

Application - News N°75 SPECTRO-3 Series

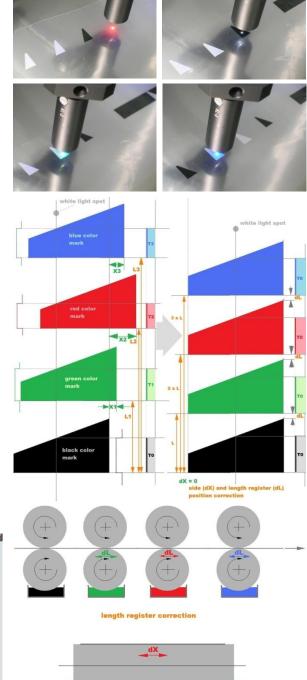
Instruments

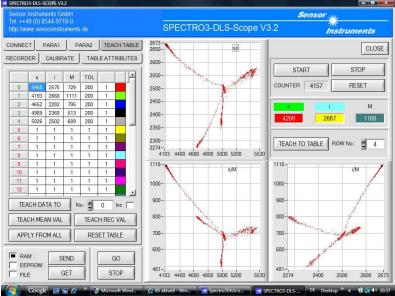
1. Color mark detection for side and longitudinal register control in the printing industry

In the web offset printing trapezoid like color marks will be used for the side register as well as the

longitudinal register control. For each color a color mark is used, at which all color marks will be synchronized to the black color mark. The trapezoid color mark informs about the longitudinal offset (L) as well as about the side offset (x), this information e.g. L1, L2, L3 will be used to adjust the longitudinal offset and x1, x2, x3 will be used to adjust the side offset of the green, red and blue color mark compared to the black color mark. With the SPECTRO-3-FIO-VISUV in connection with the external UV power LED ELS-UV-1P, the optical fiber

R-S-A2.0-(2.5)-1200-Y-22°/67°-UV and the optical front end KL-3-A2.0 a combination of a white light spot and an UV-spot will be focused at a distance of about 11mm to the object. Thus color marks (e.g. red, green, blue, black or cyan, magenta and yellow) as well as fluorescent marks (e.g. red, green or blue UV-fluorescent) can be detected. The SPECTRO-3-FIO-VISUV comes with the Windows® software SPECTRO3-DLS-Scope V3.2, which allows a record of scans in the special TEACH REC VAL mode. With this special mode, the software allows the operator to teach the color marks even during the run.





side register correction

dX

dX

