



1. Color mark measurement on fabric

The $L^*a^*b^*$ values of color marks on different fabric should be determined. For this purpose a color measurements sensor type **SPECTRO-3-FIO-MSM-ANA** in connection with an optical fiber type **R-S-A3.0-(3.0)-1200-Y-67°-(1P+1BP)/2P** and an optical frontend type **KL-M34-XL-A3.0** will be used. At this, the frontend is directed under an angle of 35° to the horizontal axis, the distance to the fabric is approximately 110mm and the spot size at this distance is around 11mm x 6mm (elliptical). The calibration will be done on the respective fabric and due to a special calibration method, even the holes in the fabric can be compensated. It should be taken into account, that up to 64 set points can be used for the UCAL (user calibration). The $L^*a^*b^*$ values of the color marks on the fabric can be proper measured as shown in the screen shots.

