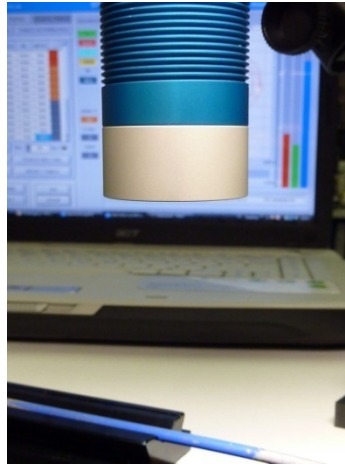


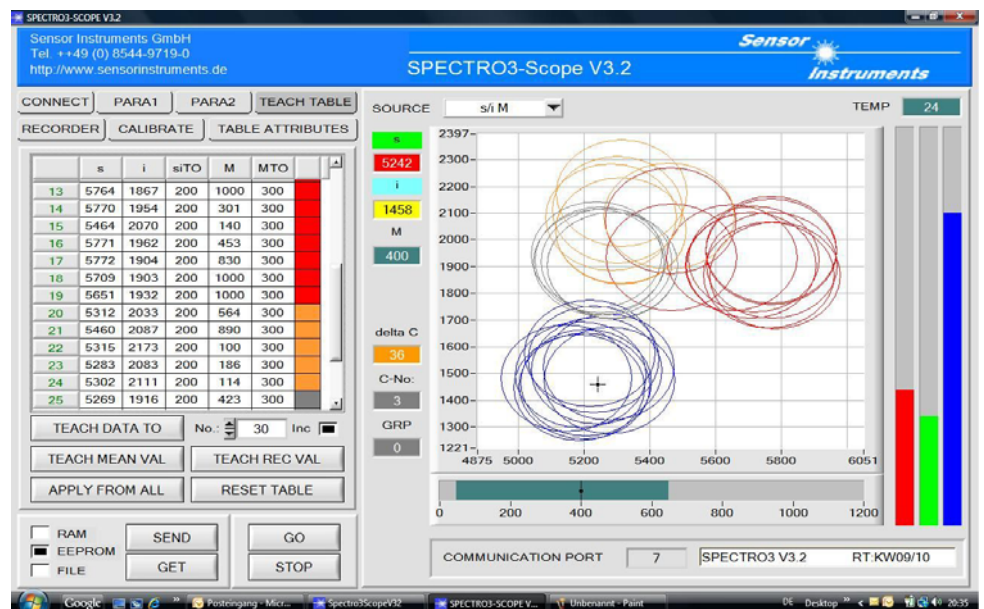
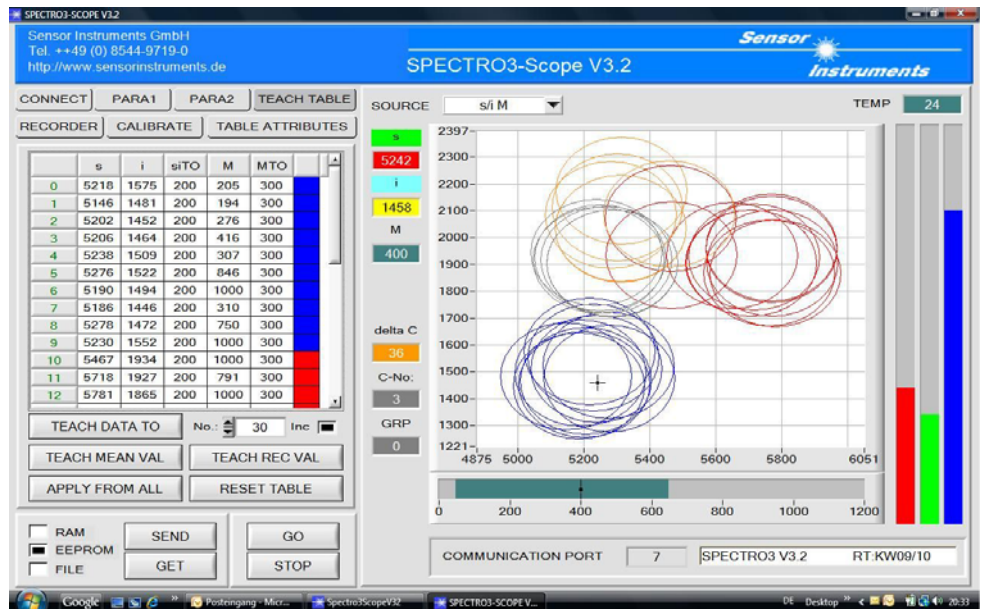


1. Color mark detection on steel wires

The area where the ends of two steel wires are welded together will be marked with either a blue or a red color. During the further processing this color mark must be detected. Different diameters of steel wires with different anodized surfaces should be controlled without any change in the arrangement of the sensor. Furthermore, the sensor should run with the same software parameters. Additionally there is a lateral movement of the steel wires of a few millimeters during the movement. Thus a color sensor must be used with a relatively big detecting area and the possibility of a proper detection of color groups for the different background colors and the color marks. With the color sensor **SPECTRO-3-30-DIL** there is a system available



which delivers a detecting area of approximately 15 mm at a distance of 30 mm to the object. Two color groups are foreseen for the two different background colors, the chopper-colored background as well as the silver-colored background and another two color groups informs about the blue and the red color marks. The screen shots show the different color groups, a proper detection of



the color marks under these circumstances is possible.

