



Honoring Tradition *cultivating* Innovation

Ohia Technology's Path to Sustainable Farming Solutions in Hawaii

In the intersection of technology and farming lies the transformative power to honor indigenous agricultural systems and cultivate a profound connection to the land, as embodied by the Hawaiian concept of aloha 'āina—where "love of the land" signifies the reciprocal relationship between humanity and the earth.



Empowering Taro Farmers with Soil Monitoring Technology

Our CO₂ and pH sensor set provides taro farmers with essential tools to optimize their farming practices and ensure the health and productivity of their taro crops. By monitoring soil respiration and microbial activity, the CO₂ sensor offers insights into nutrient cycling and organic matter decomposition, guiding decisions on fertilizer application and composting. Simultaneously, the pH sensor helps maintain optimal soil conditions for taro growth by monitoring acidity or alkalinity, promoting a favorable microbial environment. With these advanced sensors, taro farmers can make data-driven decisions, improving taro crop productivity and sustainability for future generations.

People Making Technology Work.



NEXT-GENERATION SENSOR SOLUTIONS FOR SMARTER INSIGHTS

Introducing Ohia Technology, your premier choice for farming technology needs in Hawaii.

We are deeply rooted in the rich heritage of traditional Hawaiian agriculture, which encompasses irrigated pond fields (lo'i), dryland farming, and rainfed agroforestry systems. Our cutting-edge sensor solutions, powered by LoRaWAN technology, offer long-range wireless data transmission for efficient and reliable communication. By choosing Ohia Technology, you not only gain access to advanced sensors, but also embrace the spirit of indigenous agricultural systems, enabling you to enhance productivity while honoring the traditional farming methods that have shaped Hawaii's agricultural legacy.

Experience the transformative power of agriculture technology (ag tech) and join Ohia Technology on a journey to cultivate sustainable growth and preserve the cultural heritage of Hawaiian farming practices.

CONTACT US

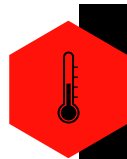
Ohia Technology

2855 E. Manoa Road, 105-157
Honolulu, Hawaii 96822

Tel: 808-954-5555

Web: ohiatechnology.com

Email: info@ohiatechnology.com



CO₂, TEMPERATURE & HUMIDITY SENSOR

- Measures carbon dioxide (CO₂) levels, temperature, and humidity.
- Enables continuous monitoring of CO₂ concentration in the farm environment.
- Provides insights into temperature and humidity variations, crucial for crop growth and livestock health.



PH SENSOR

- Designed for measuring pH levels in soil or liquid.
- Enables accurate monitoring of soil acidity or alkalinity.
- Facilitates optimal nutrient absorption by crops and helps maintain proper pH levels for desired crop growth.



SOIL MOISTURE, TEMPERATURE, AND EC SENSOR

- Measures soil moisture, temperature, and EC.
- Offers real-time soil moisture data for precise irrigation management.
- Monitors soil temperature to assess optimal planting conditions and identify potential issues.
- Measures EC to gauge soil fertility and salinity levels.



WEATHER SENSOR

- Offers comprehensive weather monitoring capabilities.
- Measures eight parameters: temperature, humidity, barometric pressure, wind speed, wind direction, rainfall, UV intensity, and light intensity.
- Provides valuable data for optimizing crop management, irrigation scheduling, and protecting livestock.



NETWORK GATEWAY

- Central hub for LoRaWAN sensor data collection
- Supports US902-928MHz frequency band for communication
- Seamless integration and transmission to farm's data management system or cloud platform
- Centralized monitoring and analysis of multiple sensor readings



LORA-FIBERGLASS-ANTENNA-KIT

- Central hub for LoRaWAN sensor data collection
- Supports US902-928MHz frequency band for communication
- Streamlines integration and transmission of sensor data to farm's system/cloud
- Enables centralized monitoring and analysis of multiple sensor readings



DRONES & NDVI (NORMALIZED DIFFERENCE VEGETATION INDEX)

- Drones with multispectral cameras and NDVI analysis assess crop nitrogen health.
- High-resolution images capture crop data, calculating NDVI values for chlorophyll and vigor assessment.
- Drones offer cost-effective and efficient large-scale assessment for timely nitrogen management in farming.