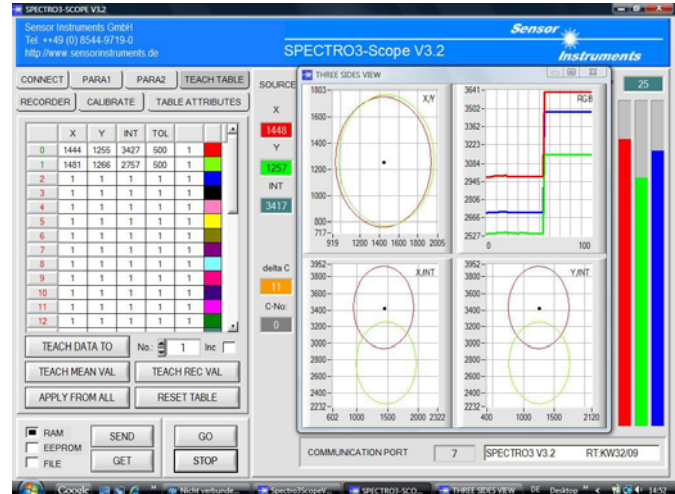
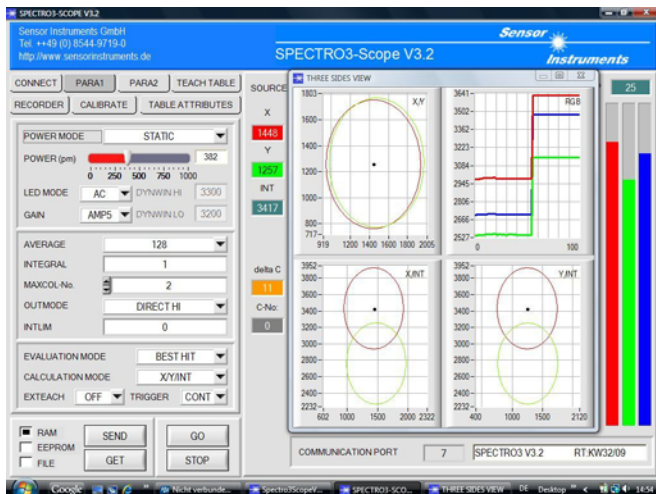
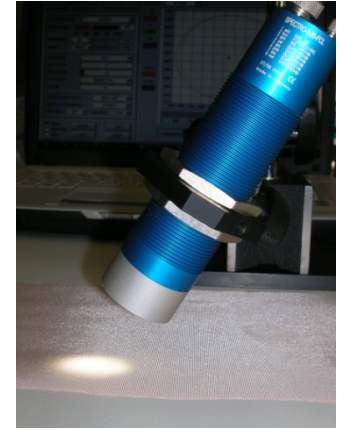




1. Quality control during the airbag manufacturing in the automotive industry

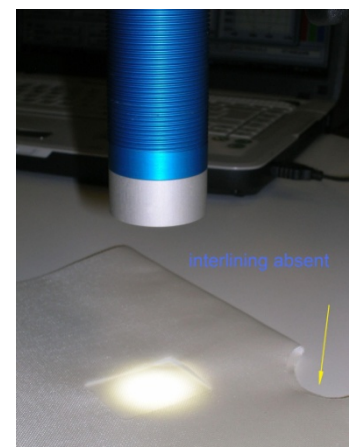
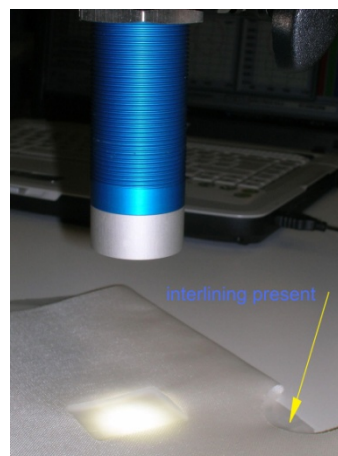
1.1 Surface control of the airbag textile coated / uncoated

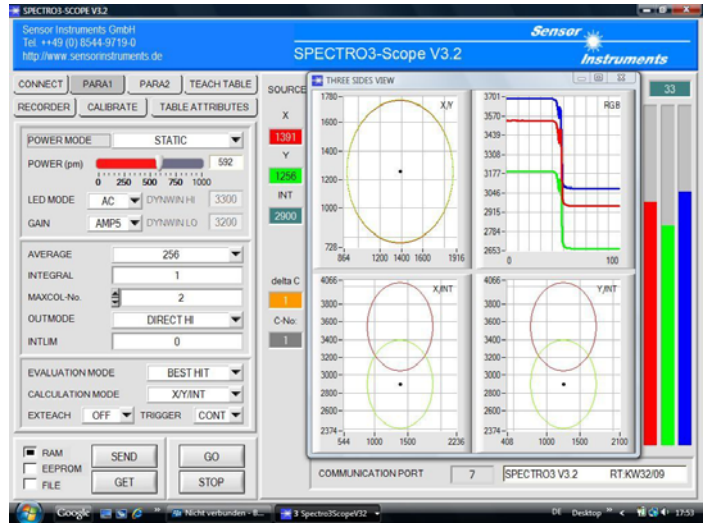
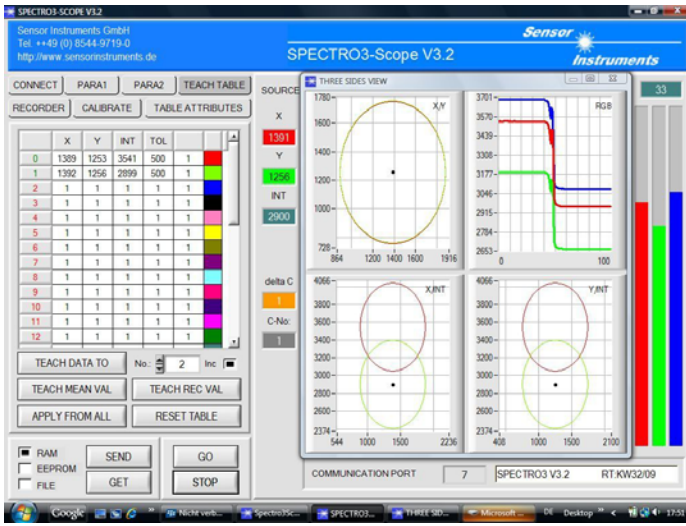
One side of the airbag textile is coated, whereas the other side is uncoated. The task is to check, whether the top side is coated. Used sensor: **SPECTRO-3-50-FCL**, directed 45° to the surface at a distance of 50 mm. As shown in the screenshots, there is a proper difference between the coated and the uncoated surface. Furthermore, we have used in this case the x/y/INT – mode, which should be used, if there is nearly no color difference between the taught values. The coated surface delivers a smaller intensity, because of the higher direct reflectivity compared to the uncoated surface.



1.2 Check of the presence of the plastic foil interlining in the airbag textile

The presence of a plastic foil interlining should be checked through a cut-out of the airbag textile. Used color sensor: **SPECTRO-3-50-FCL** in the x/y/INT – mode. There is a significant difference between presence and absence of the interlining. The distance of the sensor to the textile surface is approximately 50mm. As shown in the screenshots, the intensity INT will be increased due to the presence of the interlining (red circle).





There is a significant difference between the INT value of the presence (red circle) and absence (green circle) of the plastic film interlining.