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Short Course Title

Advanced methods for optical display evaluation.

Abstract

The fundamental display parameters such as luminance, contrast ratio, grey scale and color are provided in data sheets for dark room conditions and room temperature. For applications, ambient light performance, lifetime, viewing angle and response time is essential. The lecture provide basic understanding as well as pitfalls and solutions.

Speaker Biography

Karlheinz Blankenbach graduated in physics at the University of Ulm, Germany, where he also received his PhD in 1988. Until 1995, he was with AEG-MIS /subsidiary of DAIMLER-MERCEDES), Germany, developing display electronics, LCDs and software. A highlight was a 3D helmet mounted monitor for stereo endoscopy founded by BMBF. Karlheinz was appointed 1995 as full professor at Pforzheim University, Germany, launching the University's Display Lab. His main R&D activities are on display measurements (mainly automotive, incl. LEDs) and display systems as well as display hard- and software resulting in many talks, papers, and projects (governmental and industrial funded). Karlheinz is member of the SID subcommittee "AUTOMOTIVE/VEHICULAR DISPLAYS AND HMI TECHNOLOGIES". He has been a member of the board of the DFF (German Flat Panel Forum) since 2001 and acts as chairman since 2011. Karlheinz is chairman of the electronic displays Conference held every year in Nuremberg, Germany.