

# THE HORTICULTURE CAMERA



BECAUSE EVERY GROW ROOM NEEDS A LITTLE

# TIME LAPSE CAMERA

# Camera based horticulture monitoring systems do not exist, you have to point a security camera at a utility wall and anything else you want to see remotely

- Users must:
  - Purchase a lot of expensive equipment, each with their own plugs, digital interfaces, apps and sensors.
  - Create a utility wall where the digital interfaces mount.
  - Point a security camera at the utility wall in order to see what's going on remotely.
- Multiple:
  - Applications are required. You must log in and out of them to control the system remotely.
  - Types of cameras, including time-lapse, and security cameras are being utilized already.





# **Introducing The Horticulture Camera**

**The camera's patented technology is a first of a kind product in a new and untapped industry of horticulture cameras. Our goal is to provide the most intuitive, automatic, remote-controlled grow system ever. It will truly be a one-stop shop for total remote control and peace of mind.**

# What does it do?

## The Horticulture Camera:

- **Uses time-lapse photography as a timeline to record all atmospheric values, as well as soil and water conditions.**
- **Is an automation system for growing plants that incorporates cameras for security purposes, peace of mind, and promoting the best gear through sharing the videos.**
- **Monitors and controls the environment by giving and taking power away from the utilities based on Timers, schedules, thresholds, AI override, and manual switches.**
- **Uses time-lapse photography and AI to detect issues as they develop, and then gives corrective advice.**
- **Calculates NPK scores automatically based on the various nutrients that are being used. The system will show you what to look out for to prevent damage to the crop. The system will anticipate and look out for specific, tell-tail signs using its camera lenses.**
- **Videos can be paused to see what happened at any given time in the plant's life.**



# Multi industry interest

**Photography.**

**It creates high-quality time-lapse videos.**

**Big Ag.**

**It is scalable & adaptable to its environment.**

**Plant Biology.**

**It teaches people about plants.**

**AI.**

**It provides corrective advice.**

**Security.**

**It works just like a security camera system.**

**Integrated home systems.**

**It will be compatible with smart home systems.**

## QR codes

**Will be used to scan new utilities and nutrients into the system via the THC application.**

**The system will automatically recognize the utilities and nutrients.**

**The system will know everything it needs to know about the products including wattage usage and NPK values. This is important so you don't overdose your plants or overwhelm your electrical circuit.**

# **The type of videos this will create**

**4K time-lapse videos that tracks and shows atmospheric data. Users will have the option to share a slide at the beginning or end of the video that shows everything it took to get to harvest or the end of the video. This will promote the good products and weed out the bad stuff.**

**The slides will show**

**How much electricity it took, and how many days.**

**What nutrients where used, and how much.**

**Witch utilities were used and how many.**

# Milestones

October 2021

Patent Submission

December 2024

Patent Challenges  
Successfully overcome

September 2025

The Horticulture Camera  
introduced on GoFundYourself

2021

2023

2024

2025

2025

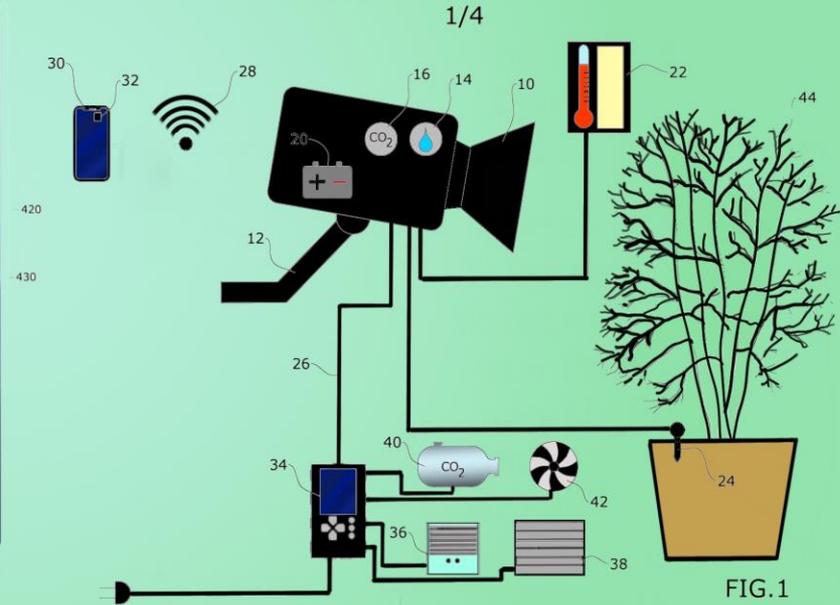
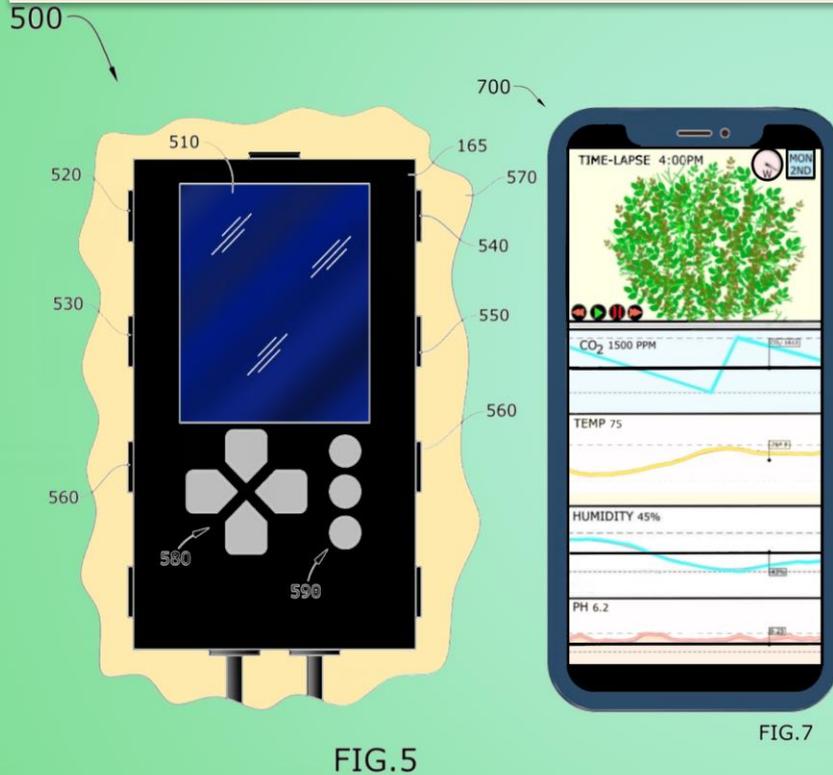
July 2023

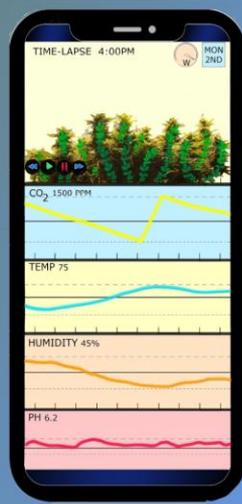
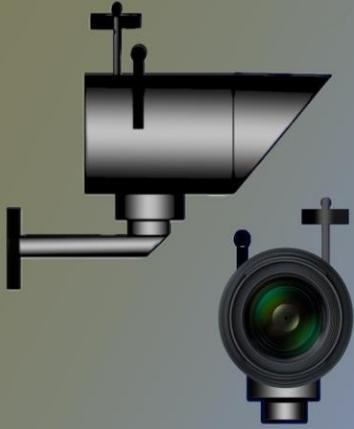
Patent Challenges  
Presented

July 2025

Patent Awarded and  
CID Submitted

# A peek at some of the patent drawings

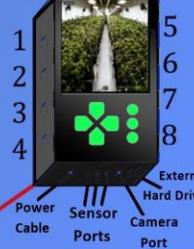




### Satellite Power Box

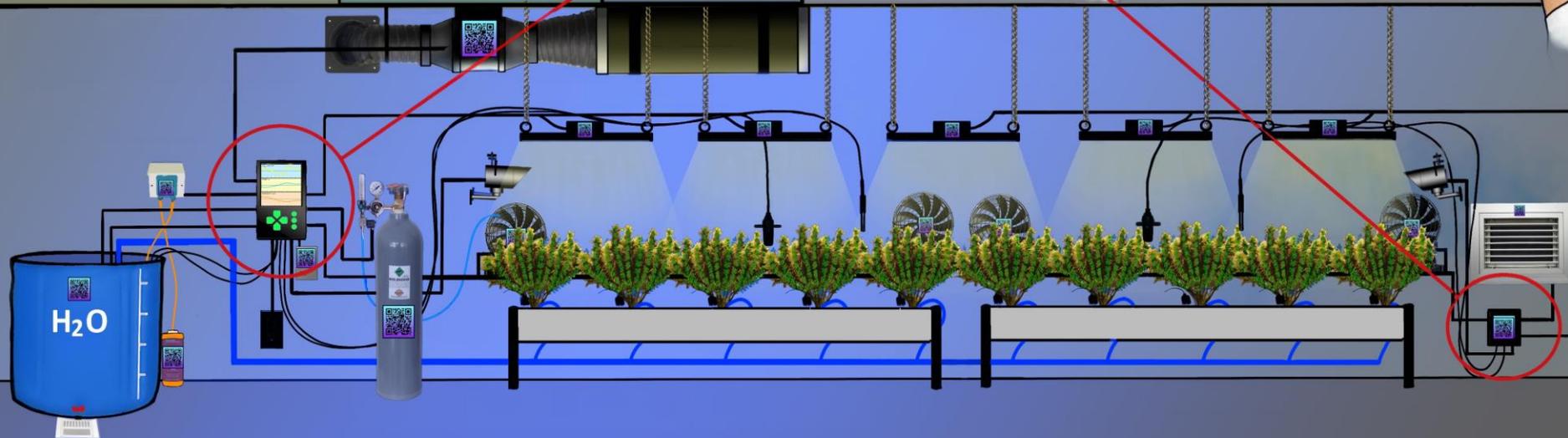


### Central Power Box

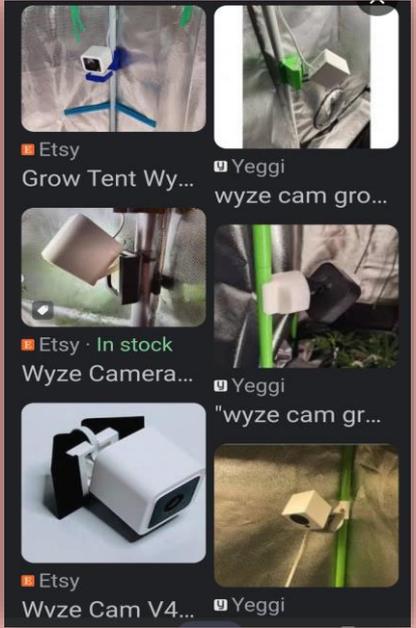
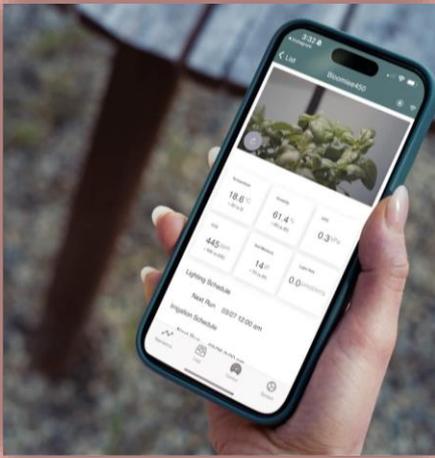


- 1.Canopy Fans 3 and 4.
  - 2.Empty Slot.
  - 3.Lights 3,4 and 5.
  - 4.A/C Unit.
- Camera 2 on the bottom.

- 1.Air Scrubber and Exhaust
  - 2.PH Dossor.
  - 3.Water Agitator.
  - 4.Water Pump.
  - 5.Empty Slot.
  - 6.Lights 1 and 2.
  - 7.Co2 Dispenser.
  - 8.Canopy Fans.
- Camera 1 on the bottom.



People are already using cameras in their grow and trying to consolidate control on to one remote application. The only challenge with that is, I field a patent for this years before they acted on it. Including a CID patent. Its time to build this.





# Each deficiency has its own tell-tale signs

**7**  
**N**  
14.01  
**Nitrogen**  
**Mobile**

**Occurrence**  
Stunted Growth and premature flowering leading to low yield  
Red-Purple Stems could occur

**Abnormally Dark Green Foliage**

**Leaf Clawing and downwards curling**

**Burnt tips caused by nutrient burn in severe cases**

**Yellowing moves up the plant as deficiency persists**

**Older leaves become yellow and tips burn**

**Grow Doc**

**Toxicity**      **Deficiency**

**15**  
**P**  
30.97  
**Phosphorus**  
**Mobile**

**Occurrence**  
Stunted growth, reduced yields

**Iron and Zinc Deficiencies**

**Dark green coloration**

**Disrupted Nutrient Intake**

**Necrosis sets in, leaves fall off in severe toxicities**

**Root Tips die back**

**Tipwards curling of the leaf**

**Necrotic patches persist into drooping foliage**

**More susceptible to pest and diseases**

**Grow Doc**

**Toxicity**      **Deficiency**

**19**  
**K**  
39.10  
**Potassium**  
**Mobile**

**Occurrence**  
Stunted Growth, reduced yields

**Dark brown coloration**

**Potassium Toxicity locks out Calcium and Magnesium**

**Dark brown coloration**

**Edges of leaves become necrotic, wilted and spotted**

**Leaf Claw making leaves curl downward**

**Root Tips die back**

**Main symptoms begin on the lower half, later spreading to the entire plant**

**Grow Doc**

**Toxicity**      **Deficiency**

**20**  
**Ca**  
40.08  
**Calcium**  
**Immobile**

**Occurrence**  
Missshapen branching and stunted growth  
Fan leaves begin to spot and curl

**More susceptible to heat stress**

**Alkaline soil conditions**

**Causes Phosphorus to fallout**

**Signs of Potassium, Magnesium, Iron, and Manganese Deficiency**

**Stunted root growth may become brownish in color**

**Chlorosis and dark veining in the leaves**

**Necrosis on tips and edges of leaves**

**Grow Doc**

**Toxicity**      **Deficiency**

**12**  
**Mg**  
24.31  
**Magnesium**  
**Mobile**

**Occurrence**  
Stunted growth

**widespread symptoms across the entire plant as deficiency develops**

**Leaflet midribs and margins become discolored**

**Darker green foliage**

**Signs of Calcium deficiency appear**

**Discoloration and interveinal chlorosis appear on lower leaves**

**Grow Doc**

**Toxicity**      **Deficiency**

**16**  
**S**  
32.07  
**Sulfur**  
**Partially Mobile**

**Occurrence**  
Overall spindly appearance and stunted growth

**Less development overall**

**Dark green color**

**Drying out and wilting leaf tips**

**Sulfur is well maintained by plants, toxicities are not prevalent**

**leaves become pale green to yellow**

**interveinal chlorosis is most severe in lower canopy fan leaves**

**Necrotic spots and edges on leaves**

**Grow Doc**

**Toxicity**      **Deficiency**

NPK or Nitrogen, Potassium and Phosphorus are the key essential nutrients that plants need to survive. It is vital that these values get calculated properly. The THC grow system will automatically tell you how much of each nutrient to use when mixing nutrients.



**N - P - K**  
**0 - 5 - 4**



## **Who is this product for**

The Horticulture Camera will be adaptable for small and large-scale horticulture/agriculture operations. It can adapt to any grow method that it's applied to. You can't control the outdoors, but it will monitor and control any devices connected to it. Maybe you might want to connect misters to your orchard and set them to a tempter threshold or to a schedule. Maybe someone wants to connect the THC camera to their existing security camera system or to their smart home system. This product will be for anyone that likes to grow plants. For one plant or for thousands of plants. Its modular, intuitive and adaptable.

## Our offer

We are offering a 35% ROI on a 100k investment.

We are asking for a 2-year period.

# Our Business plan

As soon as we can, we will start prototyping. This will take about 6 months. We will prove the concept by putting the THC grow system to the test. We will use its own videos as proof of concept and share the videos on social media platforms.

We will get about 100 preorders and give those people lower cost incentives for 2.0 versions along with free updates and more.

We will figure out the cost to build units and start selling them.

The prototype will be shown at tech conventions, agriculture conventions, dispensaries and on social media outlets etc.

We will find youtubers to indorse the product.

We will also license the camera to other security camera companies and integrated smart home companies.