



### 1. Differentiation of a matt and a glossy chromate knob

A matt chromate knob should be differentiated from a glossy chromate knob. Both types are used in the automotive interior field. For this purpose and after we have tested all of the different color sensor types without any success, we have decided to use a laser displacement sensor type **L-LAS-LT-50-CL**, but not to measure the distance to the object, but to use the different reflectivity of the matt and the glossy surface. The distance to the object is approximately 50mm and the peak of the video signal from the matt surface, which can be observed on the Windows® surface, is significant higher than the peak from the glossy surface (which is nearly zero). The screen shots show that a proper differentiation between matt and glossy knob is possible.

