

# Avici V3 Integrated LED Lighting System

48v DC

Owner's Manual 1 March, 2021

Congratulations on your new Avici. The Avici combines an array of Osram LEDs with our custom-designed drivers for one amazing, programmable spectrum, computer-controlled grow lighting system.

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



## The Box Contains

- Avici V3 Integrated LED Lighting System
- Power Cord
- Two custom light hangers

## Blinking LEDs – What Your Avici Is Telling You

### Blinks Once A Second – Over Temperature

If the Avici internal heatsink reaches a programmed over temperature point, it's way too hot and it will shut off with the OFF LED blinking on and off once a second. Once the internal temperature cools to 10 degrees below the over temp point, the Avici will automatically restart.

### Blinks Four Times A Second – Over Voltage / Under Voltage

If supplied power is outside safe operating range for the Avici, the LED will flash quickly to let you know the fixture is working but not going to come on.

If the status LED is flashing quickly you can either remove and reapply power, but best to check the electrical supply first. Incorrect supply voltage can destroy the fixture. Avici normal voltage range is 100v-300v and must be stable for 10 seconds to power up.

### Flickers Briefly Once a Second – External Control

The RLC1 and TouchMi Room Controller can control 512 Revolution lights in two zones. You can set on and off times, sunrise and sunset ramps, dimming with temperature and over temperature shutdown for each zone for lights that support these commands. Avici also accepts commands for color mixing for custom spectra. Please see the RLC1 and TouchMi manuals for details on controlling the output spectrum.

When the provided RJ-14 phone cable is plugged into the Avici and a Revolution controller, the front panel LED will blink off, very briefly, once a second to show you that Avici is controlled by an outside source and that communication is up and running.

If the cable becomes disconnected, Avici will maintain chosen power level and spectrum – just as you would expect. After a power failure, Avici returns to full power and spectrum if not commanded otherwise by a controller.

## Specifications

Spectrum	Programmable
PPF	1560 $\mu$ Mole
Max Wattage	645w
Input Current	13.44 A at 48 volts DC
Input Voltage	48 volts DC
Input Power Plug	NEMA 6-15P (240v) or NEMA 5 or NEMA L7P
Power Factor	0.99 @ 120 volts
Light Source	Osram OSOLON LED array
Lifetime	> 150,000 hours
Ingress Rating	IP67
RMH (Recommended Mounted Height Above Canopy)	> 16"
Footprint @RMH	4' x 4'
Dimming / Spectrum Control	External Controller
Dimensions	40 x 44 x 2.5 inches (~ 38 lbs)

## FCC Compliance Statement

### Avici V3

The Avici Integrated LED Lighting System has been tested at FCC-certified laboratories in the United States and conforms to FCC's Part 15B Consumer standard for both conducted and radiated emissions.

Given that all electronic equipment emits some RF energy, please note that compliance with these standards does not mean a zero level of emission, only a very low level of emission.

#### The FCC requires that we also state:

This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45-30 MHz.

This device complies with Part 15 of the FCC Rules. Changes or modifications not expressly approved by Revolution Microelectronics could void the user's authority to operate the equipment.