



VCM

# Video ATR Common Module



The Video ATR Common Module (VCM) is a modular, Electro-Optic (EO) wet payload for Unmanned Underwater Vehicles (UUVs) that delivers onboard real-time capabilities including Video Enhancement, Video Mosaicking, Video Automatic Target Recognition (ATR), LED lighting control, image compression for in-situ exfiltration, and onboard data storage for archival. It incorporates a laser visibility sensor to inform platform autonomy and is supported by VATR post mission analysis (PMA) software. Developed for the U.S. Navy's MK18 program and currently at Technology Readiness Level 8, the VCM integrates with the MK18 Mod 1 Swordfish, Mod 2 Kingfish, MK18 ASP, and Lionfish PoRs.

## Key Features

- Low size, weight, and power
- Real-time, onboard algorithms
- Onboard data storage
- Dynamic video enhancement and mosaicking
- Laser visibility sensor
- Image compression
- Lighting control



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