1. Color differentiation of plastic components in the automotive industry

In the automotive industry there will be used a lot of plastic components even in the interior area.

These components will be used amongst others for the side doors, the car seats, the rear door, the headliner and the dashboard. The colors of these plastic parts are more or less either gray or beige or black. But there are different tones of black and gray and beige which should be distinguished to make sure, that the right component is on the right place of the respective car. For this application a color sensor type **SPECTRO-3-FIO-CL** in connection with an optical fiber type **R-S-A2.0-(2.5)-1200-67°** and an optical frontend type **KL-M18-A2.0** is used. The distance of the optical frontend to the object is around 25mm and the white light spot size at this distance is approximately 4 mm. As shown in the screenshots there is a proper differentiation of the respective plastic parts possible.