

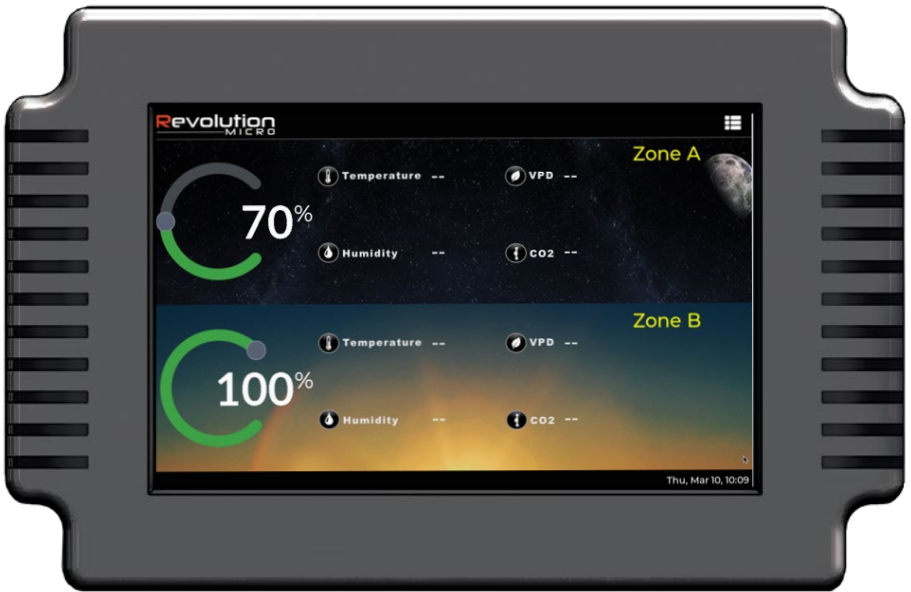
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# Owner's Manual

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# Revolution MICRO

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## TOUCHMI DIGITAL LIGHTING CONTROLLER

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# TouchMi All Digital Lighting Controller

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120/240/277v or 347v

## Owner's Manual

Updated Jan 24, 2022

This manual will tell you how to hang, connect and operate your TouchMi.

The TouchMi can control up to 512 lights in two zones with up to 256 lights in each zone. The TouchMi can control any Revolution or compatible light such as the Phantom, MaxiBright, etc.

### The Box Contains

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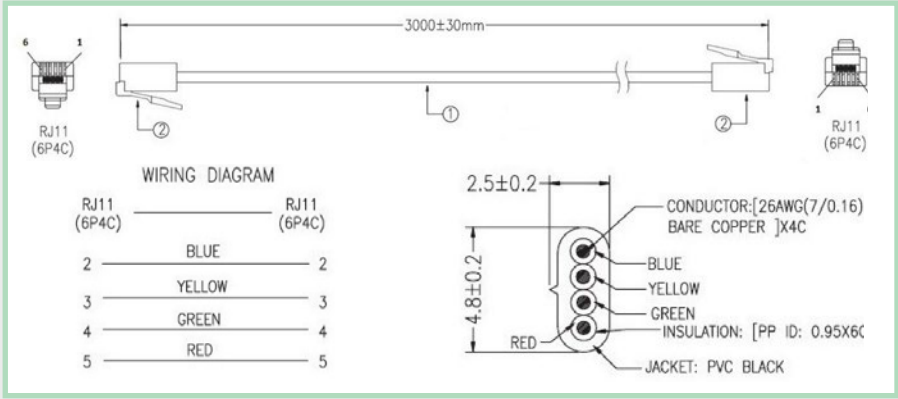
- The TouchMi
- 1 digital sensor
- 9v DC Power Pack (120-240v)

## Installing the TouchMi

Traditional lighting controls use mechanical relays to power ballasts on and off. The TouchMi uses a low voltage digital data stream to switch, dim, and boost any Revolution, Phantom, MaxiBright or other ballasts equipped with a Revolution-style RS-485 data port. The controller has a VPD sensor and has the capability of automatically dimming lights during high temperatures and even shutting down lights at extreme temperatures. Ballast control wiring is done with common telephone cables (RJ14 plugs) which can be used to daisy-chain the ballasts together. Compatible ballasts and lighting systems include a cable and splitter for the RS-485 data port.

# Data Cables and Connections

These are the data cables we supply. If you get longer or different ones, make sure they are wired like this.



## TouchMi uses RJ14 splitters and RJ14 cables up like this.

If you get RJ-type cables from a local source, make sure they are straight-through and match the image below. RevMicro has the right cables of all sizes should you need them, or <http://digikey.com> is a good source in the USA.



## These are the correct RJ14 cables.

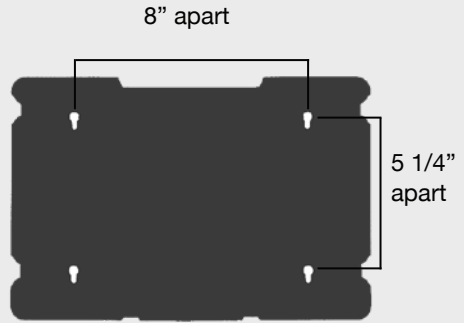
Looking at these cables, you'll see the wires are the same by color, pin 1 to 1, pin 2 to 2, etc. on each connector.



# Mounting the Controller

The TouchMi is designed to be wall mounted like a picture frame using the holes in the back.

The TouchMi is mounted by four “keyhole” style holes which slot over four screws set in the desired location. The screws should be placed 8” side to side and 5 1/4 inches top to bottom.



## Next, Plug it In

Plug the included AC adapter into a power outlet and connect the other end to the TouchMi's AC input jack on the bottom panel. Next plug the VPD sensor into the corresponding jack on the bottom panel and run your probe cable its full length up to and across the ceiling if possible, toward the center of the grow space. If possible, suspend the probe down into the space above the plant canopy. Take care not to stress or damage the probe cable when securing it to walls and ceilings.

## Operating the TouchMi

The TouchMi is designed for easy use.

The TouchMi has a touchscreen with drop down menus for easy customization and personalization. The options on the right allow you to navigate easily from page to page, and the homescreen shows you an overview of the environmental factors of your grow.

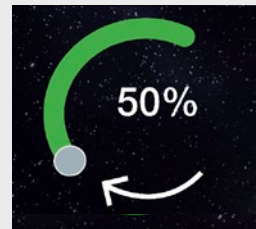
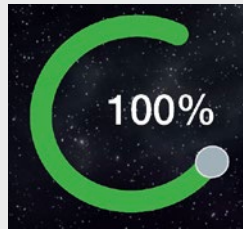
# Step 1

When the TouchMi powers up, the display will default to the Main page showing zone temperatures, power levels and lights on or off as Day / Night. The green dial allows you to change the wattage/ brightness of the light.



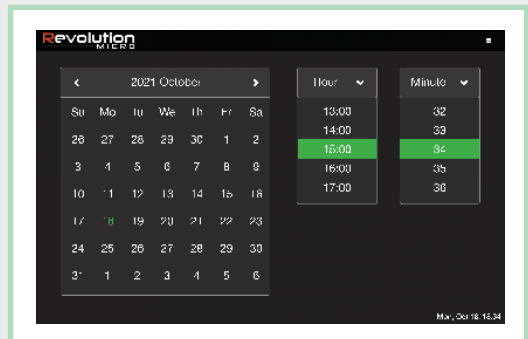
## Set Brightness and Power

Turn the dial using the gray circle to set power output.



# Step 2

Press the Date/Time button on the panel located on the home page to get to the Setup page where you can set the date and time.



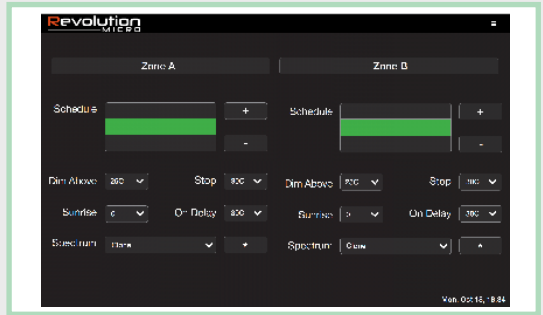
## Internal Clock

For HPS lights that need cooling time, the TouchMi has an internal clock and starts counting when the power goes out, so a 30 minute on-delay will only have 10 minutes to run if the power comes back on in 20 minutes, minimizing changes to your photoperiod.

## Step 3

Press the Settings button until you bring up Zone A to set up your first room.

Each Zone page lets you choose the type of light you have and the size ballast driving it. A 1000w HPS like the DEva has six (6) power settings while a 315w CMH has two.



### Sunrise Sunset

Some light types (like HPS) have the optional Sunrise/Sunset function where you can choose how many minutes to gently bring the lights up to (and down from) full power.

### Delay Function

You can also set the Delay function to delay the lights coming back after a power outage.

## Step 4

Set up the second zone in the same way.

You can change the names from Zone A and Zone B to whatever you like best. Just tap the Zone name and type!

### Helpful Hints

If you change your mind on something, simply go to another page without saving.

If you get called away in the middle of changing something, TouchMi goes back to the Main screen without saving after 30 seconds.

# LED Spectrum Control

## Customize your Spectrum

Tap the **+** button on the Settings page and use the sliding bars to change the color spectrum if you are using an LED.



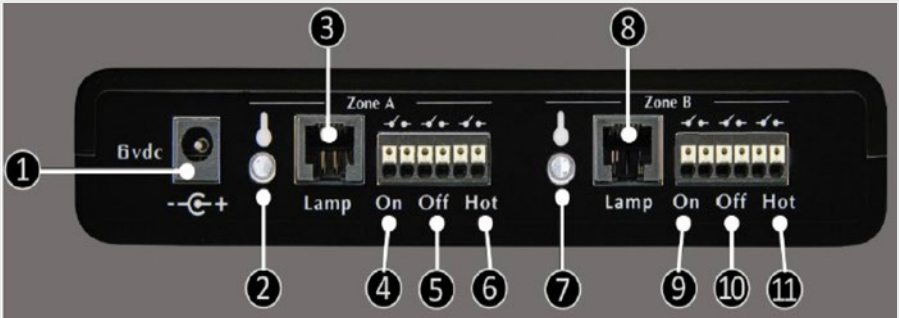
## LED Default Settings

If you've made changes and want to go back to our defaults, here's how the TouchMi is set up from the factory:

Preset:	Blue	White	Red
Clone	5	10	5
Veg	10	10	10
Flower	8	10	10
Finish	10	10	5

# External Connections

The bottom of the TouchMi has eleven (11) connectors:



1. Power (6v DC)
2. Zone A temperature sensor
3. Zone A Communications port to lights
4. Zone A Low-voltage external equipment trigger for Lights On
5. Zone A Low-voltage external equipment trigger for Lights Off
6. Zone A Low-voltage external equipment trigger for over temperature
7. Zone B temperature sensor
8. Zone B Communications port to lights
9. Zone B Low-voltage external equipment trigger for Lights On
10. Zone B Low-voltage external equipment trigger for Lights Off
11. Zone B Low-voltage external equipment trigger for over temperature

External triggers are two wires, dry contacts, 1/2 amp maximum.