

901107 SeeStar Imaging System

Rating: Some possibility of support

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Management Team Feedback:

The SeeStar team has done a nice job of working with outside groups and engaging outside users of the system. We appreciate your efforts in working with the TNC in helping to find more cost effective visual tools for their application. We would like to see more internal connections as well. These internal users can help refine your next set of requirements since the visual tools workshop did not provide an adequate or comprehensive set of requirements.

For Phase 1, we encourage the team to focus the engineering effort on refining the scientific use cases and requirements. Limit your efforts to evaluating requirements and assessing the results of the version 2 build. Conduct limited prototyping to evaluate and select an imager that has a longer life cycle than the GoPro cameras. This prototyping could also include controllers. Contextual data will be very important for future applications of this system so this should be considered when evaluating controllers for I/O expandability beyond the current suggested requirements. (We believe that variables such as oxygen and pH will be equally important as CTD when interpreting the images.) Additionally please work with the Video TAG to consider how video from SeeStar could be incorporated into MBARI's video processing workflow. Also work with the Video TAG to consider deep learning applications for automated processing of images or video.