

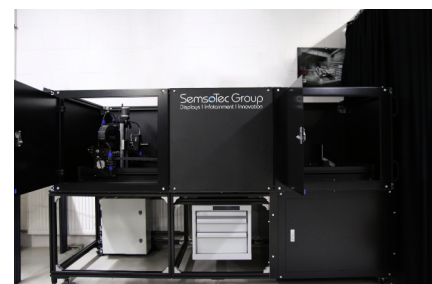
TEST BENCH FOR FOR DISPLAY MEASUREMENT

Fully automated optical display test system

The display test system has been developed to perform fully automated optical display measurements, as for example, required in the automotive industry. Due to the high degree of automation, the system can be easily operated without a detailed knowledge of optical measurement. The test results are shown in an easy to read measurement report (MS Excel), including customer-specific assessment of each measurement data.

COMPONENTS

- Light-tight measuring chamber with motorised positionable measuring camera in three axes relative to the display
- Video source to control the displays
- Individually adaptable to customer application GUI
- Camera measurement (Video Photometer) with 5 mpix (adjusted to the CIE color perception functions of the 2° standard observer (CIE 1931))



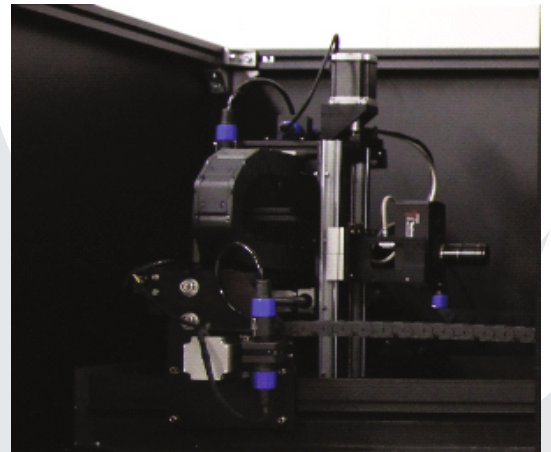
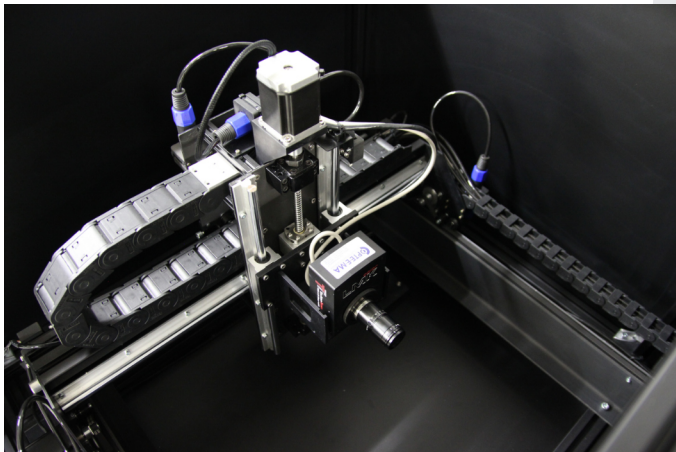
TEST BENCH FOR DISPLAY MEASUREMENT

Fully automated photometric display measurement
with measurement report generation

Modell: TE-1-1

FACTS

- Measurement data: luminance and chromaticity, Gamma, dimming, ISO contrast, BlackMura, contrast, homogeneity, color and luminance drift over time
- Measured parameters: luminance L (cd/m²); color spaces: Lxy, HSV, RGB, XYZ, sRGB, L*a*b, Luv
- Measuring range (integration times): 100µs ... 15s
- Measuring camera: 2448 x 2050 pixel, Sony CCD (2/3"; 14 bit digital)
- Camera positioning accuracy +/-0.1mm, each in x, y and z-axis
- Displays up to a size of 450 mm x 2550 mm
- Measurement report in MS Excel format with assessment



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