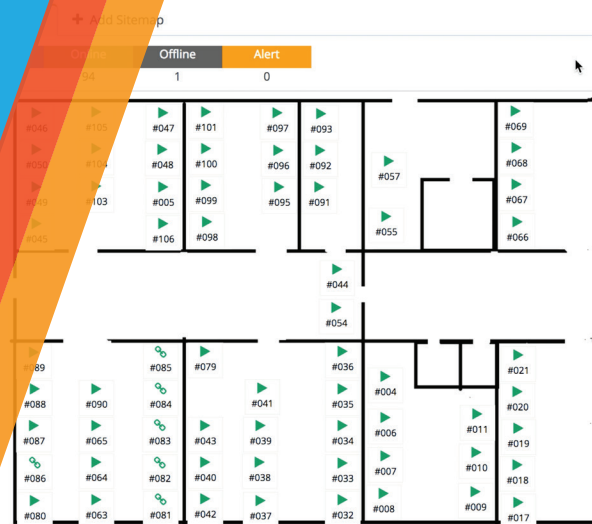# Guardian™
GROW MANAGER

AUTOMATED
Control

Reduce your labor costs by setting your Ætrium hardware to work for you, hassle free, worry free. Simply input a growth recipe and the software automatically adjusts everything for you.

EASY
Management

Guardian is effortless. Real-time sensor data gives you immediate situational awareness of your grow. Site maps allow you to pinpoint the exact location of each individual system.

SMARTER
Execution

Achieve the best return on investment. Improve yield **quality** and **consistency** after every grow. Streamline your processes through data analytics and achieve the most efficient growth.

ÆEssenseGrows

AEssenseGrows.com

Overview

Vigilant

Guardian™ Grow Manager provides 24-hour a day monitoring and control. based upon a pre-configured growth plan and builting-in aqueous and air sensors to measure and control the growth environment

Caretaker

Guardian is essentially a full time "nanny." Growers can step away from their grow securely knowing that their plants are safe.

Alerts

Were something to go wrong with the Ætrium System, Guardian can send texts and emails out to cultivators so that any issues can be quickly addresses without compromising the plants.

Automation

Lower your labor costs by letting the system automated your grow. You set your grow plan and Guardian manages everything: dosing, watering, and environmental monitoring. Keep your operation at the peak level of performance, 24x7, and reduce the risks to your profitable harvest.

Analytics

Achieve the highest yields and consistency by optimizing your grow each cycle.
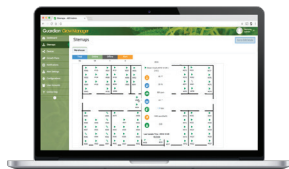
Easy and precise controls. Status, usage, and results for every irrigation and nutrient cycle (fertigation) are charted over time. Data is easily accessed with zoom-in/zoom-out data ranges and time sequence adjustments, enabling detailed analysis of production operations and growth performance.

Always be on top of things. Cultivators are pre-notified of pending grow requirements like calibration timing, clean up reminders, and likely nutrient refill schedules before supplies run out.

Facility Site Maps

The Grow Manager features an easy and intuitive site map system that allows cultivators to easily locate and identify individual systems in their grow room.
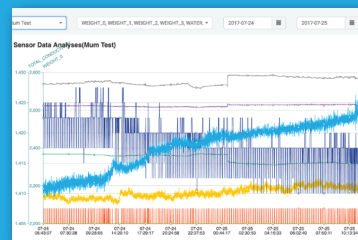
Simply import an image layout of the growth facility and place connected machines in their respective locations.
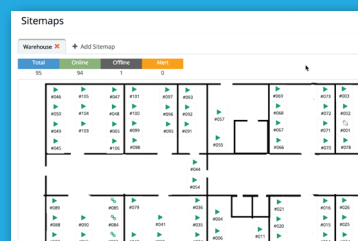
Remote Access

Access from anywhere. No one can be with their grow all the time, nor should they be. Guardian Grow Manager is internet-enabled by design, giving all powerful analytics and control features remotely.

Constant Feedback

Guardian's analytics system supplies you with a host of environmental growth data to make sure your grow is both healthy and accurate to your specifications.

Pinpoint Facility Control

Every growth tub is available at your fingertips. You can inquire, see, or change the settings for each tub for any Ætrium growth environment.
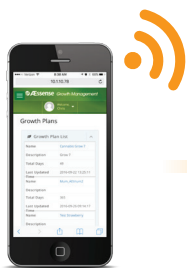
Stay Out of Your Growroom

Prevent pest introduction. Watch and control your grow from anywhere in the world. Use your smartphone, laptop, or tablet. Your entire facility, all at your fingertips.

How it Works

1. Startup

Premade Recipes
You have the option to select pre-made growth recipes designed by our plant scientists for optimum yield.

Start a Growth Recipe
To begin using an Ætrium growth system, Guardian first has you input or select a specific grow recipe.

Auto-Adjustments
The system automatically adjusts growth factors such as pH, temperature, humidity, and EC levels. All parameters are ready to view in real-time.
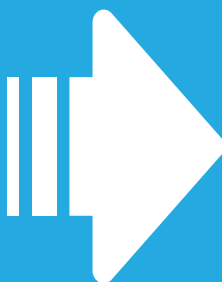
2. Growing

Machine Feedback
Ætrium-4 and Ætrium 2.1 are loaded with advanced sensors. These feed data back into Guardian to adjust the growth recipes, and to give real-time information to the grower.

Feedback

Precision Control & Analytics
Growth factors such as temperature, humidity, and EC levels are ready to view in real-time.

Customized Alerts
If a particular parameter is out of range, Guardian will automatically alert you to the problem and send you a warning text or email. You can then pinpoint the problem via the included Site Map.

Peace of Mind
Grow with confidence thanks to built-in alert systems and fail-safes in the Ætrium System.

3. Post Harvest

Datalogging
Sensor data, mechanical actions, & irrigation results are all stored for cultivator knowledge capture & proprietary learning.

Improve Recipes
After each grow, you can choose to optimize your strains by changing different growth parameters in the growth recipe. Guardian automatically adjusts these changes and runs the growth plan.

Regrow Fast
Thanks to easy clean up and fast turn around time, you can deploy exactly the same grow recipe to any room and you're immediately back in production.

Controls Entire Ætrium System

Guardian Grow Manager controls and networks the entire Ætrium System line. Cultivators can set their growth schedules to coincide with each machine, allowing rooted clones be ready for vegging immediately after harvest.
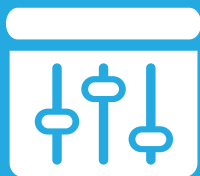
Ætrium-2

Ætrium-4

Ætrium-2.1

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Guardian™ Grow Manager Provides
Total Control

These are just a few examples of the many growing control points that Guardian logs:

- Photoperiod
- Nutrient Concentration
- Nutrient Dosing Ratio
- Fertigation Period Day
- Fertigation Period Night
- pH
- Hydrogen Peroxide (H_2O_2) Dosing
- Air Temperature Day
- Air Temperature Night
- Humidity Day
- Humidity Night
- Carbon Dioxide (CO_2) Concentration
- Air Movement
- Light Intensity
- Water Temperature
- Pump Pressure
- Reservoir Water Level

Easy Replication

All of these control points are saved in a grow plan, allowing cultivators to replicate the perfect growth conditions every time.

Only From

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