



AQUATIC
TECHNOLOGIES

LG SONIC®

*Control algae in
Ponds with the...*



LG Sonic e-line

- Eliminate up to 90% of the algae
- Easy to install and maintain
- Safe for fish, plants and other aquatic life

Chemical-Free Algae Control Solution

A combination of high temperatures, stagnant water and nutrient overload can result in excessive algae growth. Causing a depletion of oxygen in the water, release of toxins and taste/odour problems.



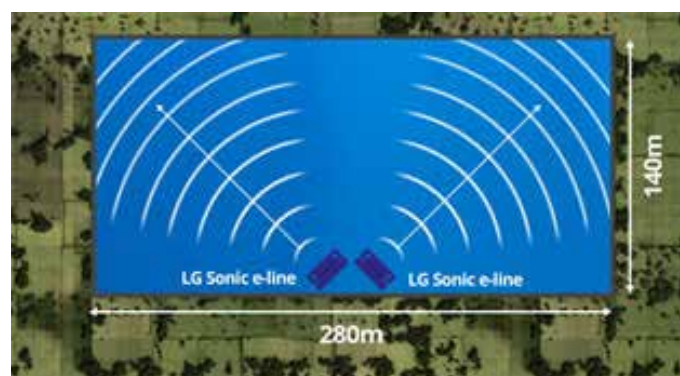
LG Sonic e-line

The LG Sonic e-line provides an environmentally friendly solution to control algae in ponds with the use of ultrasound technology.

The Advantages of our Technology

- Eliminate up to 90% of existing algae
- Prevent the growth of new algae
- Improve the water quality
- Safe for fish, plants and other aquatic life

The solution is to install one or multiple systems that transmit specific ultrasonic parameters depending on the type of algae.



Multiple LG Sonic e-line systems cover the complete water surface with ultrasound

Each LG Sonic e-line has an ultrasonic treatment range up to 200 meters (650 feet)

Control Algae in Ponds

The LG Sonic e-line is an advanced system that emits specific ultrasonic parameters in order to control algae in smaller water surfaces, such as ponds and golf course ponds.

Ponds



Control algae without harming the ecological balance in the pond

Golf Course Ponds



Eliminate algae and increase the aesthetic appearance of your golf course

Irrigation Ponds



Prevent the clogging of pumps, filters and sprinklers in irrigation ponds

Over 10,000 LG Sonic products have been successfully installed in a wide range of applications in 52 different countries.

MPC-Buoy for Larger Water Surfaces



Control and Monitor Algae

The MPC-Buoy is a floating, solar-powered system that combines real-time water quality monitoring and ultrasonic sound waves to effectively control algae in lakes and reservoirs.

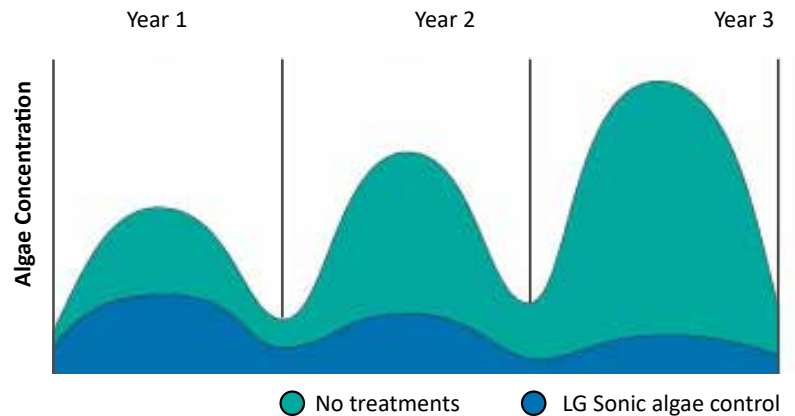
Ultrasonic Algae Control Treatment Process

A combination of high temperatures and nutrient overload can result in excessive algae growth, which can cause a foul odour to the water, a layer of scum on the surface and even pose a health risk.

Why it is Important to Control Algal Growth?

Algal blooms cause a reduced light penetration, depletion of oxygen, and release of toxins from the algae, which are unfavourable conditions for fish and plants. LG Sonic ultrasonic technology contributes to a healthy ecosystem by controlling the algae growth.

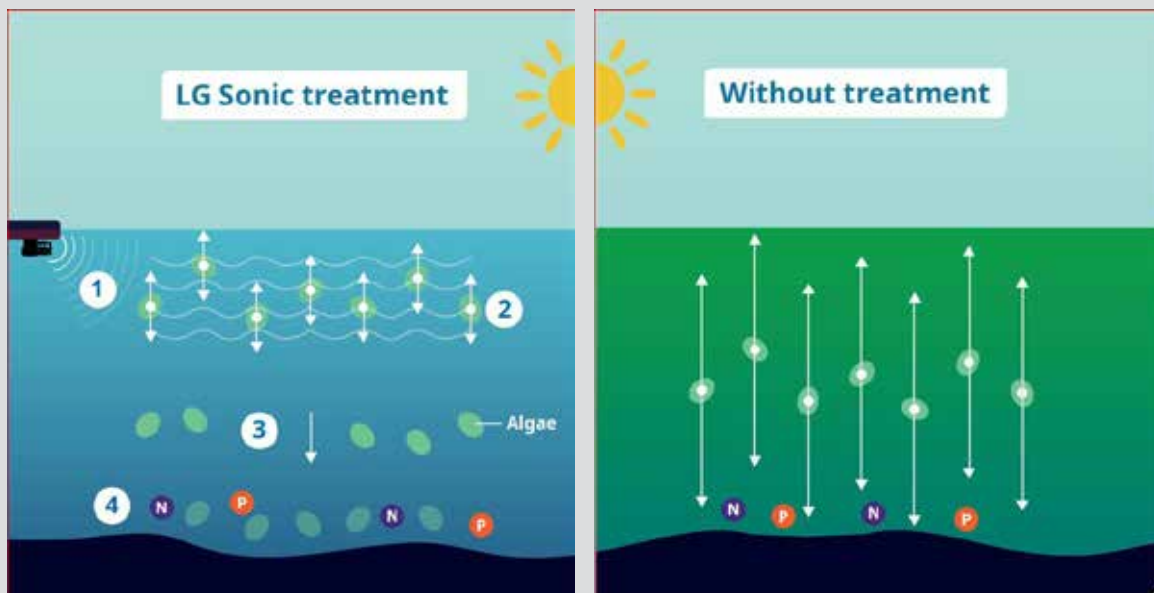
After one year of treatment, the algal levels will reduce even more as the increased clarity of the water will result in plant growth and increased oxygen levels.



Ultrasonic treatment of LG Sonic can reduce algal blooms by 70-90% in concentration, compared to no treatment

How Ultrasound Targets the Algae

1. The ultrasound creates a sound layer in the top layer of the water
2. Due to a lack of sunlight and nutrients, the algae will die and sink to the bottom of the reservoir.
3. The ultrasound affects the buoyancy of the algae, fixing them in the water column.
4. The algae are degraded by the bacteria present.

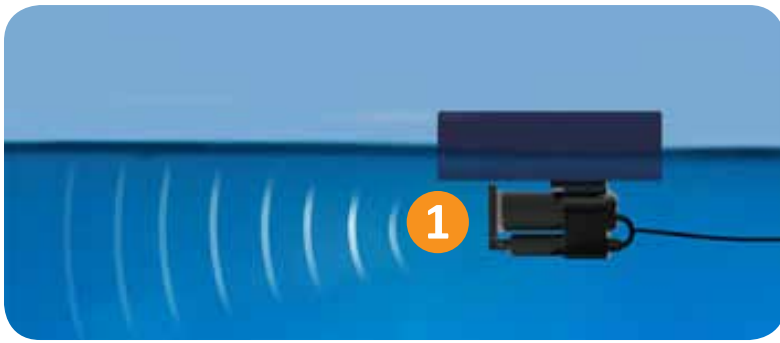


Chameleon Technology™ to Adapt the Ultrasonic Treatment to the Type of Algae

Chameleon Technology™ makes it possible to change the ultrasonic program according to the water conditions, type of algae, and type of application, thereby providing the most effective solution for each specific situation.

- ➔ More efficient algae control
- ➔ Shorter treatment time
- ➔ Prevent the occurrence of resistant algae

LG Sonic e-line Features



Installation of the ultrasonic transmitter in the water



Control box to select treatment program

1 Ultrasonic transmitter for effective algae control

Treatment range up to 200m/650ft per device

Integrated Aquawiper™, an automatic cleansing system for the ultrasonic transmitters

Chameleon Technology™, adjusts the ultrasonic program to the specific water conditions

2 Weatherproof control box

Weatherproof design to protect against outdoor conditions

LCD display with control buttons to select 12 different ultrasonic programs

It is possible to add multiple ultrasonic transmitters to one control box for the treatment of multiple

tanks or water surfaces with curves

3 Remote control monitoring to prevent frequent site visits

GSM/GPRS control allows the user to monitor and change the ultrasound program remotely

Receive status updates and alerts when power outages occur.

Optional

Installation bracket

Bracket to install LG Sonic e-line without a float. Easy removable for maintenance checks.

Check the ultrasonic transmitter with the e-line tester

Device to check whether your LG Sonic device is still working, sending the correct frequency program and if the ultrasound is being spread throughout your whole water body.

Onshore solar system for autonomous power supply

The LG Sonic e-line can work autonomous on solar energy. LG Sonic provides a complete solar system including a solar panel, batteries, and a charge regulator.

Easy installation with the flexi-arm

The flexi-arm can be adjusted to fit every application and can be extended up to 5 meters.


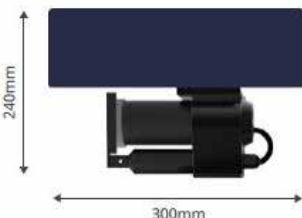
Technical Specifications

Ultrasonic transmitter	<ul style="list-style-type: none"> • Unique Chameleon Technology™ • 12 pre-installed ultrasonic programs • Max freq/program, 80 • Ultrasonic generator integrated in the ultrasonic transmitter • Transmitter cable, 20m/65ft (extension possible) • Float
Control box	<ul style="list-style-type: none"> • Choose between 1, 2 or 4 transmitter outputs to one control box • LCD display with control buttons • Remote control monitoring, GSM/GPRS • AC input voltage, 100-240V AC, 50/60hz • DC input voltage, 24V DC • Energy consumption, 5-40 Watt • Weatherproof design, Aluminium • Ingress protection, IP67
Aquawiper™	<ul style="list-style-type: none"> • IP67 underwater housing • 360° turning angle • Industrial-designed brush
Solar power system*	<ul style="list-style-type: none"> • 195 WP solar panel • 2x 12 Volt, 60Ah batteries • Solar regulator • Panel mounts or poles are optional
e-line tester™	<ul style="list-style-type: none"> • Check whether the LG Sonic device is working, sending the correct program and if the ultrasound is spread throughout the whole water body • Including adjustable receiver stick, 100 to 200 cm (3-6 ft)
Flexi-arm™	<ul style="list-style-type: none"> • 1 meter arm for easy installation • The flexi-arm can be extended up to 3 meters
Installation bracket™*	<ul style="list-style-type: none"> • Install ultrasonic transmitter without float • Easily remove ultrasonic transmitter for maintenance checks • Coated stainless steel • Length of 40 cm

* The solar powered system, e-line tester, flexi-arm and installation bracket are optional

Compare LG Sonic e-line Products

	XL	XXL
Treatment range in meter (feet)	< 120 (393)	< 200 (650)

<p>Control box</p>  <p>150mm 260mm</p>	<p>Ultrasonic transmitter</p>  <p>240mm 300mm</p>
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About Aquatic Technologies

Aquatic Technologies specialises in the identification and control of algae and aquatic weeds within Australia, New Zealand (Asia Pacific), Singapore, Malaysia, Indonesia and Vietnam.

Operating since 1998, Aquatic Technologies is a leading provider of algae control, aquatic harvesting, water testing and water quality services and advice to Government authorities, water treatment plant operators, mining companies, irrigators, nursery growers, lake management committees, local councils, pond cleaning companies, aquarium operators, water garden retailers, pet stores and chemical resellers.

We provide specialised services and products developed and manufactured in Australia and sourced internationally from the world's best suppliers to deliver world leading results in the control and management of algae and aquatic plants.

Aquatic Technologies distributes some of the world's leading brands in categories including:

Algae Control

LG Sound Ultra Sonic Algae Control Units (NL)
RCI Coptrol Aquatic Algaecide (AU)
Aquatic Blue Lake Dye (AU)
Hydrogel (AU)
Barley Straw Extract and Bales (AU)



Aquatic Plant Control

Inland Lake Harvester (USA)
Mobitrac Amphibious Harvesters (NL)
Aquatic Blue Lake Dye (AU)
Free Floating Aquatic Weed Control (AU)
Jenson Lake Mower (USA)



Fountains and Aerators

Aqua Control (USA)



Water Quality Products

Dam Stop Leak (AU)
Water Bac (AU)
Aquatic Blue Eco Lake Colorant (AU)
Phoslock (AU)

We have many clients who range from small private land holders to the commercial, industrial and agricultural sectors, through to large government bodies, all of which have relied on Aquatic Technologies to continually assist them with managing their waterway issues.



Aquatic Technologies provides services including, consultative services in aquatic plant and algae identification, water quality and total waterway management advice. Aquatic Technologies uses cutting edge technology and products to quickly and efficiently solve water related issues with any type of water body.

Aquatic Technologies

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