



SUCCESS STORY

Electromagnetic Solutions for Unmanned Underwater Vehicles

EMI filtering is a key component of unmanned underwater vehicle systems to eliminate interference and frequency emissions.

Electromagnetic interference (EMI) generated by electronics in Unmanned Underwater Vehicle (UUV) operations can be a serious concern. Spectrum Control designs and manufactures the broadest line of EMI filtering products for electromagnetic compliance (EMC) in the industry and has the experience of validating these products to ensure system-level requirements.

Spectrum Control offers a wide range of standard products. We can also develop a product or integrated assembly to help address UUV design's mechanical, electrical, and power demands. We offer flexibility to filter EMI at the power source, at the I/O connection, in a barrier wall, or on the PCB.

Communications & Control

Reliable communications for high data throughput in harsh conditions is essential to ensure uninterrupted signals from UUV to surface control units.

- D-Sub Connectors
- Circular EMI Filter Connectors
- Hermetically Sealed EMI Filters
- Power EMI Filters

Power Supplies & Distribution

Unmanned vehicles are powered and controlled via a tether from a ground-based power source. Protecting these systems from EMI is critical.

- Power EMI Filters



RF Transmitters

RF transmitters support many UUV systems missions, including military and law enforcement surveillance, infrastructure surveying, and underwater imaging.

- EMI Filter Plates
- Resin Sealed EMI Filters

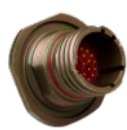
Additional UUV Applications

Spectrum Control will support countless UUV applications by eliminating or reducing EMI:

- Navigation systems
- Signal/data/power lines
- Sensors
- Sonar
- Instrumentation



EMI Filtered D-Sub Connectors



Circular EMI Filter Connectors



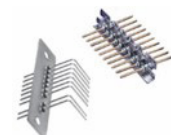
Hermetically Sealed Filters



Power EMI Filters



Resin-Sealed Filters



EMI Filter Plates