



1. Color control of a holographic transparent film

During the production of a holographic transparent film the color should be inline controlled. At this the color can only be detected under an angle of 30° to the vertical axis if the light falls perpendicular onto the holographic film. Furthermore the frontend should be directed perpendicular to the transport direction of the holographic film. For this purpose a color sensor type **SPECTRO-3-FIO-JR** in connection with an optical fiber type **D-S-A2.0-(2.5)-1200-67°** and an optical frontend type **KL-D-30°-23-A2.0** are used. There is a proper detection of the color of the holographic film possible as shown in the screenshots. The distance of the frontend to the holographic film is approximately 25mm and the spot size at this distance around 8mm in diameter.

