

MULTHY, A LONG-RANGE RTSYS RECORDER

The MULTHY system is made up of a recorder with 16 acquisition channels, and an acoustic antenna.



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The new acoustic recording system from the RTSys company synchronizes 16 hydrophones for improved range and recording quality while still controlling cost and energy consumption. The MULTHY system will be available at the beginning of 2019.

The MULTHY recording system can hear up to 4 times further, thanks to its 16 acquisition channels. MULTHY has a listening surface 16 times larger than an RTSys RESEA recorder, which can only accept up to 4 hydrophones.

MULTHY is a system made up of a recorder coupled to an acoustic antenna (linear, flat or geometric) equipped with 16 omnidirectional hydrophones. The system is less than 20m long and can be launched by 2 people from a light boat. The multiple hydrophones, in combination with digital processing, reduce noise and therefore improve signal quality. The equipment can record below the marine background noise over a frequency range up to 100 kHz.

A new circuit board

The success of this challenge essentially rests on a modification of the SDA (Synchronous Data Acquisition) circuit board which is at the heart of all RTSys products. While maintaining an identical format and a power consumption that is still under control, the new version SDA-416 has considerable calculating power and 4 times the functionality of the prior version.

MULTHY is intended for acoustic engineers and operators using consultants. With 16 hydrophones, the user can record over the same area as 4 RTSys RESEA recorders, while reducing costs, or add other sensors to the system, for example multi-parameter sensors. In common with the other RTSys products, all of the raw data is stored in the device and can be retrieved at the end of the mission.

RTSys, innovation in underwater acoustics and drones

Specialists in passive and active underwater acoustics and drones, the RTSys company has more than 30 years of expertise and extensive business experience in the development of reasonably-priced high-tech products. Its innovations are used not only in the civil sector, but also for defense, and are equipped with SDA (Synchronous Data Acquisition) technology, developed by RTSys.

Within a context of increased monitoring of the marine environment, in connection with reducing noise pollution, RTSys is one of the front-runners in acoustic monitoring, following huge investment in research and development, and in cooperation with the scientific community.

RTSys' recognized expertise in the defense sector and its close collaboration with the French Navy enable it to develop innovative underwater detection.

Notable recent RTSys achievements include underwater drones, which can communicate as a pack and the MIMO (multiple input multiple output) acoustic modem, which considerably increases the data transfer rate in water.

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