

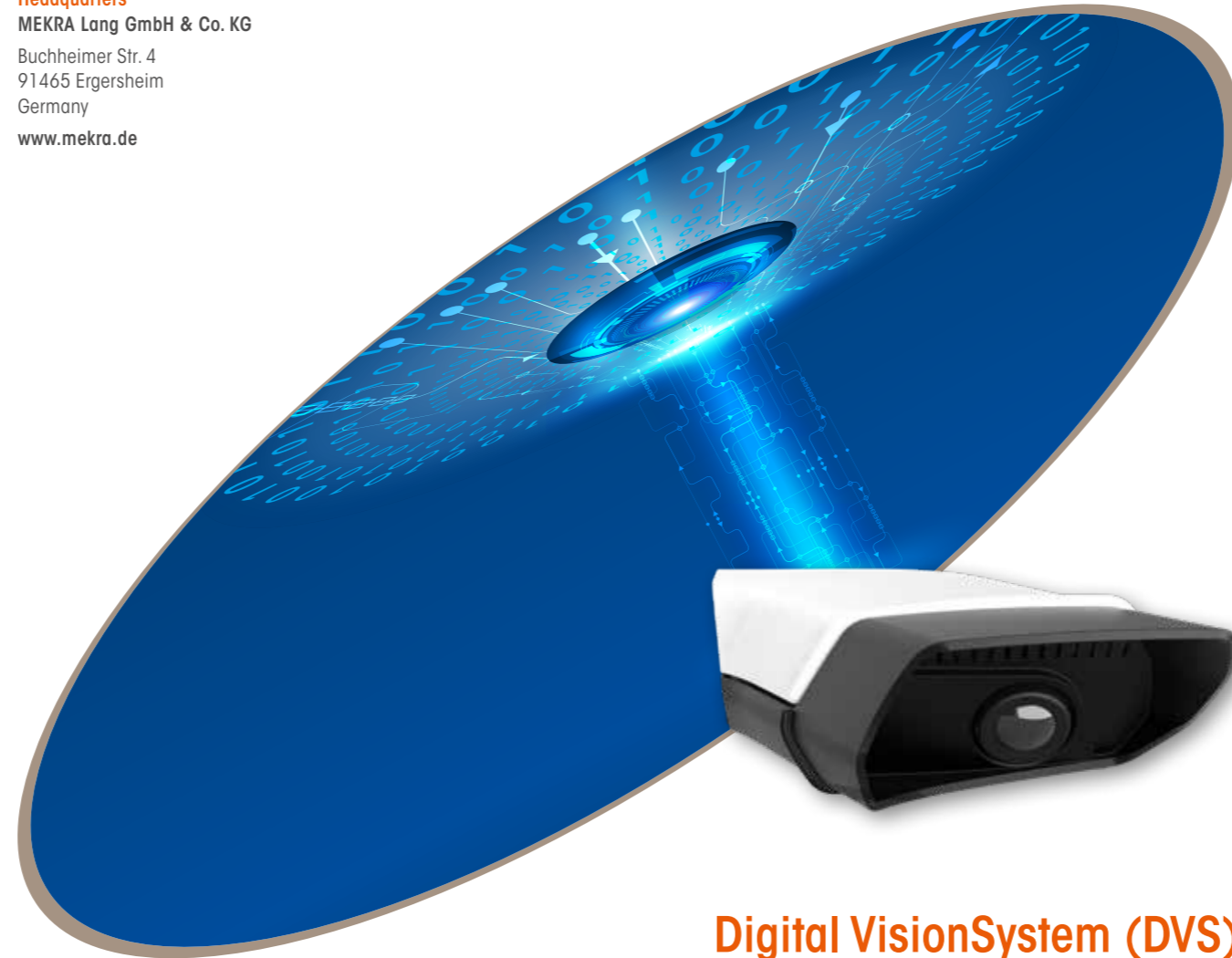
mirror replacement



Contact:



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regular mirror



Perfect vision
Day & Night



Perfect vision
during rain



Global
production



Improved
aerodynamic

Still in development; design and specifications subject to change.

Excellent Indirect Vision High-End Cameras

We will reach the next evolutionary step in vision systems by replacing all the mirrors of your vehicle with an electronic vision system. A completely new HDR-camera, improving your situational awareness and sight around your vehicle. A specially invented lens provides an image of the vehicle edge without almost any distortion. More safety for you and other people in traffic around you. See the most dangerous spots at a glance to protect others, reduce the risk of damage and improve fuel efficiency at the same time.

Digital VisionSystem (DVS)

The next step in the evolution of sight

MEKRA Lang - passion for excellence.

Last Update: October 2019 | Contents subject to change

Off-Axis Concept Integrated Optical Features

When it comes to commercial vehicle applications, our DVS offers optimized characteristics throughout, starting with its optical features. A lens placement exactly in the midst of the sensor results in optical distortions at the outer edges of the image displayed. However, in order to maneuver the vehicle safely, the driver needs to see a straight vehicle edge as a reference. The revolutionary off-axis concept enables us to shift the optical axis, thereby taking maximum advantage of the undistorted area of the lens. This generates a straight vehicle edge just by optical means and eliminates the need for performing time-consuming post-processing tasks. The utilization of the entire sensor area is optimized and the user can freely choose the desired view.

Optimized Airflow

Aerodynamics

Form follows function! The integration of top-quality automotive components aligns with a perfect blend of outstanding aerodynamic characteristics and individual style.

Aeroacoustics

Throughout the form-finding process our designers took into account aerodynamically generated and propagated noise.

Soiling Control

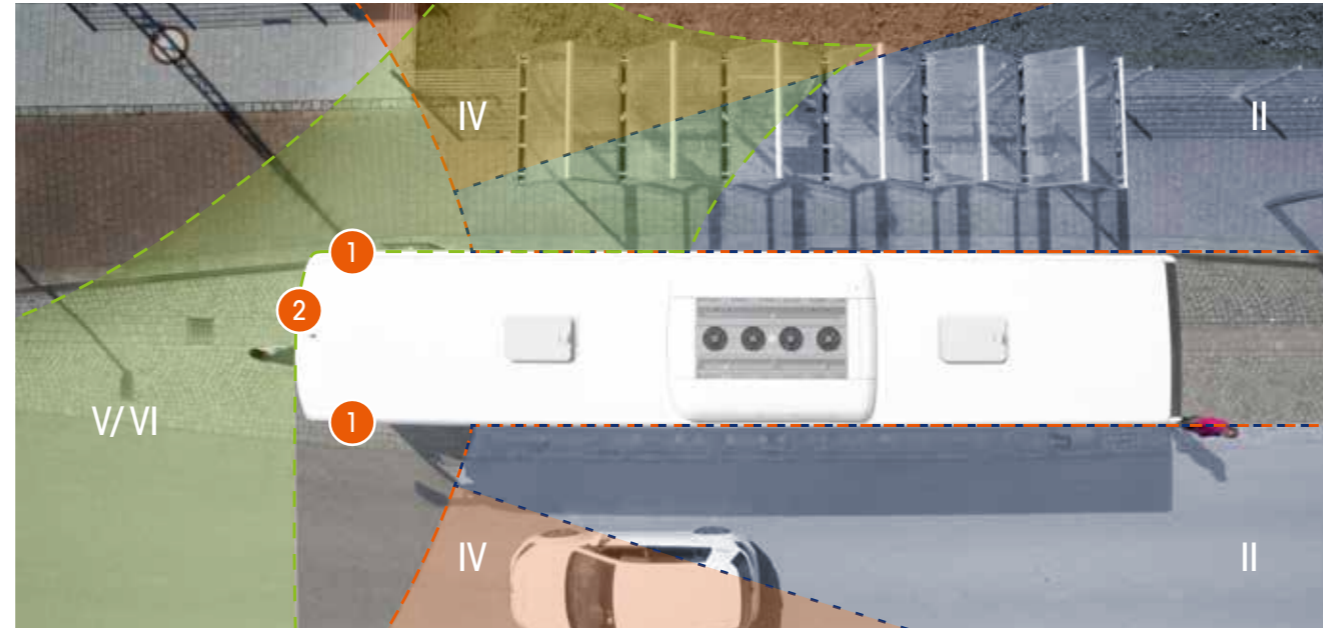
An intelligent airflow control system diverts and eliminates dirt particles and water, thereby facilitating unobstructed visibility without the need for additional mechanical components.

Multiple View Design

Our system is unique because it captures both class II and class IV fields of vision with just one lens. This enables us to generate a variety of different layouts and display solutions while complying with relevant legal regulations and accommodating individual customer requirements. One architecture, many solutions – for our customers.

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Hydrophobic Lens

By exposing the optical lens to a chemical vapor deposition (CVD) process it is covered with several coatings of varying thickness, rendering the lens surface hydrophobic and therefore water-repellent. This ensures excellent visibility even in adverse weather conditions. It also protects the surface from smudges such as fingerprints and makes it easy to wipe off dirt and debris. As an additional benefit, this scratch-resistant layer helps to protect the lens surface from mechanical damage. On the whole, the sophisticated coating increases both the camera's durability and its usability considerably.