## 1.1 Detection of slightly burned veneer zones and veneer tear-off during the door production

The veneer will be glued onto the mdf - plate during the movement, however, if the process will be interrupted due to any reason, it can happen, that the hot air gun, which will be used normally to warm up the glue, scorches or burns the veneer surface slightly. Furthermore the color sensor should detect a veneer tear-off. Due to the fact, that this part of the door is visible, the burned door parts as well as the veneer tear-off parts must be sorted out. The sensor

is working here in the DYN1 mode, because there are different types of veneers in use and the sensor can be proper adjusted to the surface in this case. A color sensor type **SPECTRO-3-50-FCL** can be used for this application, the sensor is installed at a distance of approximately 50mm to the surface of the object, the measurements area is about 20 mm in diameter in this case. The attached screenshots shows the change between veneer to the slightly burned veneer as well as from the veneer to the mdf surface. All of the investigated veneers, (1) to (17), could be proper distinguished from the mdf – plate (0).
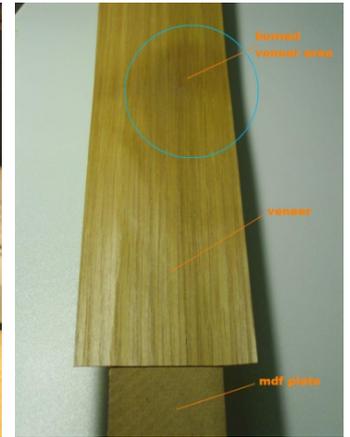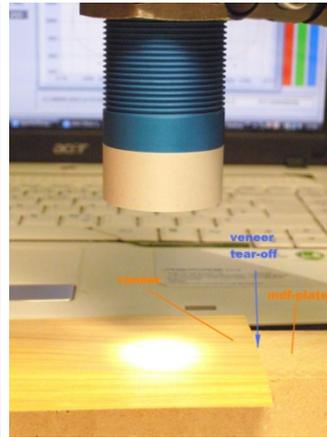
Field of application: Furniture industry

1.2 Differentiation between white glossy veneer and white matt veneer
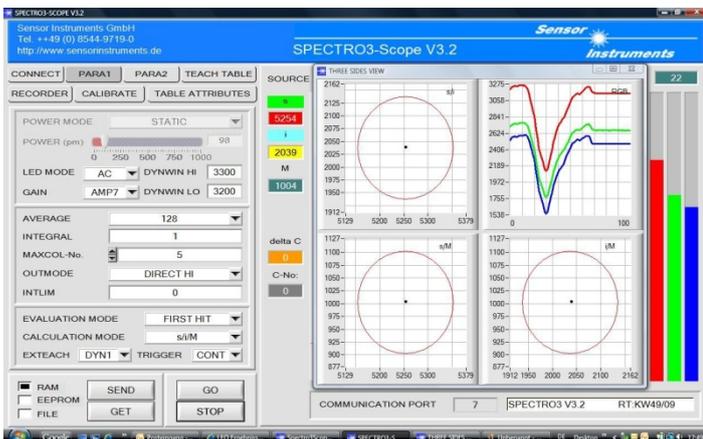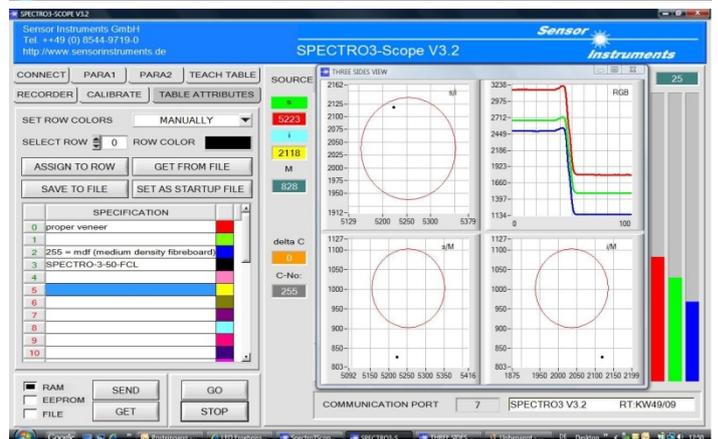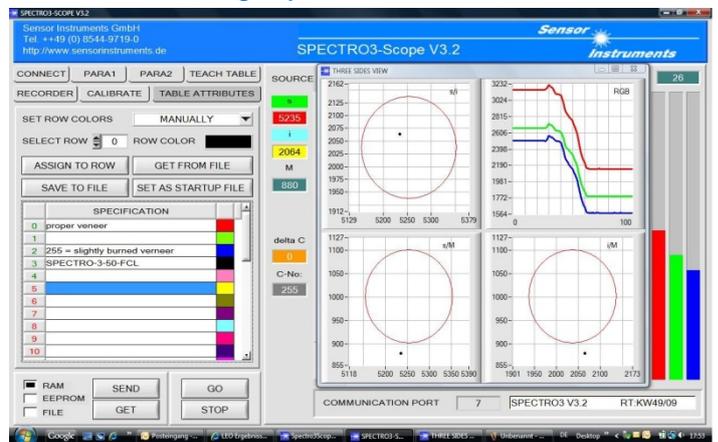
The task is to distinguish between white glossy and white matt veneer. Even here was used a color sensor type **SPECTRO-3-50-FCL**. As shown in the screenshots, there is a significant difference between the glossy and matt surface and of course to the mdf – surface.

Field of application:
Furniture industry