



1. Detection of glossy regions on a matt-finished glass plate

During the production of matt-finished glass plates the matt-finished surface must be controlled particularly with regard to small glossy spot. The glossy domains which should be detected are starting with a diameter of approximately 3 mm. The matt-finished glass plates are used for flat screen as well as for solar photovoltaic panels, thus the quality must be very high. A gloss sensor type **RLS-GD-15/60°** was used for the first investigations. The distance to the object surface is 15mm, but here a distance holder was used, which is normally not necessary, but it is very helpful for simplifying the test assembling. The sensor delivers two analogue signals (0V ... +10V and 4mA ... 20mA) as well as 5 digital outputs, which allows teaching up to 31 different gloss values. Furthermore the sensor is equipped with a RS232 serial interface, which offers the opportunity to parameterize and monitor the sensor via the Windows® - Software RLS-GD-Scope. As shown in the screen shots the glossy domains can be proper detected. To detect the very small glossy areas, with a diameter smaller than 3mm, the white light spot of the RLS-GD-15/60° must be reduced with an additional aperture down to a diameter of 5mm. In addition to the standard software there is a monitoring Windows® software type RLS-GD-Monitoring available, which allows the storage of the sensor data from up to 8 gloss sensors.

