

**We bring quality
to light.**



KONICA MINOLTA Group

**Your Experts for
Light Measurement Solutions**

The Company

- ▲ Founded 1986 / 260 employees (11/2019)
- ▲ Member of Konica Minolta Group
- ▲ Light measurement solutions for
 - Display Industry
 - LED/SSL Industry
 - Automotive & Aviation Industry
- ▲ Munich site (Headquarter)
 - High-end spectrometers
 - Turnkey display measuring equipment
 - Center of excellence R&D and metrology
- ▲ Berlin site
 - Center of excellence Goniophotometers
 - Turnkey automotive (exterior) lighting measuring systems (Optronik Line)



Our Success Factors



**Ongoing
innovations in R&D**



**Top expertise in
optical measurement**



**Maximum customer
orientation**



**Focus on premium
products**



Lean organization



**Excellent metrology
know-how**

Your application - our know-how!

Display Measurement



AR/VR



Automotive
Interior Lighting



Display
Characterization

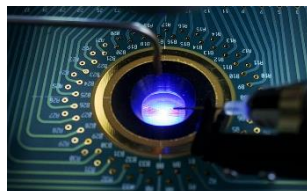


Flat Panel Display
Production

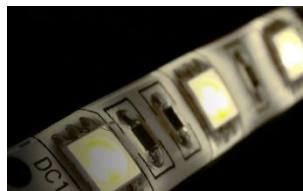


System Audit

Light Emitter Measurement



LED Production



LED / Modules



UV-LEDs



VCSEL / Laser

Lighting Products Measurement



Automotive
Exterior Lighting



Blue Light
Hazard



Solid State
Lighting

Your Applications: AR / VR Near-Eye-Displays



- ▲ Solution provider for quality assurance of AR/VR devices
 - Full characterization of Near-Eye-Displays in head mounted devices
 - Defect detection
 - Time resolved measurements and synchronization for modulated light sources

- ▲ DMS series and LumiTop systems with specific accessories for innovative AR/VR display testing

Your Applications: Automotive Interior Lighting

▲ High-precision light measurement in the vehicle interior

- 2D color measuring systems with spectroradiometric precision
- Automatic all-in-one systems for the measurement of radiation density and luminance

- Measuring equipment for the inclusion of ambient temperature and angle dependence

▲ Meeting the latest requirements of German OEM compliance guidelines

Your Applications: Displays / Smart Devices



- ▲ Proven testing solutions for display production and development of new display technologies
- ▲ DMS series for complete goniometric analysis of displays (former Autronic-Melchers)
- ▲ Market leader for automotive interior and night vision applications
- ▲ MIL-STD-3009 and MIL-L-85762A-compliant NVIS radiometers
- ▲ Gold Sustaining Member of SID (Society for Information Display)

Your Applications: LEDs / Modules



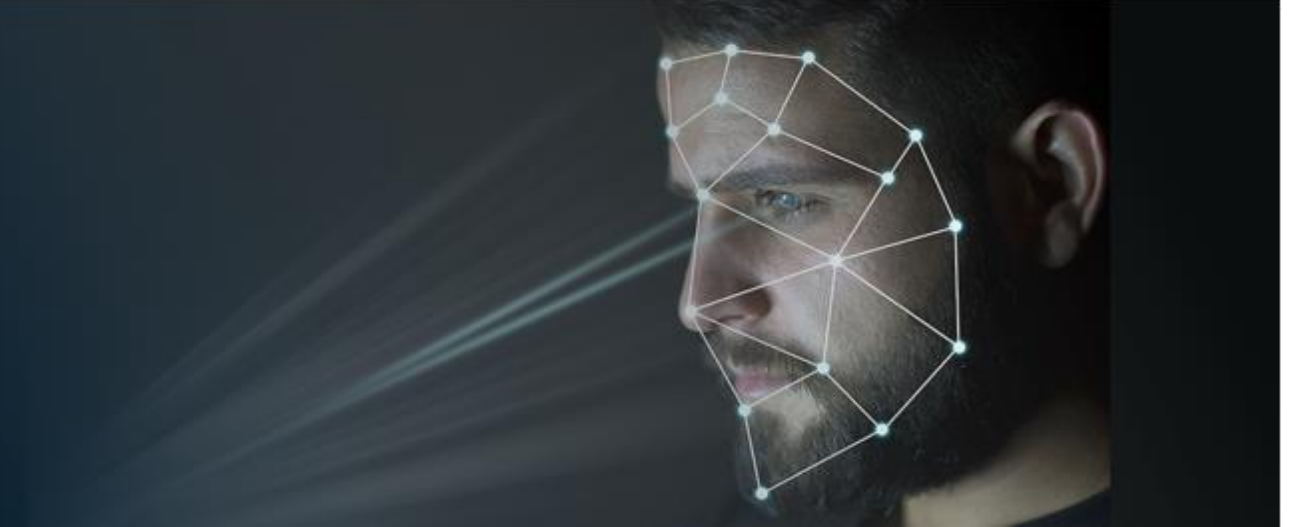
- ▲ Market and technology leader in all segments
- ▲ Turnkey solutions for R&D, quality control, and 24/7 production testing, also in the UV-A/-B/-C range
- ▲ Member of various international technical committees of the CIE
- ▲ Involved in the preparation of CIE127:2007 document (Measurement of LEDs)

Your Applications: Exterior Automotive Lighting

- ▲ Market leader for automotive exterior lighting, aerospace and traffic lighting
- ▲ Turnkey solutions to equip entire photometric labs for type approval, homologation and R&D
- ▲ Extensive range of accessories
- ▲ AMS series of high-speed scanning goniometers
- ▲ Sustaining member of GTB (Groupe de Travail de Bruxelles 1952) and National Working Group on Vehicle Lighting

Optronik Line

Your Applications: VCSEL & Laser Diodes



- ▲ Partner for technology drivers in boosting laser diodes and VCSEL applications:
 - Facial and gesture recognition in consumer electronics
 - LiDAR in the car
- ▲ All-in-one solutions that are optimally customized to VCSEL testing challenges in lab and production
- ▲ VCSEL testing cameras and high-resolution spectroradiometers

Your Applications: Solid State Lighting



- ▲ Complete lab solutions for SSL luminaires and LED modules
- ▲ Integrating spheres from 75 mm to 2000 mm diameter

- ▲ Type C goniometers for angle resolved analysis of photometric and colorimetric quantities
- ▲ CIE S 025 compliant measurement solution

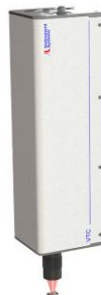
Your Applications: Spectroradiometry & Photometry



- ▲ High-end light measurement systems for R&D
- ▲ Complete equipment for universities, research institutes and high-level labs of the lighting industry
- ▲ Strong cooperation with national labs & standards developing organizations
- ▲ Joint development of stray light algorithm with NIST
- ▲ Flash lamp measurement for solar simulation



Type C goniophotometers
and goniospectrometers for
LEDs and SSL products



VCSEL Testing Camera
(VTC series)



High-end array spectrometers



Goniometric display
measurement systems
(DMS series)

Our Product Range



Integrating spheres



Pulsed VCSEL Tester
(PVT series)



Type A goniometers and
photometers for automotive
applications (AMS series)

Our References

THANK YOU

for your attention!

For more information, please contact:

▲ Our global network



▲ or Instrument Systems directly:

Munich Headquarter

Kastenbauerstraße 2
81677 Munich
+49 (0)89 45 49 43-58
info@instrumentsystems.com
www.instrumentsystems.com

Berlin

Kaiserin-Augusta-Allee 16-24
10553 Berlin
+49 (30) 349 941-0
info@instrumentsystems.com
www.instrumentsystems.com