



1. Color and opacity control of gemstones

The color as well as the opacity of gemstones should be controlled. For this purpose a color sensor type **SPECTRO-3-FIO-JR** in connection with a through beam optical fiber type **D-S-A2.0-(2.5)-1200-67°** is used. The distance of the optical fiber to the gemstone is approximately 6mm, the spot size is around 3mm in diameter and the optical fiber is fixed in the **C-MOUNT-A2.0-180°-22/50** holder. The gemstones can be proper differentiated as shown in the screen shots.

