SciFish

PM-01

Persistent Autonomous Bottom-Mounted Sonar

Persistent

Reliable

Cost-Effective

Autonomous

Portable

Rugged

The Model PM-10 is a standalone sonar system designed to operate for up to a month on the sea bottom autonomously and is able to count and track fish continuously. All data is stored in the unit and an optional wireless connection at the surface allows you to access your data at any time and it can provide complete control of the unit while underwater; allowing you to change sampling parameters to better fit your needs.

The Model PM-01 is an upward looking, split beam, narrowband sonar system. Each unit has a custom electronic circuit board designed for power distribution, data storage, and signal conditioning, providing the low power autonomous operations needed for four-week deployments. Echoview software provides proven analysis and reporting.

Recent testing in Alaska's Bering Sea have demonstrated the Model PM-10's ability to reliably collect fish passage data within one meter of the surface. Similar uses for monitoring sharks, manatee, whales, fish, and other marine life makes this unit suitable for a wide range of research applications. One unit can pay for itself in a single season when considering the cost of vessel, crew, and equipment that would be needed to do the same task.

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Specifications

Operational Range		30-100 meters
Ping Rate		5 pings per sec @ 100 meters
Transducer Type		Split- beam
Transducer Beam Shape		Conical
Transducer Beam Width		7.2 deg
Maximum Deployment Duration		4 weeks
Power source		Internal 14 VDC
Power Consumption per unit		7 Watts
Surface Communications	(Option)	802.11g Wireless
Storage type		Internal HDD
Storage size		256 GB
Weight		125 lbs in air
Dimensions		53” H x 22” Diam
TX Power		250 Vpp
TVR		185 dB re 1 µPa / Vrms
OCVR		-184 dB re 1 Vrms / µPa
Embedded Computer		ARM TS-7260
Gain		83 dB

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