen controller in a cool and dry environment, away from dust, heat, and moisture.
2. Make sure all RJ and power cords are safely routed away from heat sources, moisture, mechanical movement, or anything else that might damage cords.
3. Do not use abrasives, acids, or solvents to clean the master controller. You should only use a soft, dry cloth to clean the controller if needed.
4. Do not attempt to disassemble or repair the master controller. This will void the product warranty.

WHAT'S INCLUDED

- A. Covert Advanced Master Controller with Touchscreen
- B. 120-240 Volt AC - 15V DC Power Adapter (1000mA)
- C. External RJ14 Network Data Cable
- D. 2x Temperature / Humidity Sensor with Cable, 16 ft.
- E. 2x wall Mount Countersunk Screws
- F. 2x Wall Mount Plugs



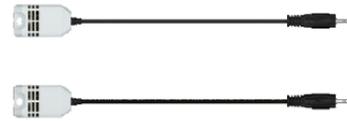
A



B



C



D



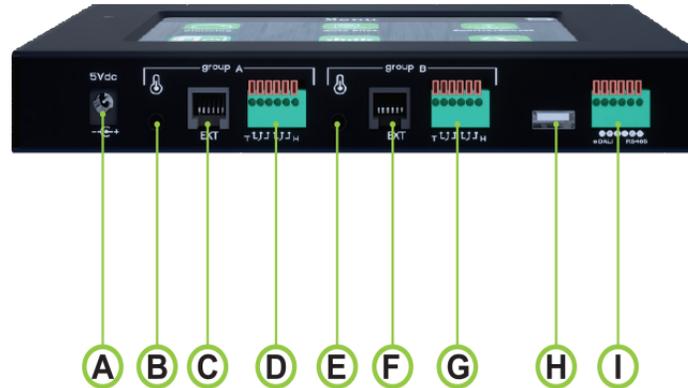
E



F

SETUP & CONNECTION:

CONNECTIONS:



CONNECTIONS	
A	DC 5V Power Input
B	3.5mm jack aux temperature/ humidity sensor
C	RJ14 aux port for controlling up to 160pcs fixtures
D	Relay switch controlled by temperature/ humidity sensor
E	3.5mm jack aux temperature/ humidity sensor
F	RJ14 aux port for controlling up to 160pcs fixtures
G	Relay switch controlled by temperature/ humidity sensor
H	USB
I	eDALI/RS485 Signal Output

PREPARATION & POWER SUPPLY HOOKUP:

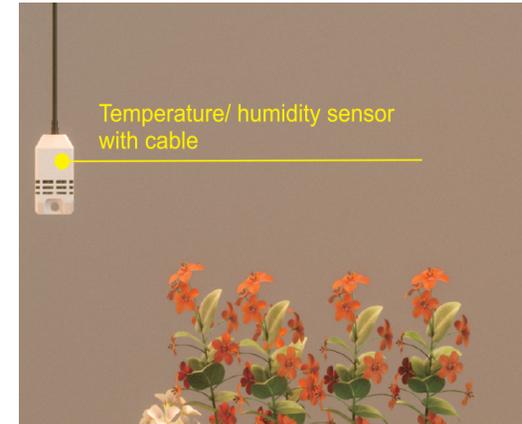
Mount the grow light fixtures per lighting plan. Make sure the rotary knob is set to EXT.

Mount the controller to a secure surface using the included screws. Make sure the controller is away from heat sources. **NOTE:** the distance between the center of each mounting hole is 10cm.



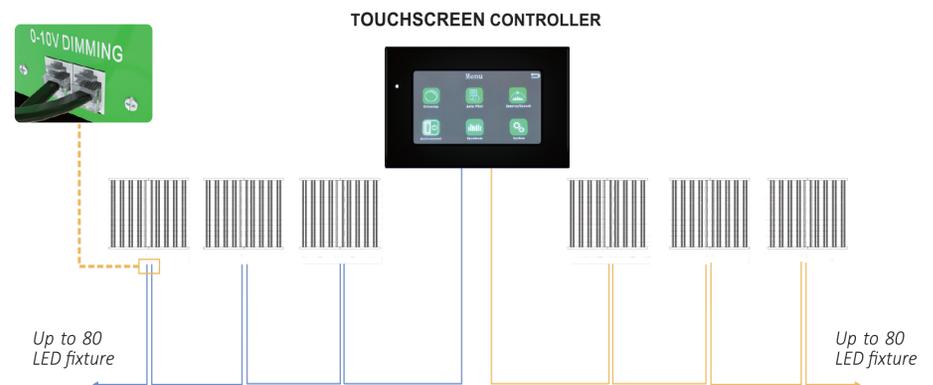
TEMPERATURE AND HUMIDITY SENSOR SETUP:

Connect the all-in-one temperature and humidity sensor plug into the smart controller port for Group A. **NOTE:** Shown on the diagram as connection B on page 4. Hang the sensor at canopy height, making sure the cords are away from direct heat sources. Repeat install for Group B if applicable. **NOTE:** Shown as connection E on page 4 diagram.



CONNECTING CONTROLLER TO GROW LIGHTS:

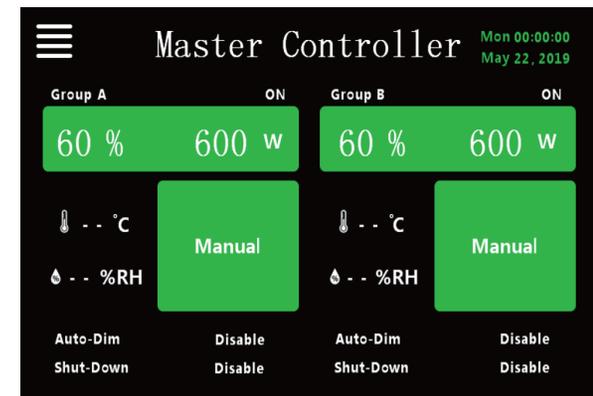
Connect one end of the RJ14 cord to the controller port A, and the other end to the fixture port A.



MENU & SETTINGS

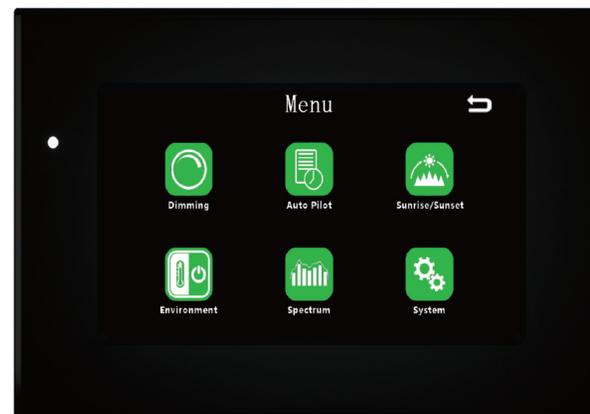
MENU DISPLAY:

1. Displays the power level in percentages and watts. Touch this tab to access the "Dimming Menu".
2. Touch the date and time to access the controller clock and calendar.
3. Displays "Auto Dim" mode. Touch for access to the temp and auto dim settings.
4. Touch the top left button to access the main menu.



MAIN MENU:

1. Touch "Dimming" to access power level settings.
2. Touch "Auto Pilot" to access "Daily or Custom Cycle" options and program timer settings.
3. Touch "Sunrise/Sunset" options to set graduated timers, activate and deactivate settings.
4. Touch "Environment" to access emergency dim and shut off options that protect the crop from excessive heat if exceeding a selected temp range.
5. Touch "Spectrum" for spectrum control (if applicable).
6. Touch "System" to access general settings and system options.

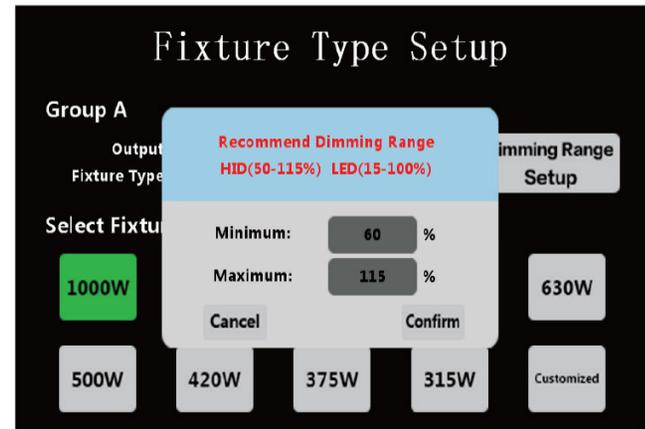
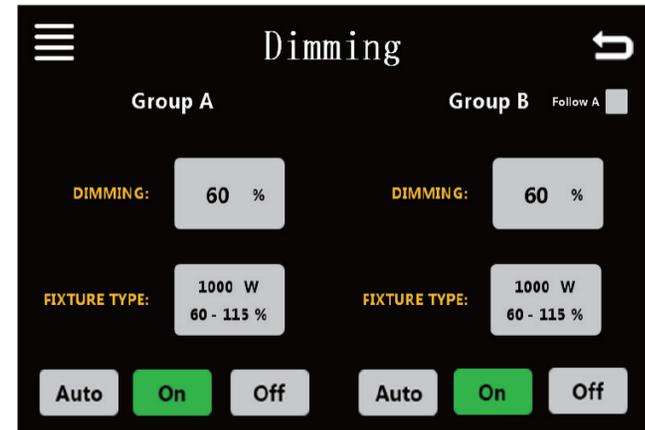


DIMMING MENU

1. Touch to select Group A or Group B to adjust or view settings. Touch "Dimming" to adjust dim settings from 50% - 115% with HID's and 15% - 100% with LEDs. Touch "Auto" to turn on or turn off the light according to the timer settings.

2. Touch "Fixture Type Setup" to select fixture type and power levels. Touch and select fixture type or "Customized" if wattage is not shown. Touch "Dimming Range Setup" to program min and max power levels.

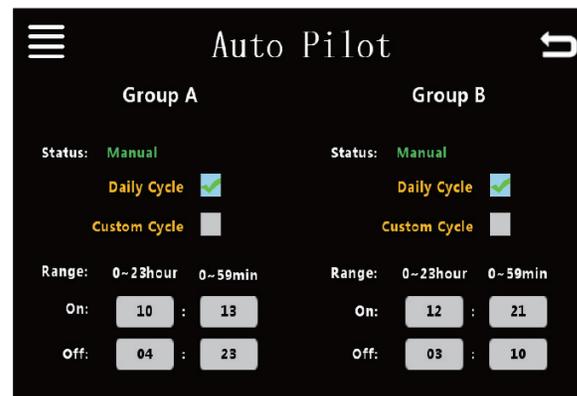
NOTE: Minimum settings for HID must be 50% or higher for lamps to ignite and minimum setting for LED's is 15% or higher.



AUTO PILOT

1. Touch and select "Daily Cycle" to run dimmer in conjunction with the clock. Touch and choose "Custom Cycle" to select the number of hours the clock fixture will be on or off. Touch "On" and "Off" time settings to adjust the Auto Pilot timers. Be aware of cycle settings when programming the timers.

NOTE: Custom Cycle example settings 9:00 and 19:00 would mean the light is set for 9 hours on and 19 hours off and **NOT** on at 9:00 and off at 19:00.



SUNRISE / SUNSET MENU

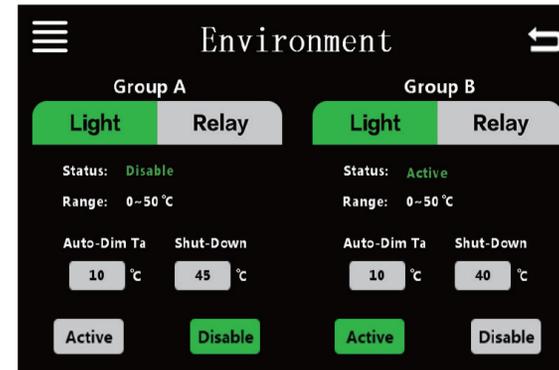
1. Touch the minute value to adjust the "Sunrise/Sunset" settings from 10-60 minutes. Touch to activate or disable the Sunrise/Sunset settings.

NOTE: Sunset setting will dim the lights before the scheduled off time and lights will be off by scheduled time.



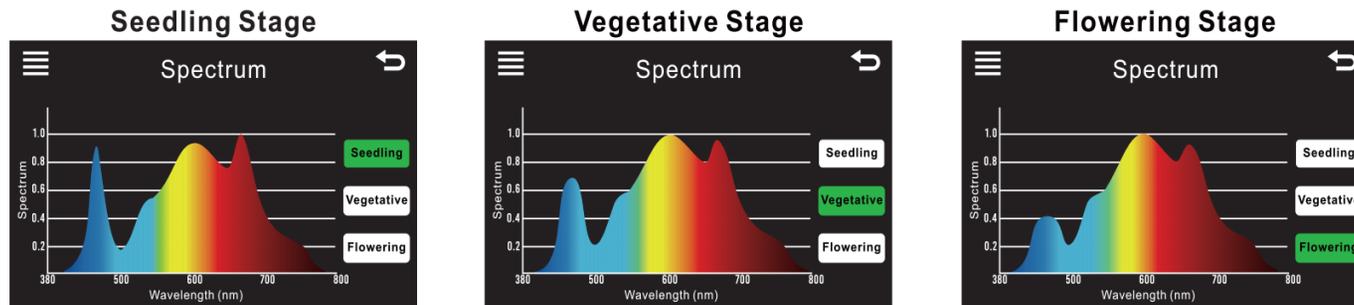
ENVIRONMENT MENU

1. Touch "Auto-Dim" to set the temperature at which the controller will dim the lights in case of excessive heat. Touch "Shut-Down" to set the temperature at which the controller will turn off the lights in case excessive heat continues to raise.



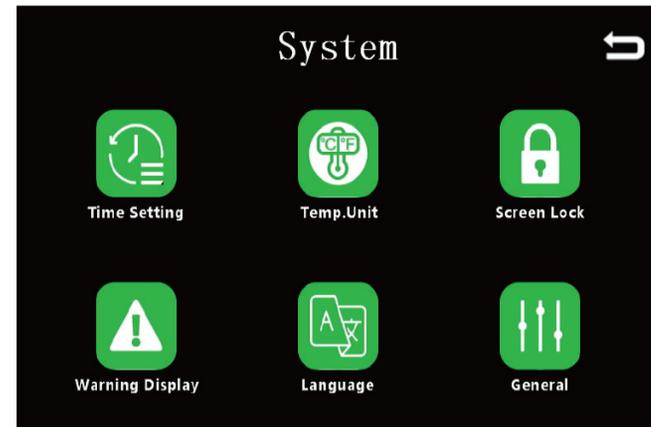
SPECTRUM MENU

1. Select the spectrum for various stages of growth. **NOTE:** This function is only applicable to specific adjustable spectrum grow lights and does not work on Covert Fixed Full-Spectrum LEDX & PRO Series grow lights.



SYSTEM MENU

1. Touch for access to "Time Settings".
2. Touch for access to Fahrenheit or Celsius temperature selection.
3. Touch for access to "Screen Lock".
4. Touch for access to "Warning Display".
5. Touch for access to "Language" option.
6. Touch for access to "General" settings.



Press this button for the lock screen, the indicator light blinking press again for unlocking screen, the indicator light off.

COVERT

TEL: 888-815-9763

EMAIL: SUPPORT@HYDROBUILDER.COM

WEBSITE: WWW.HYDROBUILDER.COM

ADDRESS: 312 OTTERSON RD STE D, CHICO, CA, 95928



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