

# Autonomous System Delivered to the Canadian Hydrographic Service



ASV Global has converted a 26ft hydrographic survey launch to enable it to operate autonomously using the ASView control system, while maintaining its ability to operate in a conventional manned mode. The launch, which is part of the Canadian Coast Guard's (CCG) fleet dedicated to the survey operations of the Canadian Hydrographic Service (CHS), will be used as a test platform for unmanned survey work.

This delivery to the CHS marks ASV Global's 10th unmanned conversion of a customer vessel using the ASView system.

ASView enables the launch to follow planned missions giving it the capability to operate as a standalone survey launch controlled from the shore or as a force multiplier controlled

from another vessel.

ASView seamlessly interfaces with the launch's existing engine, steering and navigation systems to enable autonomous operation. The launch is connected to a remote station via a suite of IP radios enabling real-time monitoring of the survey acquisition data and vessel parameters.

The launch is equipped with an advanced collision avoidance system using radar and AIS to ensure its safe operation. Situational awareness is provided by five onboard cameras with audio feedback. ASView monitors the launch's onboard sensors including depth, engine and battery health status alerting the remote station of any potential hazards.

ASV Global's team of autonomous systems engineers worked closely with the CHS team, completing the installation and acceptance tests onsite in Canada over the course of five weeks. Following on-water testing, ASV Global delivered its MCA recognised Maritime Autonomous System Operator training course to delegates from CHS and CCG.

ASView is ASV Global's proprietary control system, developed and optimised specifically for autonomous and remote control of unmanned vessels and the conversion of manned vessels for unmanned use. In continuous development since 2008, ASView has been deployed on over 90 unmanned new build and retrofitted vessels. The proven system has accumulated over 1500 days of unmanned operations.