

## INTRODUCING GEN 2

The Quattro-DB® and Mezzo-DB® are state of the art, algae and biofilm management systems employing patented, advanced ultrasonic technology. Working in harmony with the surrounding environment, our systems disable algal growth cycles, resulting in rapid eradication.

### BENEFITS

Reduced Biofouling | Reduced Turbidity  
Reduced THMs | Reduced HAAs & HABs  
Reduced pH | Reduced Chlorine Usage  
Increased Filter Life | Improved Water Taste  
Reduced Water Odors



**COST EFFECTIVE  
OPERATION**



**CLEANER,  
SAFER WATER**



**EASY INSTALL**



**FAST RESULTS**

### APPLICATIONS

- Lakes, Reservoirs, Marinas & Docks
- Wastewater Treatment Facilities
- Irrigation Basins
- Clarifiers and Sedimentation Basins
- UV Chambers
- Distribution Water Tanks
- Ponds, Pools, Fountains and Aquariums
- Aquaculture and Agriculture
- *Endless possibilities*



## ABOUT PHOTON WATER

Photon Water is an operating division of the Photon Energy Group, a European listed, global organization specializing in the creation and provision of clean and affordable energy and water. Photon Water delivers intelligent, real-time water quality monitoring and algae control solutions aligned with HBS technology for applications in lakes, dams, and water bodies. We also provide water and wastewater treatment, hazardous liquid waste management, in-situ groundwater, soil, and surface water remediation solutions.



**HBS IN HOUSE  
MANUFACTURING**



**MULTIPLE  
CARRIER OPTIONS**



**TIMELY,  
ECONOMICAL DELIVERY**



**Photon Water**

photonwater.com  
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**Photon Water**

**QUATTRO-DB®  
MEZZO-DB®**

*Manufactured by Hydro Bioscience*



**Ultrasonic Algae,  
Biofilm and Biofouling  
Prevention Systems**

EPA Registered | Worldwide Patent  
Safe for People and Pets

## SONIC HEAD TRANSDUCERS

New uni-body design, IP68 enclosures | Ultra slick polymer construction reduces bio-fouling on exterior | Multiple bio-fouling options include coatings and UV modules, patent pending | Interior cavity is completely potted for a watertight seal



### MEZZO-DB®

Mezzo-DB® operates in a bidirectional pattern for narrow channeled applications.

Included in your Algae Management System:

- Power Supply
- Warning | Position Flag
- High Visibility Buoy\*
- 316 Stainless Steel Chains
- 2 Meter Cable | Custom options available up to several hundred meters



\*Several buoy options available, including harsh environment and low visibility

### QUATTRO-DB®

Quattro-DB® emits thousands of ultrasonic frequencies in a 360°, linear, and line of sight pattern, managing:

- Up to 120 acres for Blue-Green Algae
- Up to 17.5 acres for Green Algae
- Up to 2.8 acres for Biofilm & Diatoms



**POSITIVE RESULTS  
IN AS LITTLE AS  
14 DAYS!**



MyQuattro™ Available on Android  
COMING SOON for iOS

## POWER OPTIONS

Our ultrasonic transducers operate on safe, low current, power supplies. Remote monitoring is available for real time tracking!



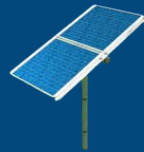
### SOLAR CONTROLLER

- Connects to our land or raft based solar panels
- Correctly manages battery charging and powers 2 or more sonic heads
- Wireless and Serial communications are built in.

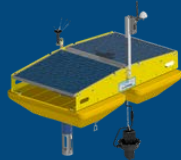
### UNIVERSAL POWER SUPPLY 85-264 VAC

- For land based power, international applications
- Wireless and Serial communications are built in
- Unit can power 2 separate sonic heads
- Connected to AC Power supply \*

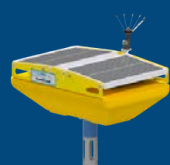
\*Wide variety of AC plugs available for ALL international applications



SunSonix™ Land Based Solar



SolaRaft-iQDB™



SolaRaft-iQM™



### 24 VOLT AC\DC POWER SUPPLY

- Specifically designed for applications where 24V is supplied for pre-existing fountains, etc.
- Commonly used on golf courses
- Wireless and Serial communications are built in
- Can power 2 separate sonic heads
- Hardwired to your existing 24 VAC/DC power supply



With the SolaRaft-iQM™ or iQDB™, our state of the art, intelligent water quality monitoring systems, the Quattro-DB® & Mezzo-DB® algae management systems provide a complete set of tools to positively affect water quality problems before they blossom into larger environmental health related issues.

Partial list of algae species affected by our patented systems: Aphanizomenon, Cyclotella, Pseudonabaena, Anabaena, Dictyosphaerium, Phacus, Aphanochaete, Fragilaria, Pinnularia, Arcella, Gloeocystis, Planktothrix, Gomphonema, Chlamydomonas, Lagerheimia, Chlorella, Lyngbya, Chroococcus, Microactinium, Spirogyra, Coelastrum, Staurastrum, Microcystis, Cosmarium, Tabellaria, Crucigenia, Nitzschia, Tribonema, Ulothrix, Botryococcus braunii, Rhodomonas minuta, Tetrademus acuminatus, Scenedesmus quadricauda, Merismopedia tenuissima, Sphaerocystis schroeteri, Chloromonas reticulata, Navicula minima, Cryptomonas erosa, and Oocystis pusilla



HBS products, such as the algae management & monitoring systems, are patent pending or patented in various countries worldwide. All products advertised, excluding solar panels are PROPRIETARY HBS, LLC PRODUCTS.