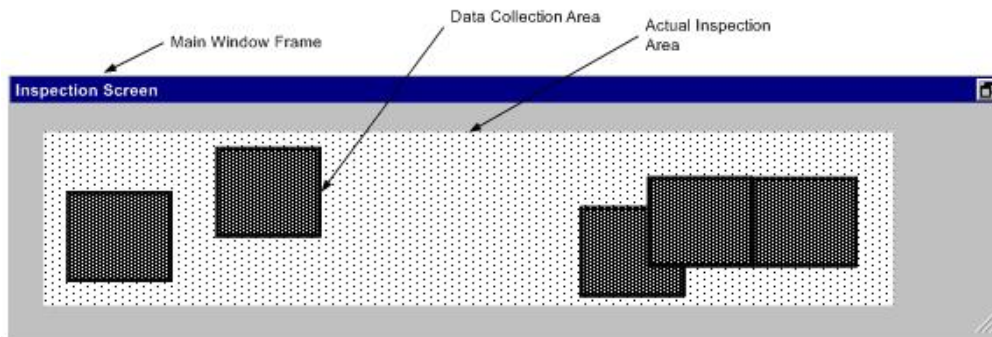


X-Ray Gauge Parts Inspection

An X-Ray based system was required to automatically inspect manufactured parts for conformance to dimensional tolerances and standards such as the location and measurements of holes or joint fittings. The characteristics of these parts are determined from 2-dimensional data generated by a hardware system using x-rays and a flat-panel assembly moving in a single plane.



Using a combination of custom image processing algorithms and 3rd party tools, point cloud data was gathered and compared against a template to create quality assurance reports. Some of the manufactured parts were up to 8 feet in length, and it was necessary to display the x-rayed image and the CAD based drawing across 8 monitors to display the parts in the proper proportions.

This viewer's features include:

- Compound image viewing on a display surface spanning across 8 19" monitors.
- Sub-image overlays against a large canvas background.
- Proportional display with image zoom capability.
- Window width and level support for detailed inspection of areas of interest.

Contact

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