

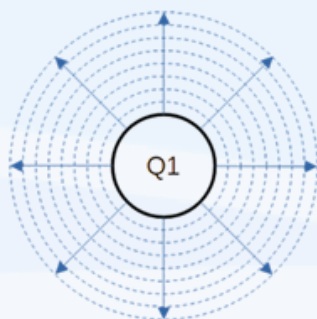
ARCS™ Resonance Technology

Algae Remediation Critical Structural (ARCS™)
Resonance is a patent pending technology
embedded inside all HBS Ultrasonic Transducers!

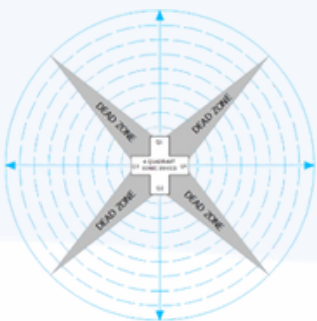
HBS Technology is much greater than the
production of ultrasonic frequencies. It organizes
frequencies, bandwidths, power and versatility into
an effective Algae, Biofilm, and Harmful Algae
Bloom (HABs) Remediation Tool.

PATENT-PENDING TECHNOLOGY ADVANTAGE – NO DEAD ZONES

Only HBS' Quattro-DB® products produce
ultrasonic emissions in a 360 degree or
hemispherical direction with NO DEAD
ZONES or WEAKENED emissions!



**Quattro-DB® 360™ and
Quattro-DB® globe™**
produce sound waves
with NO dead zones or
weak signal areas



**4-Quadrant Competing
Technology** produces
sound waves with dead
zones and weak signal
areas



Connect with HBS:



HBS'S PATENTED TECHNOLOGY OFFERS WHAT NO OTHER COMPETITOR OR COMPETING PRODUCT CAN:

- The greatest number of ultrasonic frequencies within the industry
- 10's of thousands of discrete frequencies
- Thousands of organized bandwidths
- Highest sound pressure output per watt used
- Greatest area coverage while using the lowest power consumption needed
- Lightest weight – lowest shipping cost
- Easiest deployment –no hand tools needed
- No Ultrasonic Emission Dead Zones
- **Lowest Product Cost**

APPLICATIONS

Water Treatment Facilities
Wastewater Treatment Facilities
Lakes, Reservoirs, Marinas, & Docks
Lagoons & Irrigation Ponds
Clarifiers and Sedimentation Basins
Water Tanks, Cisterns, Fountains
Aquaculture and Agriculture
...Endless possibilities

ABOUT US

Since 2016, Hydro BioScience, LLC (HBS) & Diversified Power International, LLC (DPI) pioneered algae and biofilm remediation through worldwide patented technology and innovation. We are the inventors of the 360-degree ultrasonic algae remediation technology shown to be effective in thousands of worldwide installations.

Our Mission: As environmental stewards with regard for public safety, HBS strives to lower the chemical footprint. Through continued scientific research and product innovation, HBS commits to providing you, our valued customer, with ever improving functionality, quality, and affordability.



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Quattro-DB® Product Line



**Classic
Quattro-DB®**



**New 2025
Quattro-DB® 360™**



**New 2025
Quattro-DB® Globe™**

Ultrasonic Algae & Biofilm Remediation Products

*Reduced Biofouling, Turbidity, THMs, HAAs & HABs,
Chlorine Usage, and Water Odors while Increasing
Filter Life and Improving the Taste of Water.*

EPA Est. No. 95328-TN-1
Worldwide Patent

SONIC HEAD TRANSDUCERS

Ultra slick polymer construction reduces surface biofouling | Anti biofouling coating available | Watertight IP-68 Rated Enclosure and Connectors.

Classic Quattro-DB®

Dimensions:

156 x 251mm, 6.13 x 9.90in

Weight, kg, lbs:

3.15kg, 7lbs

Input Power:

32Vdc to 48Vdc, 15W

Frequency Range:

20kHz to 250kHz



New 2025 Quattro-DB® 360™

Dimensions:

99 x 155mm, 3.90 x 6.12in

Weight, kg, lbs:

1.45kg, 3.2lbs

Input Power:

26Vdc to 60Vdc, 14W

Frequency Range:

20kHz to 250kHz



New 2025 Quattro-DB® Globe™

Dimensions:

99 x 155mm, 3.90 x 6.12in

Weight, kg, lbs:

1.45kg, 3.2lbs

Input Power:

26Vdc to 60Vdc, 14W

Frequency Range:

20kHz to 250kHz



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

MyQuattro™ Available
on Android and IOS



Quattro-DB 360™, Quattro-DB Globe™
Materials Quality Statement: Traceable to
NSF61 and REACH/RoHS compliant.



*Several float options available, including
harsh environment and low visibility

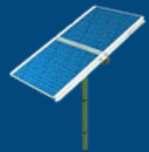
POWER OPTIONS

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

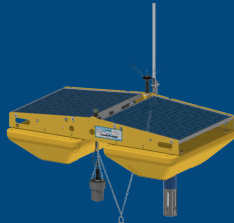


SOLAR CONTROLLER

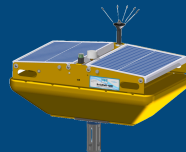
- Connects to land or raftbased solar panels
- Correctly manages battery charging while powering up to 2 ultrasonic heads, simultaneously
- Standard BLE Wireless, Serial Communications



SunSonix™
Land Based Solar



SolaRaft-iQDB™



SolaRaft-iQM™

**USES
MINIMAL
POWER
AVG 14 WATTS**

UNIVERSAL POWER SUPPLY 85-264VAC

- For land based power or international applications
- Standard BLE Wireless, Serial Communications
- Unit can power up to 2 sonic heads simultaneously
- Connect to AC Utility Power *

*Wide variety of AC plugs available for ANY international application



24 VOLT AC\DC POWER SUPPLY

- Specifically designed for applications where 24V is supplied for pre-existing fountains, etc.
- Commonly used on golf courses
- Standard BLE Wireless, Serial Communications
- Can power up to 2 sonic heads simultaneously
- Hardwire to an existing 24Vac/dc power system



With the SolaRaft-iQM™ or iQDB™, our state of the art, intelligent water quality monitoring systems, and the Quattro-DB® sonic heads, you can wield a powerful and interactive set of tools to treat and monitor water remotely from your personal computer with minimal maintenance.

Partial list of algae species potentially affected by our patented systems: Aphanizomenon, Cyclotella, Pseudanabaena, Anabaena, Dictyosphaerium, Phacus, Aphanochaete, Fragilaria, Pinnularia, Arcella, Gloeocystis, Planktothrix, Gomphonema, Chlamydomonas, Lagerheimia, Chlorella, Lyngbya, Chroococcus, Micractinium, 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.