

HYDROAI

HydroAI combines high resolution video cameras with AI-powered, cloud-based software to provide accurate real-time fish counts and species identification in and around hydro-power plants. Unlike manual counting, HydroAI adds certainty to mitigation and reporting and provides more data with less time and labor. The resulting data is shareable and transparent to meet regulatory demands.

HydroAI cameras integrate easily with existing fish passage infrastructure to monitor fish activity upstream and downstream, enabling dam operators to make better operational decisions to maximize power generation while ensuring regulatory compliance.



USE CASES

- Operations applying for (re)licensing or facing frequent regulatory pressure
- Industrial locations that may impact protected species or habitats
- Systems with fish ladders, dam bypass and other fish passage infrastructure
- Tidal and wind operations in remote locations or harsh conditions
- Fish tracking researchers who want to discover how fish interact with power operations

BENEFITS

Improves the quality and quantity of fish monitoring data at hydro dams

Enhances mitigation efforts using real-time data

Ensures regulatory compliance and expedites the licensing process

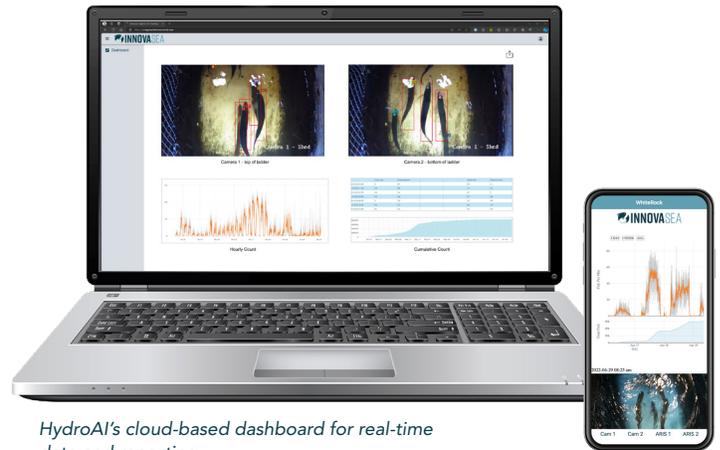
Saves time by eliminating the need to manually count fish or review video footage

Increases power generation by improving transparency for regulators

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KEY COMPONENTS

- **Cloud-based software:** proprietary algorithm counts and identifies fish and delivers data to reporting platform
- **High-resolution camera:** captures 24/7 footage of migrating fish
- **Custom camera insert:** houses camera and integrates with a variety of fish passage infrastructure
- **Edge box:** installed onsite to feed processed camera data to the cloud



HydroAI's cloud-based dashboard for real-time data and reporting.

PAIR WITH

- Innovasea's acoustic telemetry solutions for fine-scale positioning and more fish tracking insights
- Innovasea's aquaMeasure sensors to understand how environmental conditions impact fish behavior
- ARIS sonar cameras to capture longer range fish movement and directionality



FURTHER INFORMATION

Visit us today at www.innovasea.com



About Innovasea

Innovasea designs the world's most technologically advanced aquatic solutions for fish tracking and fish farming – and builds them to withstand the toughest conditions. We partner with customers to fully understand their needs and solve their most pressing challenges. It's all driven by a commitment to make our ocean and freshwater ecosystems sustainable for future generations. **Today. Tomorrow. For life.**