

In a strategic partnership, LMT and TechnoTeam combine the swiftness of digital imaging systems with the accuracy of traditional goniophotometers. This provides the automotive lighting industry with enhanced goniophotometric systems which significantly reduce measurement times required for LID generation.

Cornerstone of the partnership are methods of multi-sensor based goniophotometry enabling rapid acquisition of lighting distribution data, and which are protected under jointly owned patents in Europe, USA, China and Japan.

- 100 times faster than standard goniophotometry
- Fast pulse width modulation mode
- Sensor fusion
- More than 100 installations worldwide
- Patented technology



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LMT-TechnoTeam Faltblatt Messe 2022 A4.indd 5-1

RAPID LUMINOUS INTENSITY DISTRIBUTION (LID) GENERATION HANDLING SYSTEMS & GONIOMETER **SENSORS & ACCESSORIES** FOR FRONT & REAR LIGHTING BY STITCHING $V(\lambda)$ CORRECTED IMAGES PHOTOMETER LMT SP-30 AMR **TECHNOTEAM LID TABLE** • Goniometric projection of the light distribution on the reflective screen Very fine V(λ) correction f₁'< 1 % Automatic LID Stitching • Camera recording of images at successive angles of interest • Dynamic range 1:20.000 along a horizontal axis • Software stitching of the images into complete distribution Variable integration times for Manual alignment • Photometric corrections of the panorama data modulated and non-modulated signals of DUT in X, Y, Z • Class L Photometer f_{tot} <3.0 % as Angular accuracy per DIN 5032 horizontally 0.01° • Loads up to 50 kg Width 1000 mm **STRAYLIGHT BAFFLES &** CALIBRATED REFLECTIVE SCREEN METROGON® LMT GO-R 3000 Measurement distance depending on DUT Automatic LID stitching and customer request along horizontal and • 10 m – 25 m for front lighting vertical axes • 3.16 m – 5 m for rear and signal lighting Automatic alignment of DUT • Size adapted to available space in X, Y, Z High-grade surface finishing and painting Angular accuracy 0.01° Laboratory layout and baffles customized to • Loads up to 180 kg customers request • Width 3000 mm GONIOMETER LMT GO-H 1660 **TECHNOTEAM** Automatic LID stitching along LMK CAMERA horizontal and vertical axes • 100 μ s – 15 s \rightarrow approx. 1 Mcd down to 0.1 cd Automatic alignment of • Optical resolution down to 0.005° DUT in X, Y, Z SYSTEM SOFTWARE • Repeatability ΔI [< 0.1 %]; Δx,y [< 0.0001] Angular accuracy 0.01° • Hardware control for image capture • Measuring accuracy ΔI [< 3 %]; Δx,y [< 0.0020] Loads up to 75 kg • Stitching of successive images • Uniformity ΔI [< 3 %] • Width 1800 mm • Stray light and spectral mismatch correction Measurable contrast • Report generation and further analysis with respect common 1:1000 with measurement conditions according to CIE244:2021 characteristic value f₂₅ to applicable automotive lighting standards

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