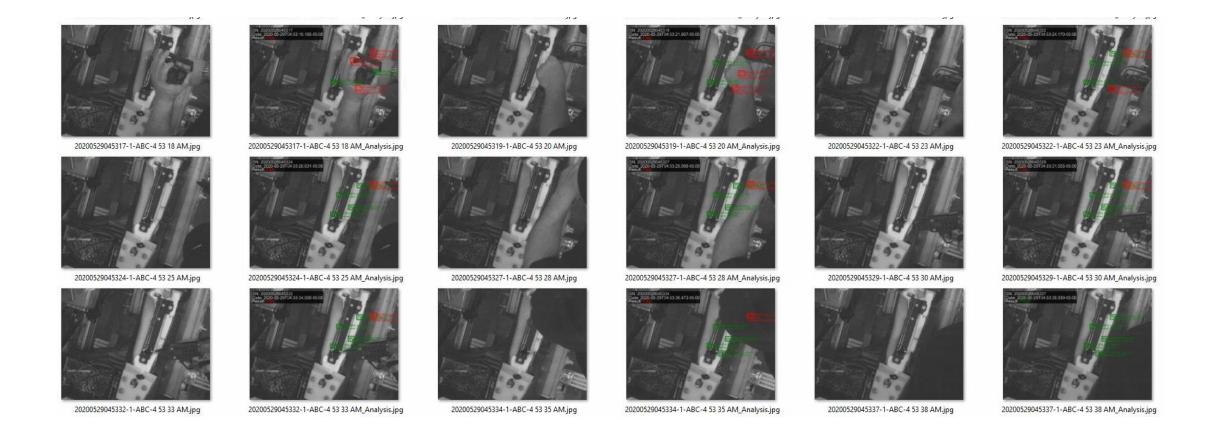LM3
Technologies

PAQi Object Detection

Hog Rings

5 hog rings to hold cover over arm rest console. Notice the black material in this one

Same detection, lighter colored cover

The camera is mounted on the overhead lighting structure to make sure it is out of the way and a sliding torque tool that is used to fasten the air bag to the console frame. After, the operator fastens the cover to the frame as shown in the above sequence where eventually the operator inserts the 5 hog rings to complete the operation.

Advantage Over Other Systems

- One camera can be used at a long distance from the part to clear the area for assembly.
- Traditional system are unable to detect small silver objects on a white background.
- Our system is able to detect small objects anywhere in the field of view regardless of rotation or left to right positional differences.
- One trained model can be used for the left and right side as well as two different assembly fixtures with slight differences in camera angle and fixturing.
- No special lighting is required.
- Cost of system is significantly less than traditional system that would require up to 5 smart cameras at $1500/camera plus integration.