

Luxsonic Project: Incremental Deliverable Features

Completed Incremental Deliverables

ID1

- Build project successfully using build infrastructure
- Look around 3D environment that contains generic objects, headset calibrated correctly
- Interact with an object in the environment using:
 - Mouse
 - Keyboard
 - Controller (if department has the hardware)
- Load a sample DICOM image and display it
- Crude 3-monitor display prototype

Results: All of the above except the sample DICOM image were successfully incorporated into the prototype.

ID2

- Better, rebuilt displays (using best practices)
- Interact with Copies to
 - Move them in space
 - Close and open monitors
 - Resize monitors
- Integrate Touch controllers into system.

Results: Copies can be moved and Touch controllers were integrated successfully, but Copies cannot yet be closed or resized using the Touch controllers. DICOM integration was pushed back to ID3 after discussion with the client.

Future Incremental Deliverables

ID3

- DICOM image filesystem
- Open and close image files from filesystem
- Dashboard and Tray implemented
- Pull Copies out of the Dashboard
- Program UI
 - Quit
 - Options
 - New Workspace etc.
- Crude anti-motion-sickness/eyestrain features

ID4

- Cycle through DICOM images (depth, animation?)
- Snap Copies to a “grid” or predefined layout when moving, unless trigger button depressed
- Environment options for lighting
- Save/load representation of workspace
- Improved anti-motion-sickness/eyestrain features
 - Field of View adjustment

ID5

ID5 will have no scheduled additional features at this time. The main focus of this deliverable will be to polish the features from other deliverables—this time is slack to accommodate the inevitable delays in completing previous features.