



**VIZZITEC SOLUTIONS PVT. LTD.**  
CASE STUDIES

# GLASS INSPECTION

The customer is world's largest producer of glass and has manufacturing plants in India. The vision system detects logo presence in the glass and its position. The glass moves on a conveyor at a speed of 40mts / minute. The conveyor has a width of around 2.5 mts and the glasses of various types having various dimensions are manufactured.

The first challenge was to capture a moving object with blur free images. The second challenge was to have a uniform lighting for the entire width of the conveyor. The third challenge was to detect the glasses that come into system for checking. A high frame rate camera with provision for positioning the camera on the conveyor according to the glass and logo position was provided. A customized DC lighting to cover the entire area was developed. The cameras are made to capture the images continuously and the edge detection of the glass is signaled as the start of image processing. The entire system including mechanical fixtures was developed by Vizzitec.

The project took more implementation time because of the various sizes of the glasses and availability of space. The project got successfully implemented and the customer is happy. The customer preferred Vizzitec for various other projects.

