

FULL TECH VALUE CHAIN

For Agricultural Production Automation



#AI&Robot
#Autonomous Greenhouses powered by Robots
#Remote Operation
#Productivity Improvement



HERMAI

COCO KING

COCO KING

HERMAI

FULL TECH VALUE CHAIN

being built by ioCrops

A company leading the automation of agricultural production with AI technology, ioCrops.
As innovative technologists, we develop AI solutions necessary for agricultural production.
As brave growers, we operate greenhouses across the country using our own technology.

Through a virtuous cycle of technology development and greenhouse operation,
ioCrops is approaching autonomous greenhouses powered by robots.

From the automation of data collection and analysis in greenhouses to AI-based cultivation,
automation of labor, task, and management, and the automation of farming operations such as
monitoring, pest control, transportation, and harvesting with robots, ioCrops' Full Tech Value Chain is
a roadmap toward autonomous greenhouses powered by robots.

Look forward to the global agricultural production system standard that we will set.

2018

Established
Launched IoT Sensors

2019

Launched ioFarm

2020

Ranked 3rd in the world competition
: Autonomous Greenhouse Challenge (AGC) in the Netherlands

2021

Started greenhouse operations
Granted Public-Private Partnership Project
with Wageningen University
\$1.4M in Pre-Series A Funding

2022

Selected as Top 100 AI Startup in Korea
\$5.5M in Series A Funding

2023

Launched HERMAI Scout Robot
Selected as Top 100 AI Startup in Korea for the Second Consecutive Year

2024

Launched Ation
Launched HERMAI Spray Robot & HERMAI Transport Robot

FULL TECH VALUE CHAIN

For Agricultural Production Automation

HERMAI

AI-Driven
Greenhouse Robots

#Robot #AI #AMR

ioFarm

Data Analysis &
Operational Solution

#AI #Data #Operation

* Multipurpose robot for
Scout/Spray/Transport/Harvest

Ation

Data-Driven
Labor Management Solution

#Performance #Labor #Yield

ioCrops Sensor

IoT Sensor and
Data Monitoring Solution

#Sensor #Data #Monitoring

>> **Autonomous Greenhouses**
powered by Robots

HERMAI

AI-Driven Greenhouse Robots

HERMAI utilizes AI technologies such as autonomous driving, deep learning, and computer vision to automate agricultural tasks in greenhouses. Operating 24/7, it addresses labor issues and significantly enhances the efficiency of farm work. The robot is multipurpose and can perform scouting, spraying, transporting, and harvesting tasks with interchangeable upper modules.

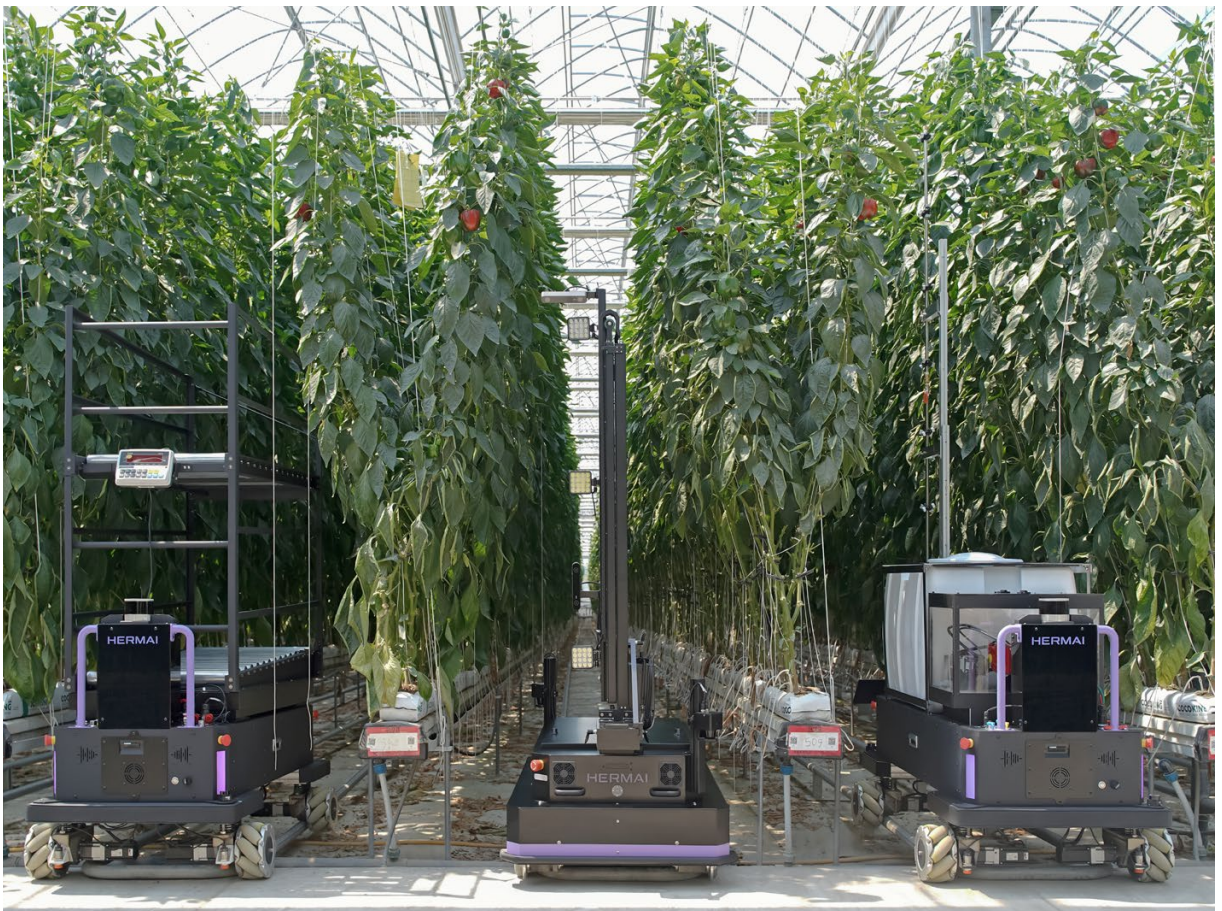
HERMAI Scout Robot

HERMAI Spray Robot

HERMAI Transport Robot

HERMAI Harvest Robot

*Coming early 2025



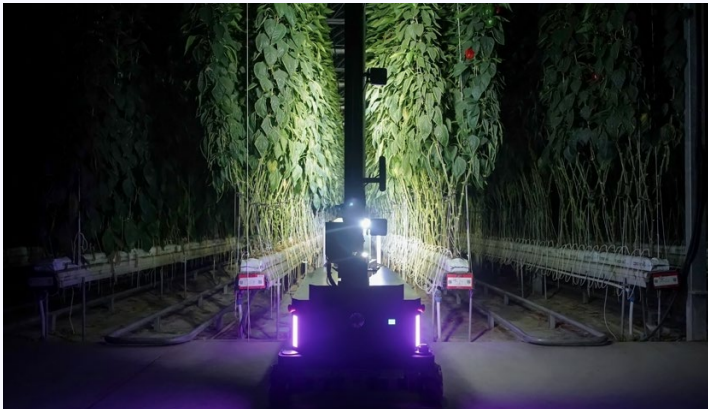
Watch the robot in action



HERMAI is ioCrops' AI-driven agricultural robot brand for monitoring, pest control, harvesting, and transport.

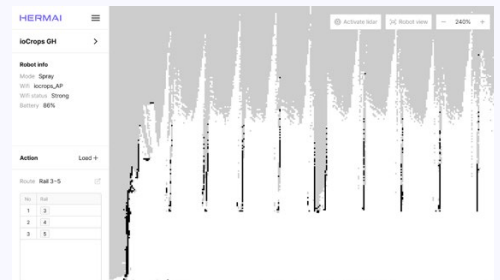
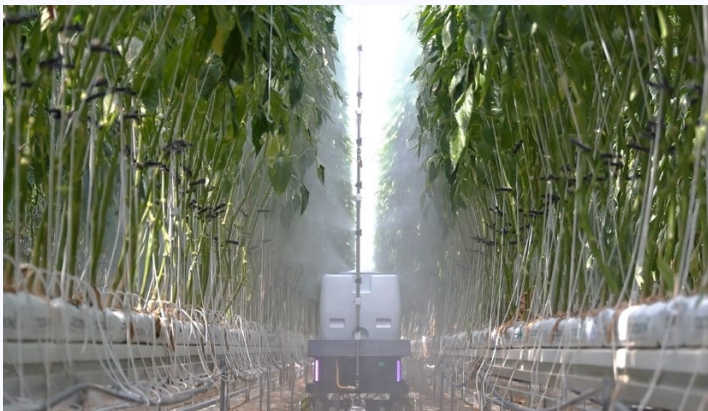
HERMAI Scout Robot

Monitors crop growth with vision AI, predicts yields based on data, and provides optimal cultivation strategies.



HERMAI Spray Robot

Performs pest control without human intervention, reducing time and labor compared to manual spraying, and supports pest management.



HERMAI Transport Robot

Moves to the worker's location to transport harvested crops, measures yield data by worker/line, and improves harvest efficiency.

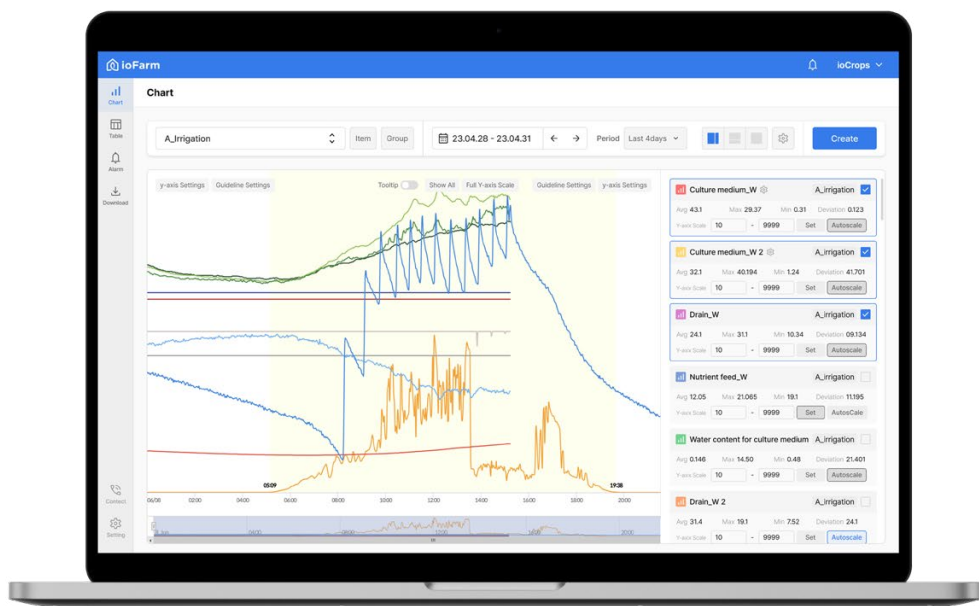


Data Analysis and Operational Solution

ioFarm integrates and analyzes automatically collected data from robots, climate control systems, sensors, and more. It provides insights through key metrics and visualized charts, supporting decision-making. It connects all necessary solutions for the entire production process.

ioFarm assists growers in addressing various issues encountered during greenhouse operations.

* Features may vary by service.

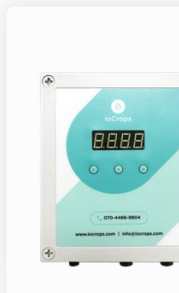
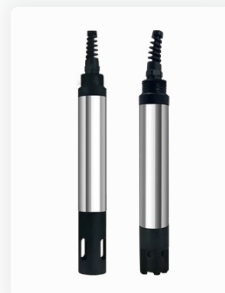


ioCrops Sensor

IoT Sensor and Data Monitoring Solution

IoT sensors measure farm data and help develop optimal irrigation strategies.

Data collected by these sensors is displayed on ioFarm. You can access this data anytime and anywhere via a smartphone or PC and integrate it with climate control system data for comprehensive analysis. By setting desired values, ranges, and alert times for each sensor measurement, you can monitor and respond to anomalies in real time.

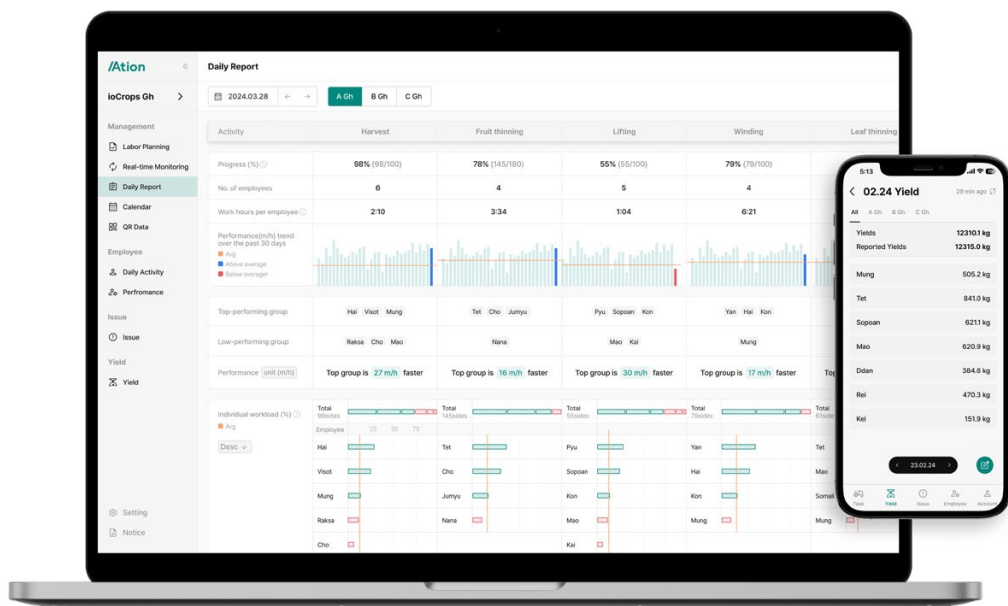




Data-Driven Labor Management Solution

Ation enables you to easily record tasks, locations, times, and more by scanning QR codes, allowing you to track work progress effectively. It supports rational assessment of task performance based on objective metrics and leverages technology to promote the growth of both farms and individuals.

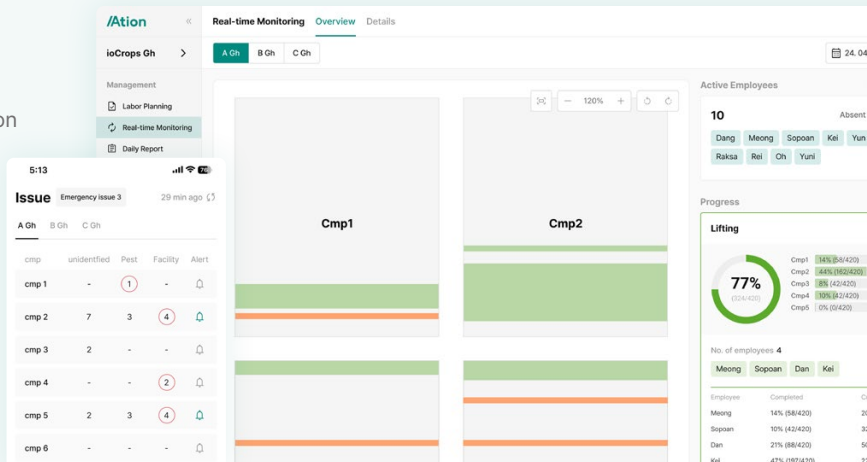
Request
a demo



- Digital Management of Agricultural Tasks and Labor
- Complete Greenhouse Overview
- Real-Time Task Monitoring and Planning
- Early Detection of Pest and Facility Issues
- Performance Tracking and Worker Evaluation

"Work efficiency has improved by 5-10%. During the same period, the work area covered by workers increased by about 10% compared to before. Ation made this possible..."

- Korea's high-tech greenhouse, ParmFarm



Contact Your Sales Manager | support@iocrops.com



ioCrops is leading
the automation of agricultural production
through AI technology.





#Operating 7ha of greenhouses

We operate 7 hectares of greenhouses in South Korea, where we cultivate bell peppers and tomatoes. The reason we grow by operating these greenhouses with our own technology is to create the most definitive success story of agricultural production automation through AI technology.

#Autonomous Greenhouses powered by Robots

Our vision is 'Autonomous Greenhouses powered by Robots'. To this end, we have systematized the entire process by experiencing, analyzing, defining, and categorizing every element of agricultural production. The birth of HERMAI, ioFarm, and Ation is part of this journey.


#Scalability #Productivity

We've established a system that allows us to expand our farms while minimizing the need for highly skilled cultivation experts. As a result, we were able to expand our farms from 1 hectare to 7 hectares in a short period. This expansion led to a 15% increase in production and a 20% improvement in quality.

Leading the automation of agricultural production with AI technology,
Full Tech Value Chain Company

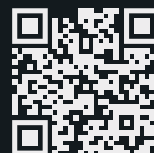
Transform agriculture with ioCrops.



HERMAI  ioFarm /Ation ioCrops Sensor

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Website



Contact

