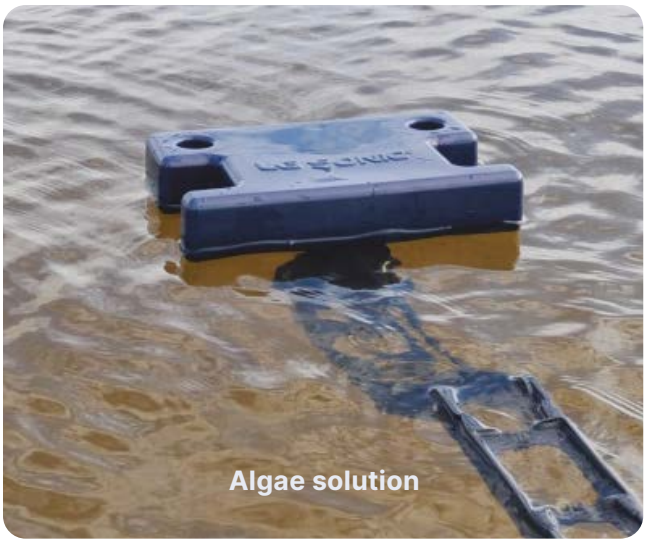
Control Algae in Ponds with the LG Sonic e-line

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

LGSONIC

Chemical-free algae control

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/odor problems.

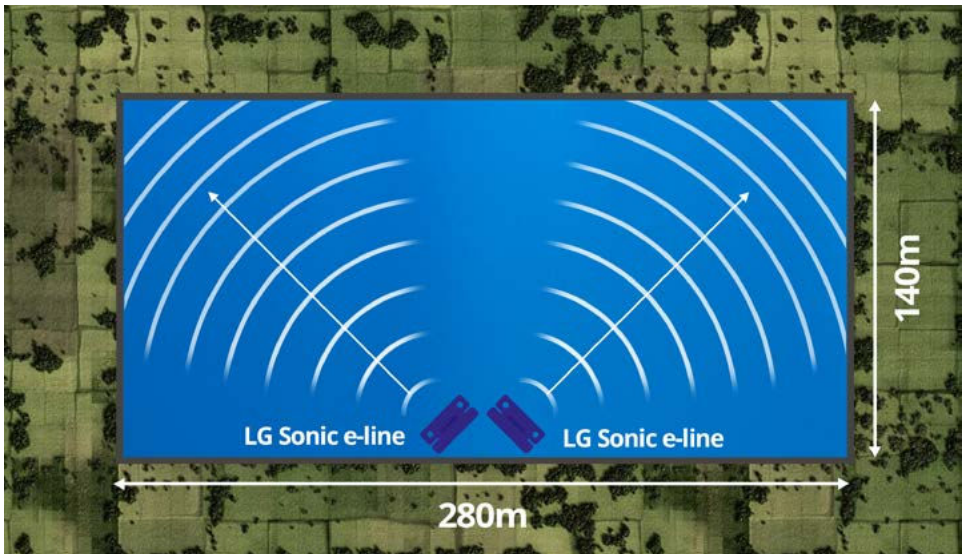


LG Sonic e-line

The LG Sonic e-line harnesses ultrasound technology to offer an eco-friendly method for managing algae in ponds. This system effectively targets and controls algae in smaller water bodies using precise ultrasonic frequencies. Its innovative design ensures both safety and efficiency in controlling algae growth.

Advantages

- Eliminate up to 90% of existing algae
- Prevent the growth of new algae
- Up to 200m / 650ft treatment range per unit
- Safe for fish, plants, and other aquatic life

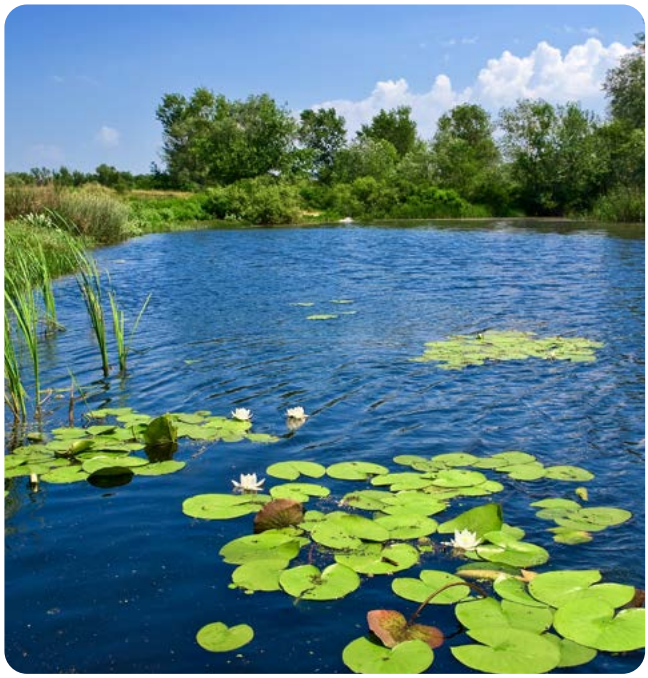


The solution is to install one or multiple systems that transmit specific ultrasonic parameters depending on the type of algae.

Control algae in ponds

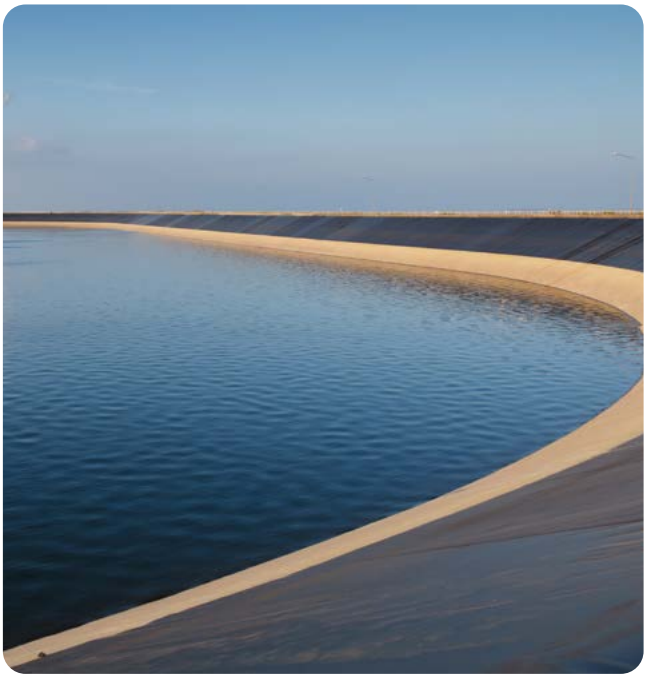
The LG Sonic e-line is an advanced system that emits specific ultrasonic parameters in order to control algae in smaller water surfaces such as ponds and golf course ponds.

Ponds



Control algae without harming the ecological balance in the pond.

Irrigation ponds

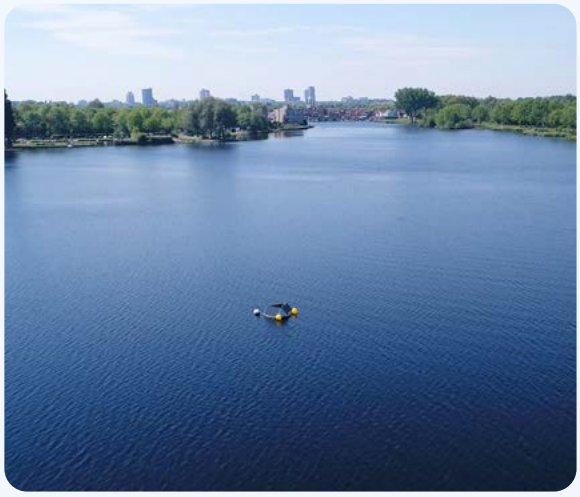


Prevent the clogging of pumps, filters and sprinklers in irrigation ponds

Over 10,000 LG Sonic products have been successfully installed in a wide range of applications in 55 different countries.

MPC-Buoy for larger water surfaces

The MPC-Buoy is an advanced floating system that harnesses the power of solar energy to function. Not only does it serve as a real-time water quality monitor, but it also employs ultrasonic sound waves as a method to manage and control algae growth. Specifically designed for larger bodies of water like lakes and reservoirs, this innovative solution provides a sustainable and eco-friendly approach to maintaining water health and clarity. Its dual functionality of monitoring and algae control ensures that water bodies remain in optimal condition, reducing the need for chemical treatments and preserving the natural ecosystem.

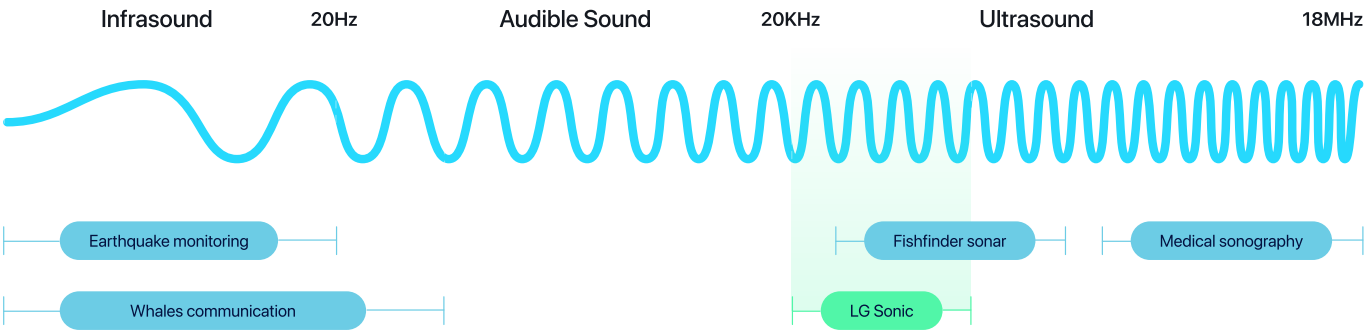


How ultrasonic algae control works

Eco-friendly ultrasonic treatment

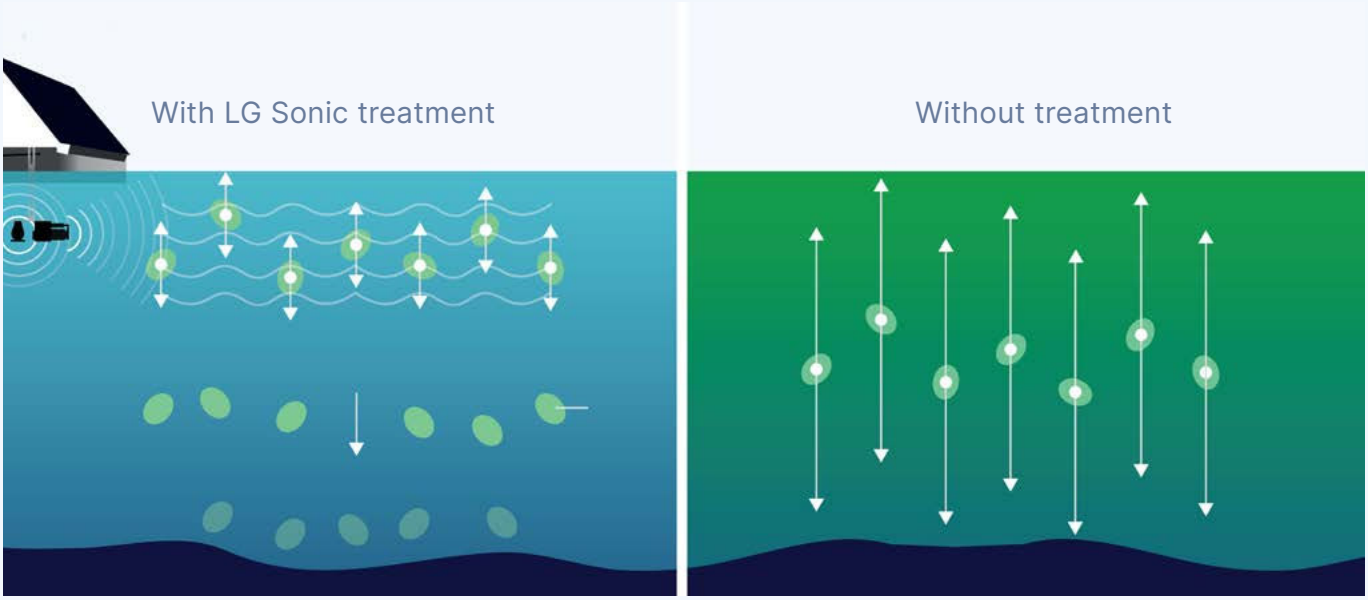
Algae blooms reduce light penetration, deplete oxygen, and release dangerous toxins, harming fish, plants, and other aquatic organisms. By controlling algal growth, LG Sonic's ultrasonic technology has the power to restore entire ecosystems.

After one year of treatment, algae levels will significantly reduce as water clarity increases, encouraging plant growth and therefore, increasing oxygen levels. Our ultrasonic treatment reduces algae blooms by up to 90%, compared to no treatment.

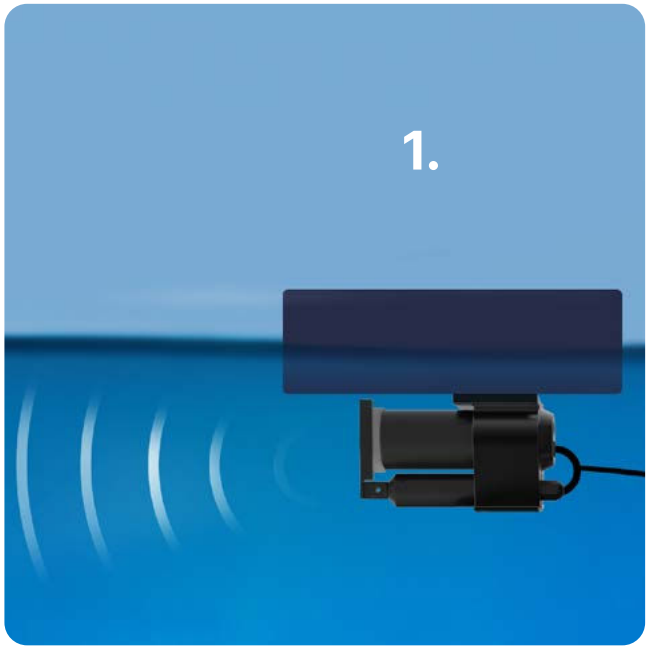


How ultrasound targets the algae

1. Algae move to the water surface for photosyntesis. The ultrasound creates a sound layer at the top of a water body.
2. The ultrasound affects algae's vertical movement by fixing them in the water column.
3. Without sunlight and nutrients, the algae sink to the bottom, where they decompose without releasing toxins.
4. In time, bacteria will degrade the algae.



LG Sonic e-line features



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.

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	• Unique Chameleon Technology™ • Up to 200m / 650ft treatment range • 12 pre-installed ultrasonic programs • Max freq/program, 80 • Ultrasonic generator intregated n the ultrasonic transmitter • Transmitter cable, 20m/65ft (extension possible) • Float
Control box	• Choose between 1 or 2 transmitter outputs to one control box • LCD display with control buttons • Remote control monitoring, GSM/GPRS • AC input voltage, 100-240V AC, 50/60hz or DC input voltage, 24V DC • Energy consumption, 5-40 Watt • Weatherproof design, Aluminum • Ingress protection, IP67
Aquawiper™	• IP69 underwater housing • 180° turning angle • Industrial-designed brush
Solar power system**	• 250 WP solar panel • 2× 12 Colt, 60Ah batteries • Solar regulator • Panel mounts or poles are optional
Flexi-arm™	• 1 meter arm for easy installation • The flexi-arm can be extended up to 3 meters
Installation bracket™**	• Install ultrasonic transmitter without float • Easily remove ultrasonic transmitter for maintenance checks • Coated stainless steel • Length of 40 cm

* For an effective treatment it is important that the minimum depth of the water is least one meter

** The solar power system, flexi-arm and installation bracket are optional

About LG Sonic

We're global leaders in sustainable algae management. Our patented ultrasound integrated into our technologies can be remotely controlled by our team of experts.

For over 10 years, we've invested in research and development. Today, we deliver technological solutions that restore aquatic ecosystems without the use of chemicals or other pollutants.

100+
Clients

55+
Countries

12+
Industries served

LG Sonic Headquarters

Opened in 2011, this European venue is where we established our corporate headquarters and our R&D department. At this location we continue to improve our features and technologies in our in-house water laboratory.

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