

Action Items from Freshman Imaging Project PDR – Nov 8, 2012

1. Further work needs to be done to validate the system level requirements. Even though the user has indicated desired levels of performance, the development team still needs to confirm that those levels are justifiable based on analysis or empirical data. Formally validating all of your requirements is an essential step to ensuring that you design a system that does the desired job without spending time and money to achieve unnecessary or over constrained levels of performance.
2. More work needs to be done with the user to understand the operational environment in which the system will be deployed. What area is most critical to image? What options do you have when it comes to mounting the system? What are the relative merits and drawbacks of locating your system in each of these areas? How would the system requirements be influenced by locating the system at each of the possible locations?
3. Why weren't lenses explicitly considered in the Pugh Analysis matrix? What properties of the lenses should you consider in your analysis?
4. What are the relative merits of the various "classes" of configurations considered (linear, 2-D array, curved, etc.)? How will the location of the system in the security checkpoint influence the final selection?
5. Justify your assertion that the live video frame rate must be the same as the stored video frame rate, in terms of image quality.
6. Will the system you demonstrate at ImagineRIT differ from your operational system, and if so, how?