APPLICATION DATA

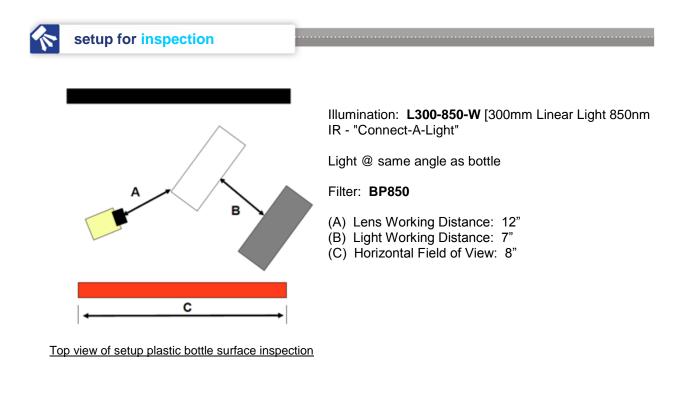
Surface Defects Plastic Bottle

Bar/Linear Light L300-850-W

description of application

smart vision lights

Inspection of plastic quart sized motor oil bottles for streak defects. The goal of this application is to image the bottles clearly to determine if there are any streak defects.





Infrared lighting lends itself to be very useful when looking at different plastic applications. By lighting the bottle with an intense IR light the streaks show up. A good bottle appears very white almost washed out as a streaked bottle is much darker. The trick is to illuminate the bottle without creating too much hot spotting. In this application a linear light was used with good results. Increased results could be obtained by utilizing a high powered back light to create more even lighting.



Above: Left - Raw image of a good bottle. Right - Raw image of a streaked bottle. Below: Filtered images of the bottles above.



