



1. Color detection of fluorescent marks on wood plates

On wooden plates defects will be marked with a fluorescent marker. The fluorescent mark has normally a width of about 15mm and it can happen, that two of this marks lie 20 mm away of each other, but must be detected as two separate marks. Furthermore the fluorescent marks should be detected at a distance of 200 mm to the object and even a mark with a width of 5 mm must be seen. With the color sensor for fluorescent colors type **SPECTRO-3-FIO-UV** in connection with an optical fiber type **R-S-A3.0-(3.0)-1200-Y-22°/67°-UV**, an optical frontend type **KL-M34/62-A3.0** and an external

UV lighting source type **SPECTRO-3-ELS-UV** a proper detection of the fluorescent color marks is possible. As shown in the screenshots it is recommended to work with the **color group mode** to compensate the influences onto the signal caused from different backgrounds (dark or bright). The distance from the frontend to the object is approximately 200 mm and the spot size at this distance around 8 mm.



