



The Hydro-Optic™ Value for Continuous AIS Control Based on the Sum of Three Sciences

Atlantium’s revolutionary and patented Hydro-Optic™ ultraviolet (UV) water disinfection/treatment technology maximizes dose delivery efficiency using less energy than other UV systems, and has a smaller footprint. It delivers a real, not average, dose 100% of the time for proven bio fouling control.

Thanks to advanced engineering based on fiber optics and hydraulics, the Atlantium Hydro-Optic system has achieved validations and acceptance unmatched by any other commercially available UV technology. Continuous bio fouling control

Lamps: Atlantium Hydro-Optic systems use a proprietary medium pressure high intensity polychromatic lamp; providing 2x more UV energy than other medium pressure lamps, and 16x more than low pressure lamps. Extraordinary germicidal protection is the result.

Internal Reflection: Atlantium Hydro-Optic systems use a patented internal reflection technology, similar to fiber-optics, with the ability to effectively “recycle” any required UV dose throughout the reaction chamber and back into the water. Internal reflection essentially attacks a microorganism from all directions.

Dose Pace: Atlantium Hydro-Optic systems have the ability to dose pace every lamp. Proprietary software logic, sensors & controls enable automatic dose adjustment according to real-time changing water quality to ensure protection. The required dose to meet any application needs is maintained at all times through this reliable approach. The efficient use of UV energy achieved through the proprietary Atlantium dose pace controls enables lower energy consumption and longer lasting lamps.

FEATURE	BENEFIT
Ease of Use	Simple to operate system offering automation in compact, easy steps.
Aesthetic, low profile and small footprint	Easy to install into new or existing facilities.
Pre-engineered modular design	Easily upgraded to meet new application specific microorganism control requirements while handling varying flow requirements. Flexible to meet future regulations.
Reliability, robustness and redundancy	Offers continuous 24/7/365 treatment with a logic and control system that provides advance warning of deleterious conditions.
Safety	Non-hazardous treatment approach without the risk of disinfection by-product formation that is safe for facility staff. NPDES permits not required for use, no disposal or waste management recovery requirements.
Pre/Post treatment requirements	Little to none, easily combined with other technologies
Proven and tested	Accepted technology with validations and approvals unmatched by other systems. A proven and reliable system.

BEST VALUE IN CAPEX, OPEX AND RISK MITIGATION*

- Half the capital and energy requirements of competitive UV systems; savings over non UV treatment approach
- Mitigates risk and associated costs through a non-chemical, safe, flexible and proven proprietary UV approach

* Dependent on water quality and operational conditions of application

Visit our exhibit booth to receive a copy of RNT Consulting’s full-scale demonstration final report of Atlantium’s Hydro-Optic System at the Davis Hydroelectric Dam