



# Jason Imaging & Illumination Upgrade Report



*The Fall 2010 Report described a host of problems that had occurred on recent Jason cruises and were being addressed.*

- Broken optics:

*Temporary optics supplied by AIVL were replaced with our final system*

- Connectors on housing in poor location:

*Corrected by AIVL*

- Topside lens/camera control system :

*Many software/hardware changes made. New hardware integrated into single controller by AIVL. Settings can be saved. Training provided.*



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- Incomplete, apparently untested, and awkward camera control and still image acquisition software:

*Many software changes made. System is much improved, and provides real time feedback of still imagery.*

- HD-SDI “flashed”, interrupting recording.

*Bad connector/cable found, problem resolved*



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- Camera low light performance was poor:

*System was incorrectly configured on delivery. When fixed, sensitivity improved, but camera still requires more light than expected. New LED lighting helps, but use of HD will always place a premium on pointing the camera at well illuminated areas, and keeping the camera and optics well adjusted.*

- Insufficient documentation.

*More documentation provided, as well as system training by AIVL while system was in Woods Hole. Documentation is available for perusal.*



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- Data product generation incomplete and undocumented

*Resolved. System now saves raw AND color imagery in real time, as requested. Products have been documented as described by S. McCue.*