

MAHA INNOVATION CENTER

PIONEERING SOLUTIONS FOR THE MEASUREMENT
AND TESTING TECHNOLOGY OF TOMORROW.

STILL IN
DEVELOPMENT



TRUELIGHT MLT

DIRECT PROJECTION FOR
MODERN LIGHTING TECHNOLOGY.

made by MAHA
 made
in
Germany

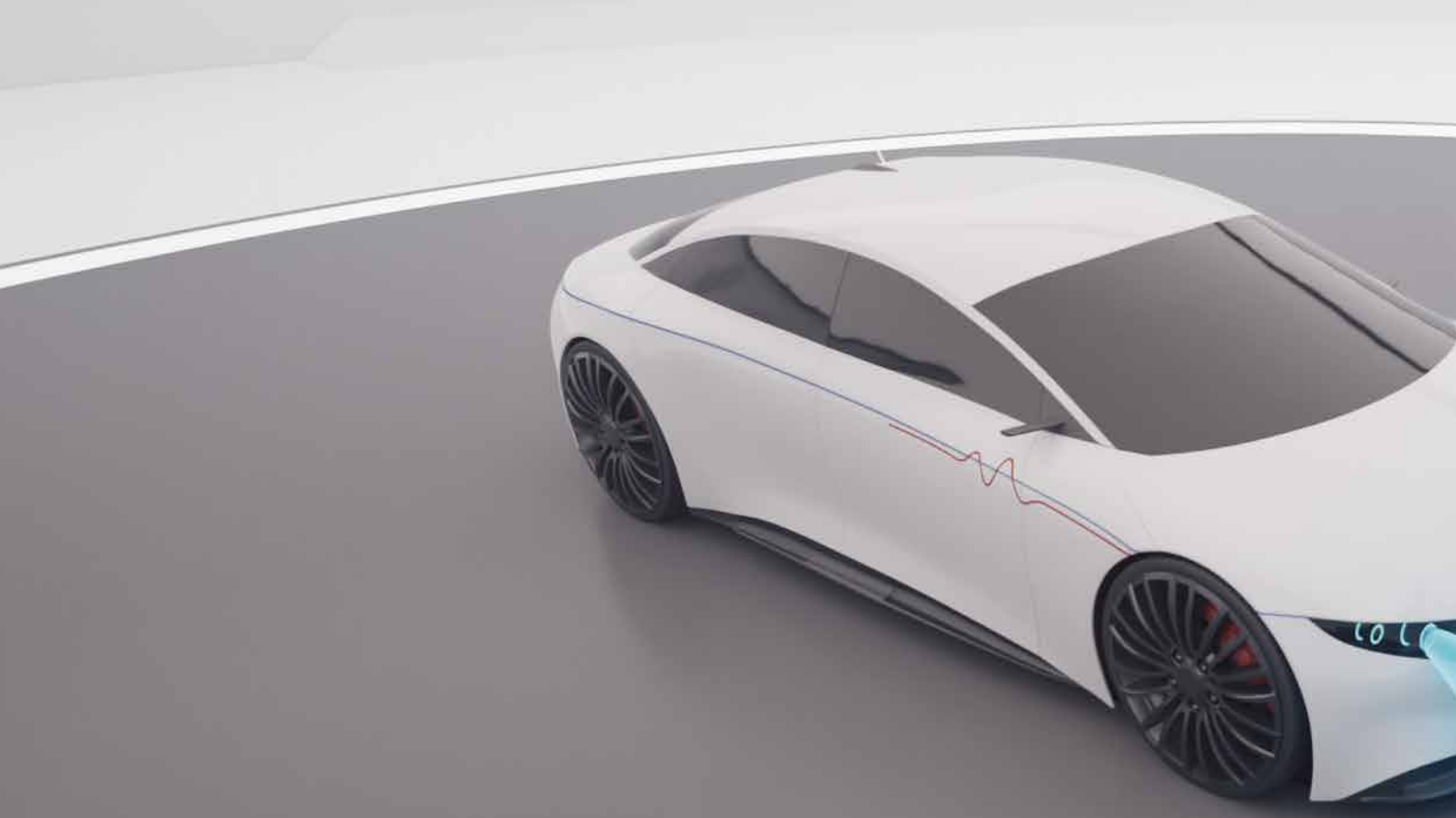


LIGHT IS BECOMING COMPLEX.

Halogen, xenon, LED, LED matrix, laser... There have been several generations of headlight technology over the last two decades. But the technology used to test it hasn't kept pace with these developments.

Traditional headlight testers have applied the same principle for 20 years: a Fresnel lens, a ground-glass screen and a rear-mounted camera. It's a method that's certainly well proven – for standard headlights, at least. But for LED matrix, laser and future headlight technologies, the traditional principle is increasingly reaching its physical limits.

Complex light segments, switched individually, require high-precision capturing.



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TRUELIGHT MLT. DIRECT PROJECTION FOR MODERN LIGHTING TECHNOLOGY.

FEWER DISRUPTIVE VARIABLES, SHARPER MEASUREMENT.

- **Scattered light at optical intermediate stages:** The ground-glass screen and Fresnel lens create reflections – which can blur fine boundaries between light and dark.
- Modern matrix headlights require measurement technology that eliminates these disruptive variables – making the test result precise, all the way to the edges.

DIRECT PROJECTION.

The Fresnel lens projects the light directly onto the CMOS sensor. No optical intermediate stage, no image loss.

COMPACT DESIGN.

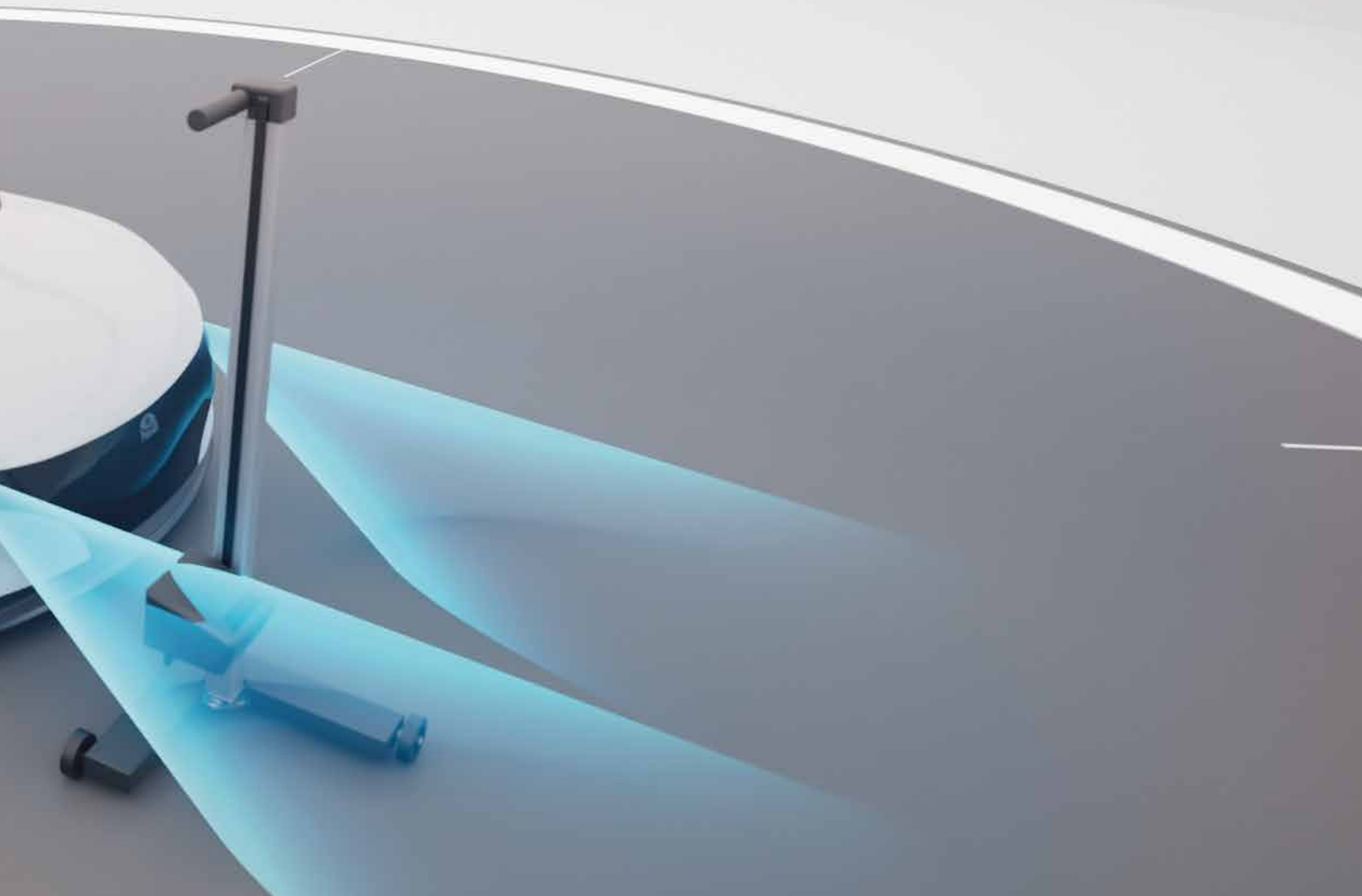
The direct measurement method makes the light collecting box significantly smaller and lighter. The more compact unit makes everyday use in the workshop easier – and fits more readily into automated test lanes.

NEW HDR CMOS CAMERA.

The new HDR CMOS camera noticeably increases measurement accuracy – and analyses the results in real time, right on the unit.

OPTIMISED FRESNEL LENS.

The optimised lens largely removes disruptive variables such as blue and red fringing – keeping the measurement accurate.



THE TECHNOLOGY AT A GLANCE.

DIRECT PROJECTION ONTO CMOS.

The HDR CMOS camera captures the headlight beam directly – with no ground-glass screen and minimised scattered light.

OPTIMISED FRESNEL LENS.

Removes disruptive variables to enable maximum measurement accuracy.

PREPARED FOR FUTURE SYSTEMS.

The TrueLight MLT sets new standards in measurement accuracy – and is thus perfectly prepared for future headlight systems.

REAL-TIME ANALYSIS.

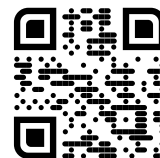
The new HDR CMOS camera analyses results in real time together with the control electronics. This noticeably shortens the headlight testing time – for every single vehicle.

COMPACT DESIGN.

A reduced weight and a more compact light collecting box. Ready for use in workshops, testing organisations and OEM environments.



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