


## Autobud GrowManger UI:

 Autobud GrowManager

HomeUpdate FirmwareRebootRestart Grow

Beta Version: 0.961

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### Auto Water

Auto Water: (Water Every 8 Hours):

Water Amount (oz): (Current: 4):

Water Calibration (5.7 seconds per oz):

Water Tank Volume ( 64 oz):

Dry Soil Threshold ( Precent Dry):

Grow Status  
DeviceID: 14  
Grow Day: 44  
Total Days In Veg: 6  
Total Days In Flower: 22  
Hour: 24  
Watering in 2 Hours  
Water Tank Level: 32 Ounces Remaining

Sensor Data  
Tempature: 73.58  
Humidity: 70.00  
Soil Moisture: 162.58

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### Light Recording

Light Hours: (Current: 12):

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### Auto Override

Grow Hour Shift:

Grow Day Shift:

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### Connections & Configuration

WiFi SSID (Sub\_Space):

WiFi Password (\*\*\*\*):

API Endpoint: (Current: http://192.168.0.204:1880):

Alert Text/Email: (Current: ):

Device ID: (Current: 14):

Pump GPIO: (Current: 12):

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Designed by Autobud.io

## Setup:

1. Plug in AGM and hold down the power button for 10 seconds. Device will show a green light indicator to the right of the power button

2. Autobud will begin broadcasting its WiFi network. From a computer or mobile phone, join the broadcasted network:
  - a. SSID: Autobud
  - b. Password: Grow4life
3. Once you connect to the network, open the UI at <http://192.168.4.1>
4. From here you can configure all grow settings. If you would like to connect the device to your local Wifi network see functions below

## **UI Functions:**

### **Interface Functions**

#### **Auto Water**

**Auto Water:** Frequency that the AGM initiates a water action (in hours)

**Water Amount:** Amount of water to deliver (in oz)

**Water Calibration:** The amount of time (in seconds) that the pump operates to deliver 1 oz of water. This will need to be determined by the user based on the setup.

#### **To Calibrate:**

Using a measuring device, use a stop watch to time how long it takes to deliver 16 oz of water (in seconds). Divide that number by 16 to get the water calibration number.

**Water Tank Volume:** The capacity of the water reserve tank (in oz)

**Dry Soil Threshold:** The target soil moisture content where the device will initiate a water event. (Requires external sensor).

#### **Light Recording**

The amount of time (in hours) the internal lighting is on (will be added in next release to control separate relay)

#### **Auto Override**

**Water:** Initiate an on demand watering. Will water based on Amount & Calibration

**Refill Water Tank:** Sets the tank level to its capacity

**Grow Hour Shift:** Overrides the AGMs internal hour clock. Useful when changing lighting times (for example, if you want the lights to come on at 8AM and its 10AM right now, you want to set the current hour to 2. Lights will always start at hour 1).

**Grow Day Shift:** Shifts the Grow Day. Useful when moving plants between grow areas

### **Connections & Configuration**

**WiFi SSID:** Name of your SSID for WiFi

**WiFi Password:** Password for WiFi

(note, you must reboot the controller for this to take effect. Wifi operations happen at bootup)

**Below features will be explained when Datacenter is released**

**API Endpoint:** Endpoint where controller posts data

**Alert Text/Email:** Address where notifications are sent

**Device ID:** ID of device for recording processes

**Pump GPIO:** GPIO of connected pump to microcontroller (will depend on device)

**Grow Status:**

DeviceD: ID of device

Grow Day: How many days the plant has lived (from seed)

Total Days in Veg: Days spent where lighting interval has been greater than 12 hours per day

Total Days in Flower: Days spent where lighting interval is 12 hours or less

Hour: Grow hour

Watering in: Time in hours before next watering

Water tank Level: Remaining fluid in oz (only works where runoff is not re circulated into tank and device is properly calibrated)

**Sensor Data** (requires external Sensor)

Shows data received by external sensor