

ULTRAGUARD

Master Series

YACHTPROJECTS INTERNATIONAL



YachtProjectsInternational

Ultraguard Ultrasonic Antifouling

Designed, developed and manufactured in the UK by Marine Growth Prevention Specialists Ltd (MGPS)

Ultraguards Advanced Ultrasonic antifouling solutions can be customised to suit your vessel's requirements.

UltraGuards Digital Control circuitry and the choice of 4 types of transducers to ensure your vessel receives the antifouling profile it requires.



Master Series

The Master Series units have exactly the same signal generation, control and amplifier circuits onboard as the full UG commercial series. The Master Series has the same powerful acoustic output and creates the same antifouling effect that major shipping companies all over the world already enjoy from Ultraguard.

The only difference electronically is that we were able to leave out the power supply that converts AC power to DC and replace it with a PCB designed and built by our team which manages the incoming DC power, smooths it out and adds a safety device between the system and the supply from the vessel's batteries.

Packaged into a custom designed and robust aluminium enclosure, the Master Series is the perfect solution for tackling marine growth on small commercial and leisure craft!



What makes us different?

Research – Having been involved in the global market with other brands for five years the founders of Ultraguard have been the lead in much of the research done over the years. They also had the benefit of seeing which research theories work in the real world on other systems and all of the positive aspects are implemented into Ultraguard.

Quality – From their own research and development Ultraguard has the highest quality of components and manufacturing in the market. The factory is fully ISO compliant and the process means full traceability on every component used. The location of the factory in the UK, not a remote factory in the Far East, means quality control and the ability to very quickly fix issues that arise is easy.

Power – Ultraguard is the most powerful system on the market, up to ten times as powerful as some competitors. The optimised circuitry and amplifiers to work specifically with their transducers giving a cleaner and streamlined signal. Having their transformers custom wound in the UK ensures optimum performance in every system allowed them to lower operating temps by 20%. as opposed to using off the shelf equipment. This leads to higher efficiency and 100% reliability.



HOW IT WORKS





Environmentally Friendly

Ultraguard Antifouling is a zero pollution solution: No chemicals, metals or poisons enter the marine ecosystem



Microbial Control

Ultraguard is effective at combating "Diesel Bug" in Marine Gas Oil and Diesel tanks.



Cost Effective

With no consumable parts and ease of installation, Ultraguard can give an immediate return on investment and pay for itself many times over during the vessel's life.



Easy Installation

Ultraguard can be fitted to any vessel. The majority of transducers require no welding to fit and Ultraguard can be fitted whilst the vessel is at sea. Dry dock is needed only to clean the initial growth



Less Downtime

Keeping cooling systems and hulls free of marine growth improves efficiency and reduces downtime.



No Disturbance

No mammals. Fish are hurt during operation. The spoor live on to attach elsewhere.



Clean Ships, Clean Seas




Copper pollution from ICAF antifouling anodes is adding dramatically to all of the pollutions.

Ultraguard Antifouling offers vessel owners a cost-effective, ZERO pollution alternative.

EU's memorandum

The EU's moratorium on the outlawing of copper based biocides ends on the 31st of December 2025. After this date the use of copper based antifouling on vessels, such as Impressed Current Antifouling Anodes (ICAF) in EU waters will be banned. Fitting Ultraguard now will ensure your vessels comply with future regulations.





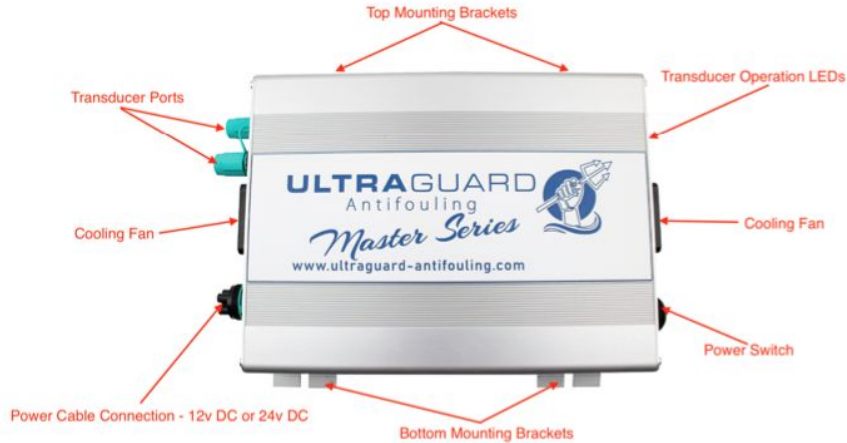
The System :
Is comprised of transducers,
wiring and a control unit :



Transducers: Easy to fit with only welding required in ballast tank installations

The water contains a microbiome of various species of larvae in suspension that will attach themselves to marine structures and surfaces if the conditions allow. These larvae require a number of environmental criteria to be in an optimum state to allow them to begin the colonisation process. These criteria include water temperature, salinity, light levels, time of year, concentration of larvae and seed in the water. These along with other criteria can affect colonisation depending on the species and type of growth. A suitable surface to attach to is also essential.





Master Series

- Control Unit Dimensions: L = 260mm x H = 200 (including brackets) x D = 52mm
- Control Unit Weight: 1.6.kg
- Control Unit Current Draw (Two Transducers Attached): @12v DC – Inrush
- Continuous = 1.1 Amps
- @24v DC – Inrush = 6 Amps Continuous = 0.55 Amps
- Power Consumption (Two transducers operating): 13.2 Watts Continuous
- Transducer Power: 120w
- Frequency Range: 18kHz – 42kHz
- Control System: Fully digital microprocessor controlled signal generator and amplifier circuits





Our goal is to use ultrasonic sound waves to create a resonance in the structure which causes a vibration in the surface being protected. This, in turn, becomes a sub-optimal location for the colonisation process to begin. This vibration can only prevent the colonisation at the larval stage. Mature growth creates bonds that are too strong to be affected by the vibrations. To this end, ultrasonic antifouling systems can only keep a clean surface clean, they can not clean a heavily fouled surface.

It sounds like a simple process but acoustically there are many challenges to overcome, especially on complex structures such as coolers. It is the research and development that we and our partners have undertaken that sets us apart from the competition.



Enquire

For more information please contact;

Pippa Nicholas, Technical Director & Partner via pippa@yachtprojects.net

Telephone +44 7889 513159 (+WhatsApp) or +1(912) 695 2449

<https://gopaperless.eu/yachtprojectspippa>

Ben Maguire, Global Sales Manager via benm@yachtprojects.net

+44 7918 716261 (+WhatsApp) <https://gopaperless.eu/bmaguire>

Darren Hunt (Area Sales Representative for Palma de Mallorca) via darren@yachtprojects.net

Telephone +34 660 09 65 23 (+WhatsApp) <https://gopaperless.eu/yachtprojectsdarren>

Daniel Rato (Area Representative for Singapore)

Daniel.sypm@gmail.com +65 9758 6700

