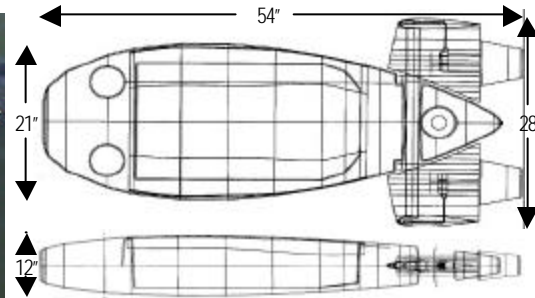


Office of Naval Research



CETUS II



LMP POC:

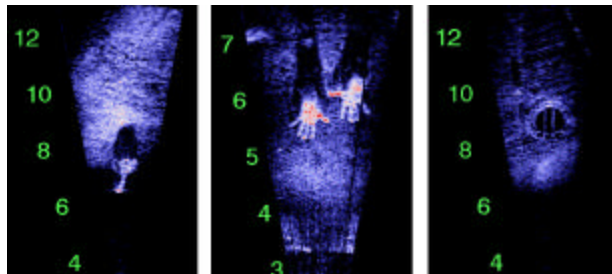
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CETUS II is a low-cost, hover-capable unmanned underwater vehicle (UUV) designed for survey, relocation, and inspection / intervention operations. With the Explosion Ordnance Disposal Robotic Work Package (EODRWP), it is being applied to the problems of search and evaluation of mines and other ordnance. CETUS II is the smallest hover-capable UUV and may be launched and recovered from small boats with minimal handling equipment. Major sensors are a high frequency imaging sonar developed by UW / APL and low light video imaging. CETUS II can search in patterns, including ladder, concentric box, and circle. It can also autonomously and dynamically realign the search track based on prevailing currents. Sensor data is logged onboard and downloaded when the vehicle is recovered.

USE: Locate, detect, classify, and identify mine and mine-like objects in depths of 33 - 525 feet.

Physical Characteristics:

Length 54" (1.37 m)
Width 28" (71 cm)
at max width
Weight 120 lbs (54.5 kg) dry
175 lbs (79.5 kg) wet

Sensor Packages:

Bottom Acoustical Imaging
Acoustic Doppler

Navigation Means:

Long Base Line
Differential GPS Doppler INS

Dynamic Tracking:

Yes

Onboard Identification / Classification:

Yes