- Solar powered devices.
- Automated feeding system.
- Faster Growth.
- Reduction of farmers effort in feed monitoring.
- Feed performance data for feed companies.
- Real time availability of the crop and there bremoving middle man.
- Plug and Play model for installation.
- Remote monitoring the health of the on-farm equipment to diagnose issues.
- Unified business loss or profit indicator.
- Record of all the payments made and receivable.

- Keep a track of feed consumption, quantity of animals bought/cost, electricity consumption, labour charges, and vaccination data for costing and traceability.
- A system that learns. Real time sensor data studies to identify patterns and enhance the aquaculture models.
- Firmware updates over air.
- Configuration via Mobile App/On Device.
- Scalable Cloud Platform.
- LoRa wireless protocol for reliable wide range coverage.
- Data back up at farm in case of communication failures.
- On device LCD display.

AQUASENSE
Towards a Sustainable Aquaculture

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AQUASENSE
Towards a Sustainable Aquaculture

An integrated IoT solution for Open pond aquaculture, RAS, Hatcheries and Large Aquariums.

ISYX Keleno Channel Partner

Sense **Analyze** **Predict** **Inform**

Lost Production
10-15%
of aquaculture productioncost is lost due to diseases.
Water quality monitoring will reduce the casualities by 30-40%.
The highest mortality rate in aquaculture is due to the poor water quality management.
Monitoring water quality is essential to meet international regulations to assure fish quality and farming conditions.

Feed Savings
20-25%
Feed constitute 60% of the production cost.
We use Artificial Intelligence (AI) algorithms to precisely dispense the feed based on demand and water quality parameters.
FCR is reduced to ~1.2 from ~ 1.6/1.7

Energy Savings
30-35%
We reduce aerators runtime to an average of 11 hrs. from 18.24 hrs. per day
Farmers run aerators blindly 24 hrs as they are not aware of the DO level variations.

The return on investment (ROI) includes:

- Reduction of production costs
- Reduction of casualties
- Time savings
- Increase in productivity

UNIQUENESS

Full Spectrum Sensors: The only multi-parameter water quality sensor designed specifically for generating the best yields in fish farming.

No Calibration Required: Plug it in and use. Optical sensors do all the work for you, no need for costly and time-consuming calibrations. Save money and time.

Cost Effective: Built for farmers in mind, we designed a proprietary solution to bring your farm online and generate a fast ROI.

Automate water quality monitoring and feeding with cloud-connected proprietary sensors built specifically for extensive and intensive ponds.

Get real-time alerts & notifications, analytics & insights, and organizational management tools with advanced machine learning and big data.
A cloud-based monitoring platform for commercial aquaculture.

KELENO

FEATURES

01 Single pane 360 views of multiple assets for the owner

Flexibly manage farms of all sizes with customizable data access levels. Track & Manage multiple ponds and multiple locations from a single tooldata remotely to ensure the best output.

02 Automated scheduled reports & analytics

Uncover new best practices with 100x more data. Production metric analytics, streamline system consolidation, throughput predictions, and predictive maintenance.

03 Native mobile apps

Farmers monitor their pond data from smart-phone, enabling the farmer to access data remotely to ensure the best output.

04 Roles and user groups for security

Simple user hierarchy. Enterprise-grade encryption and data security

05 Historical data on feed, and environment

Adjust the feed based on water quality data to generate more predictable growth rates and yields. Reduces FCR by 30%. By reducing feed conversion ratios by over 30 %, profit margins will only go upwards.

06 Alarm classification

Get SMS & email alerts the moment something goes wrong. When water quality drops, real-time voice alerts are also sent to the farmer's mobile, reduces the risk of shrimp mortality and increasing the quality of the produce.

07 Auto Feed adjustment

Notifications to adjust the feed based on water quality data on a regular basis for better FCR (Feed Conversion Ratio).

08 Individual asset operator view

Asset health diagnostics: monitor relevant KPIs for any equipment or the pond

09 Easy to implement

Get your whole farm online and operating remotely in the cloud in minutes

10 Cost-effective

Competitive set up cost and subscription charges. Use data to make the best decisions for bottom line and ROI.

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