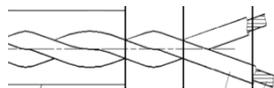


Networking Touareg new vehicle 2010

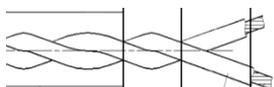
• Bus line colours at Volkswagen

Drive unit CAN 500 Kbaud



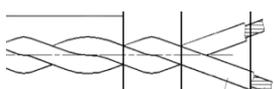
Hi orange / black
Lo orange / brown

Extended CAN 500 KBaud



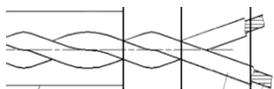
Hi orange / blue
Lo orange / brown

Comfort CAN 500 KBaud



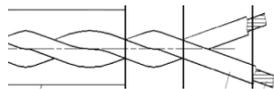
Hi orange / green
Lo orange / brown

Chassis CAN 500 KBaud



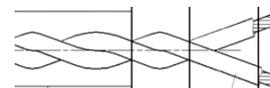
Hi orange / red
Lo orange / brown

Display/Operation CAN
including instrument
cluster 500 kBaud



Hi orange / violet
Lo orange / brown

FlexRay 10 MBaud



Bus positive - pink
Bus negative - green

MOST 21 MBaud



In & out – fibre-optic cable,
orange

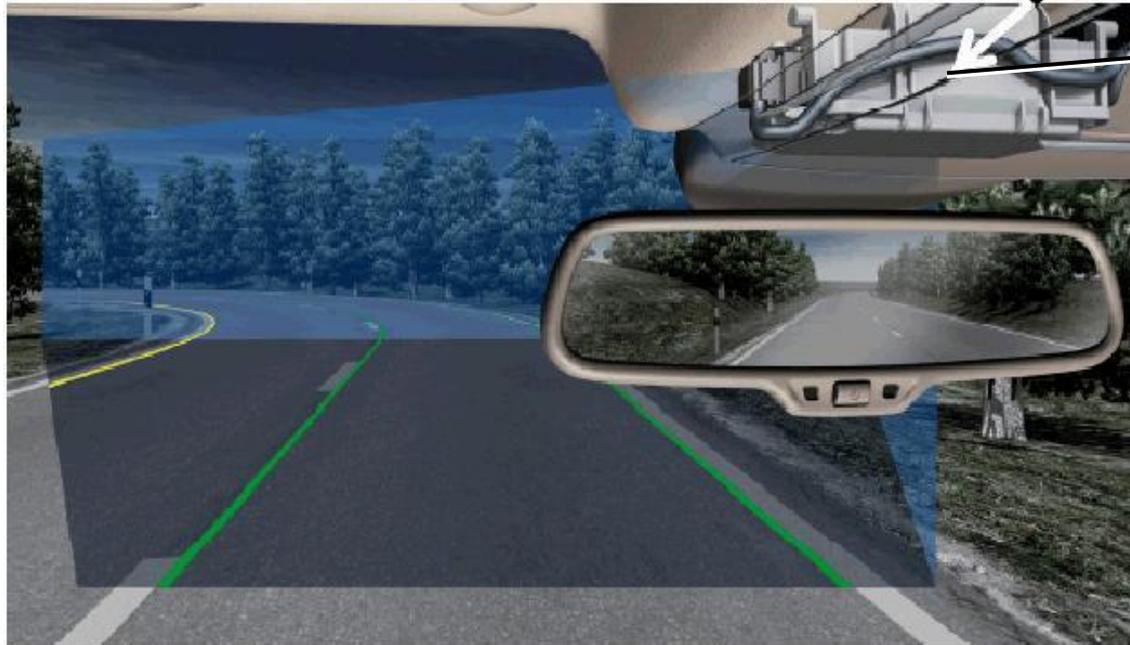
LIN 19.2 kBaud


Violet / white

Driver assistance systems

- Multipurpose camera system for assistance systems

Diagram shows the installation position of the camera system and of the control unit for image processing. The coverage range of the camera is highlighted in colour.



Control unit for
camera J852

Specifications of the camera:

Resolution: 1024 x 512 pixels

Coverage range: colour camera

Visual range: > 500 m

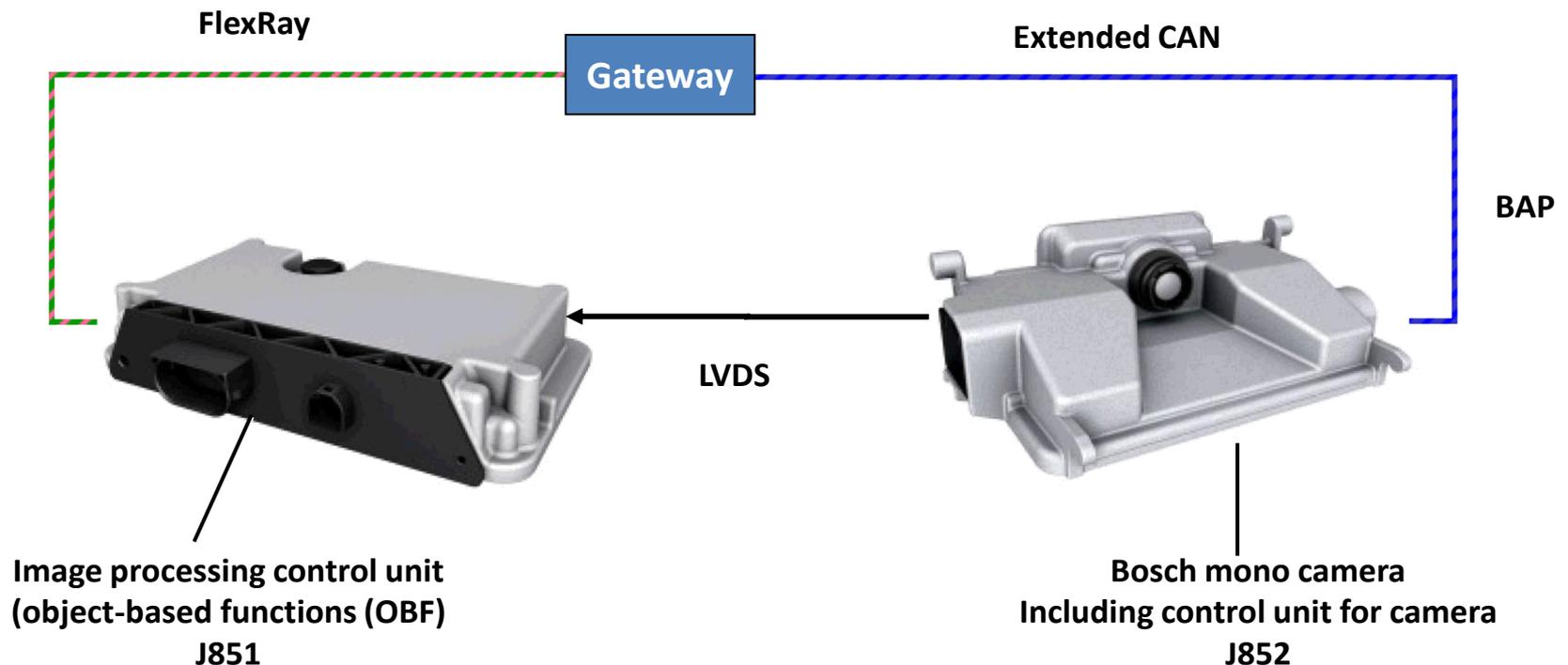
Aperture angle horizontal: 42°

vertical: 21°

Driver assistance systems

- Multipurpose camera system for assistance systems

2-BOX variant



Driver assistance systems

- Multipurpose camera system for assistance systems

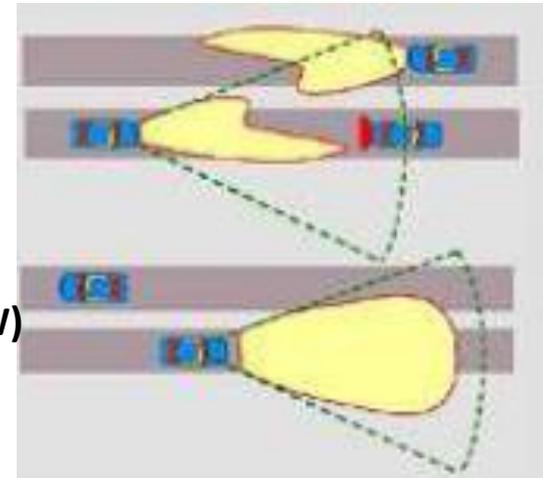


- Lane Departure Warning (LDW)

- Object detection for e.g.
 - Braking distance reduction (AWV3)
 - Automatic emergency brake (ANB)



- Light functions
 - Dynamic Light Assist (DLA)
 - Sliding headlight range (GLW)

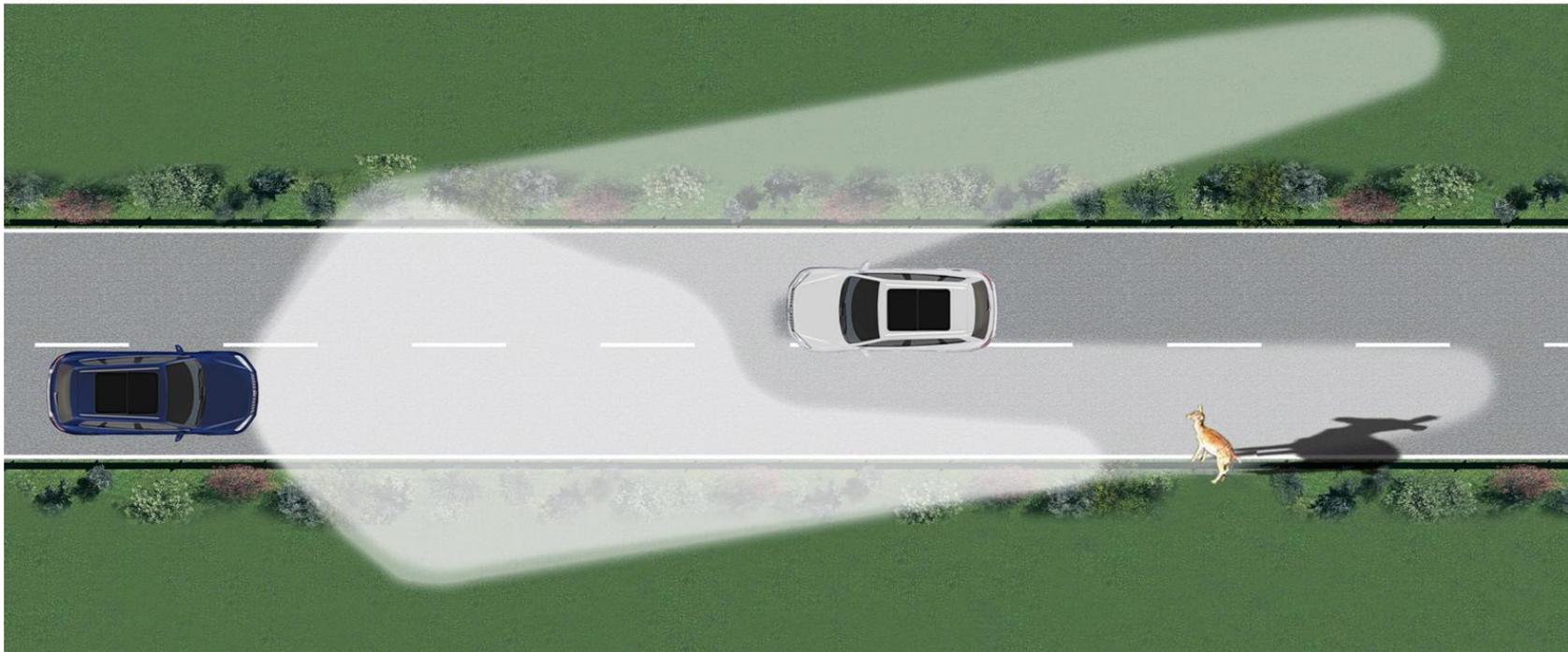


- Traffic sign display (VZA)

Driver assistance systems

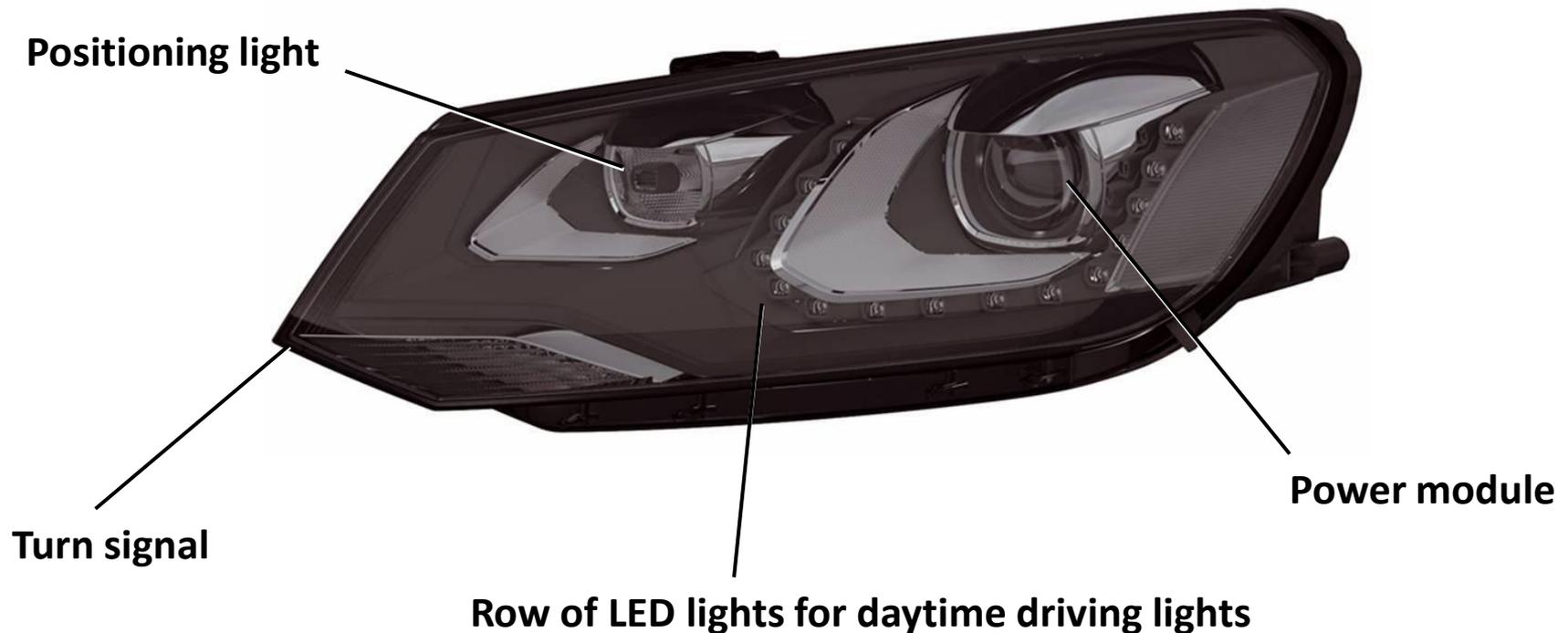


- Dynamic light assistant



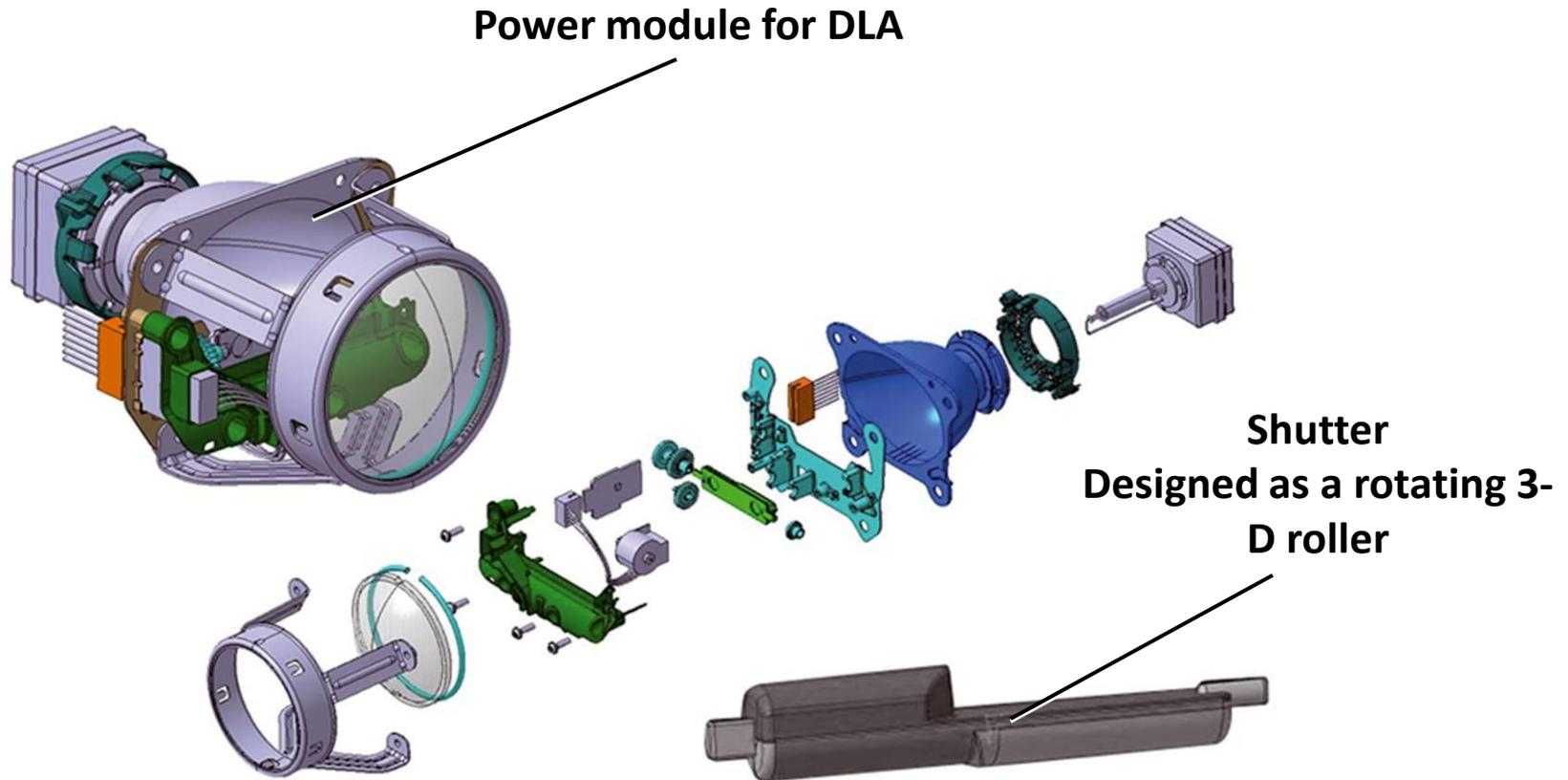
Driver assistance systems

- The headlight for dynamic cornering light with and without DLA



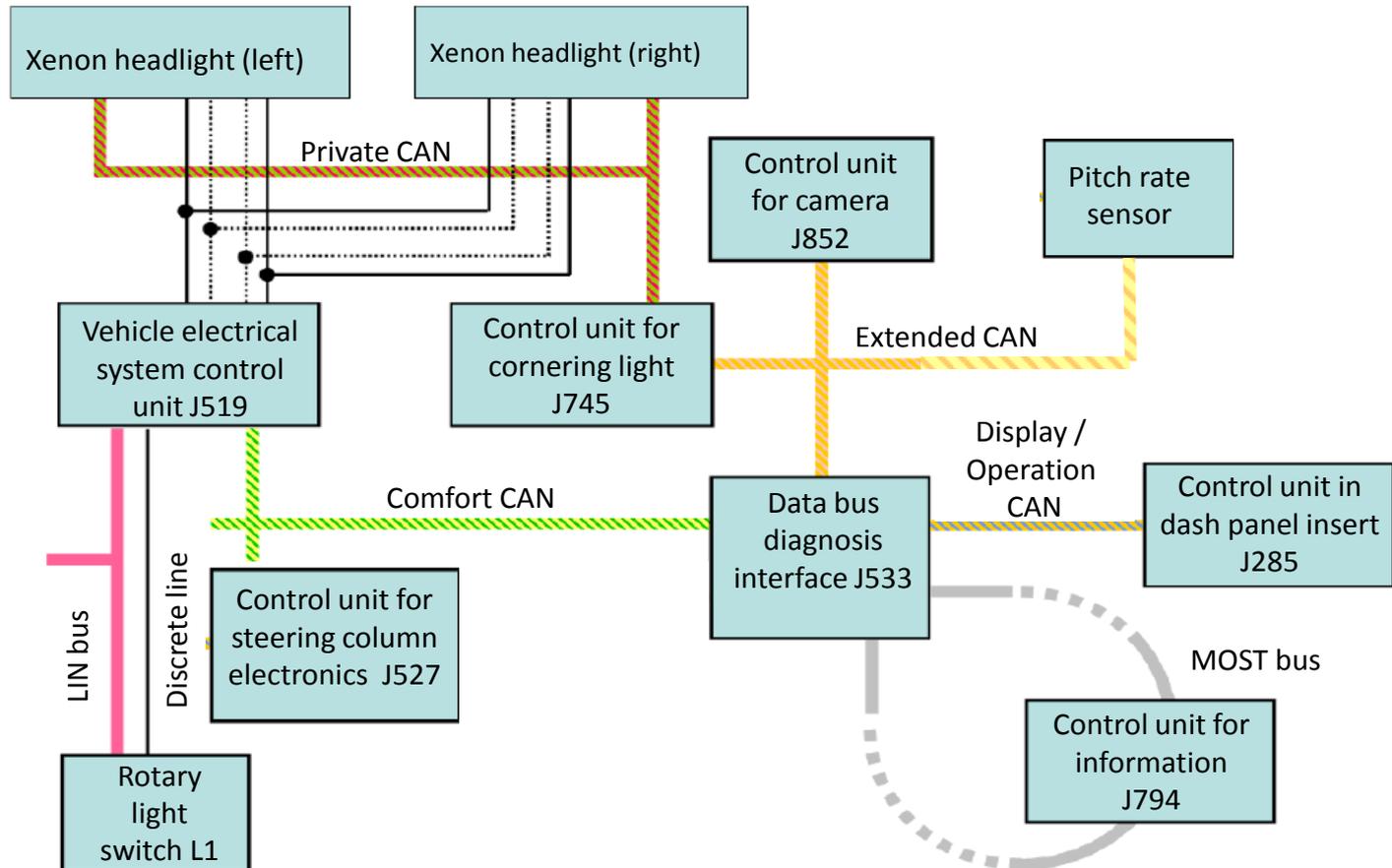
Driver assistance systems

- The headlight for dynamic cornering light



Driver assistance systems

- DLA function diagram



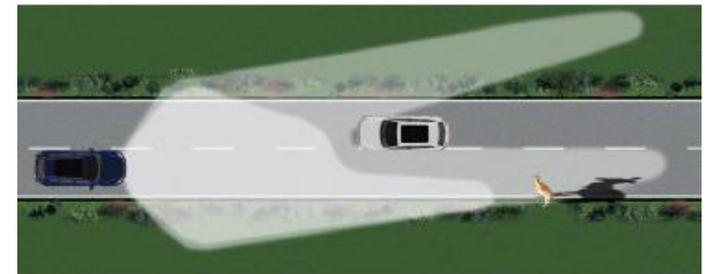
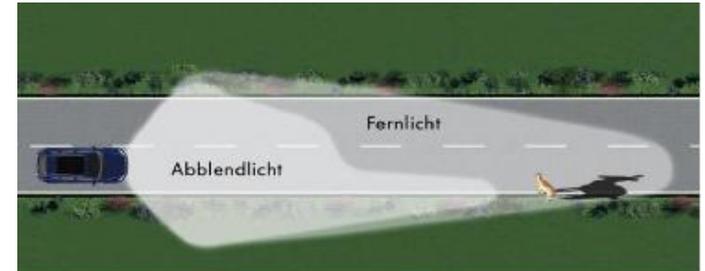
Driver assistance systems

- Dynamic light assistant

Dynamic Light Assist. This integrates the familiar systems cornering lights, dynamic headlight range control, sliding headlight range and the main beam assistant.

Switch-on conditions:

- Light switch to position "Auto"
- Main beam headlights actuated
- DLA Assist is switched on
- Darkness
- Speed > 60 km/h

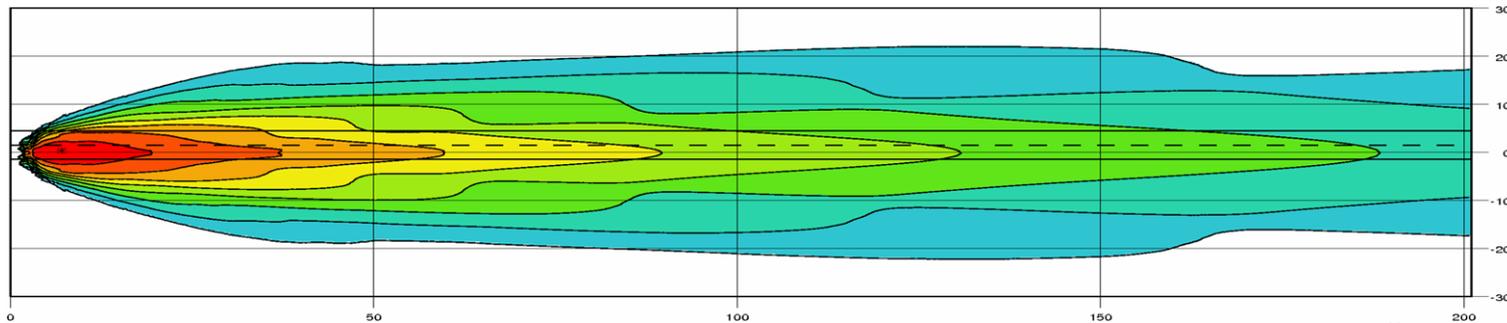


Change in light distribution

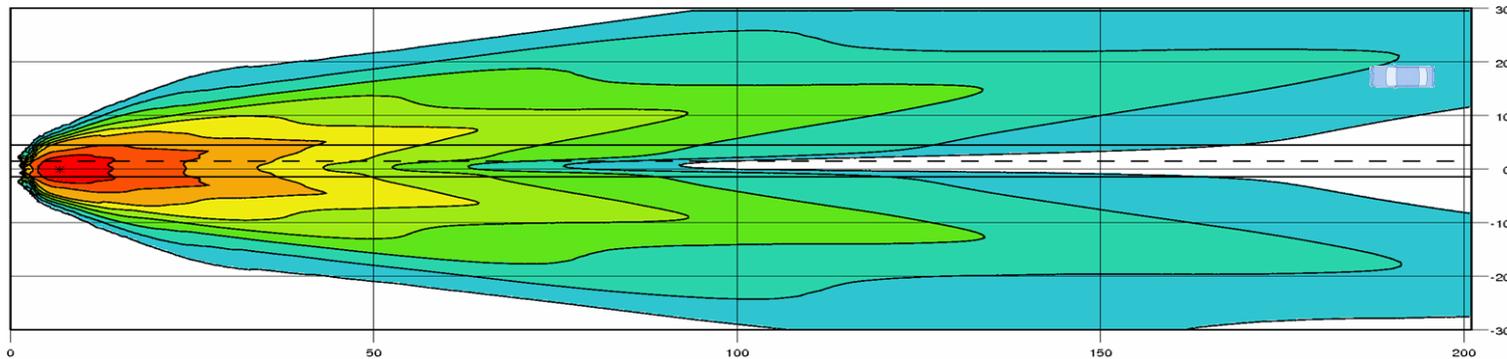
Driver assistance systems

- Dynamic light assistant

Picture 1: illumination without object on the other side of the road



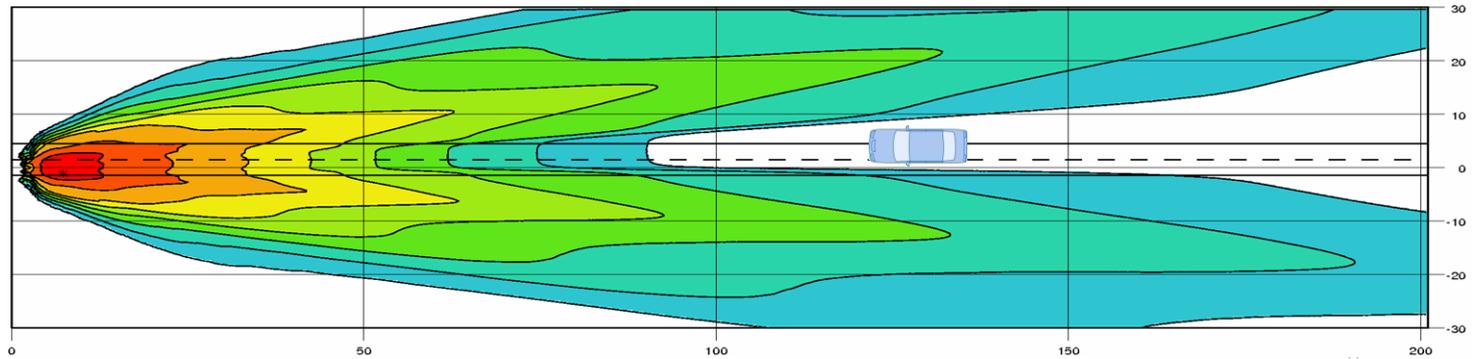
Picture 2: illumination with object on the other side of the road at a great distance



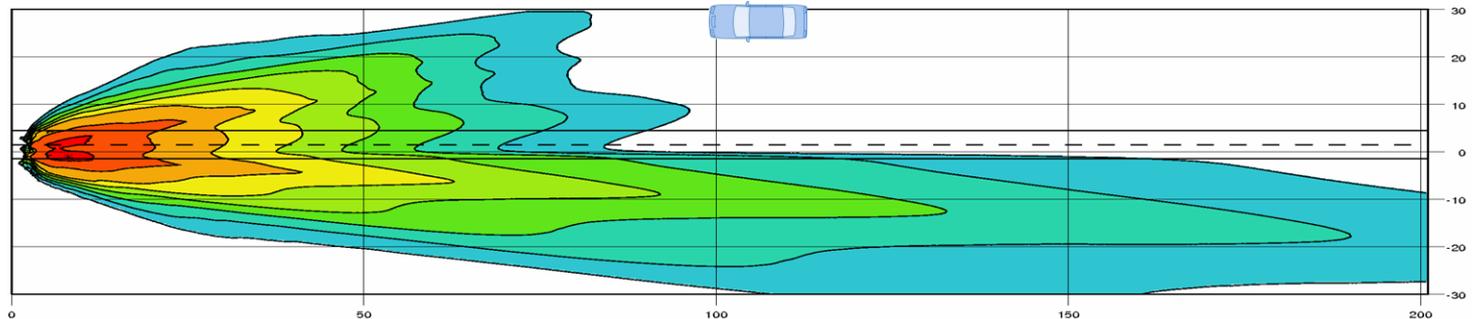
Driver assistance systems

- Dynamic light assistant

Picture 3: illumination with object on the other side of the road at a short distance

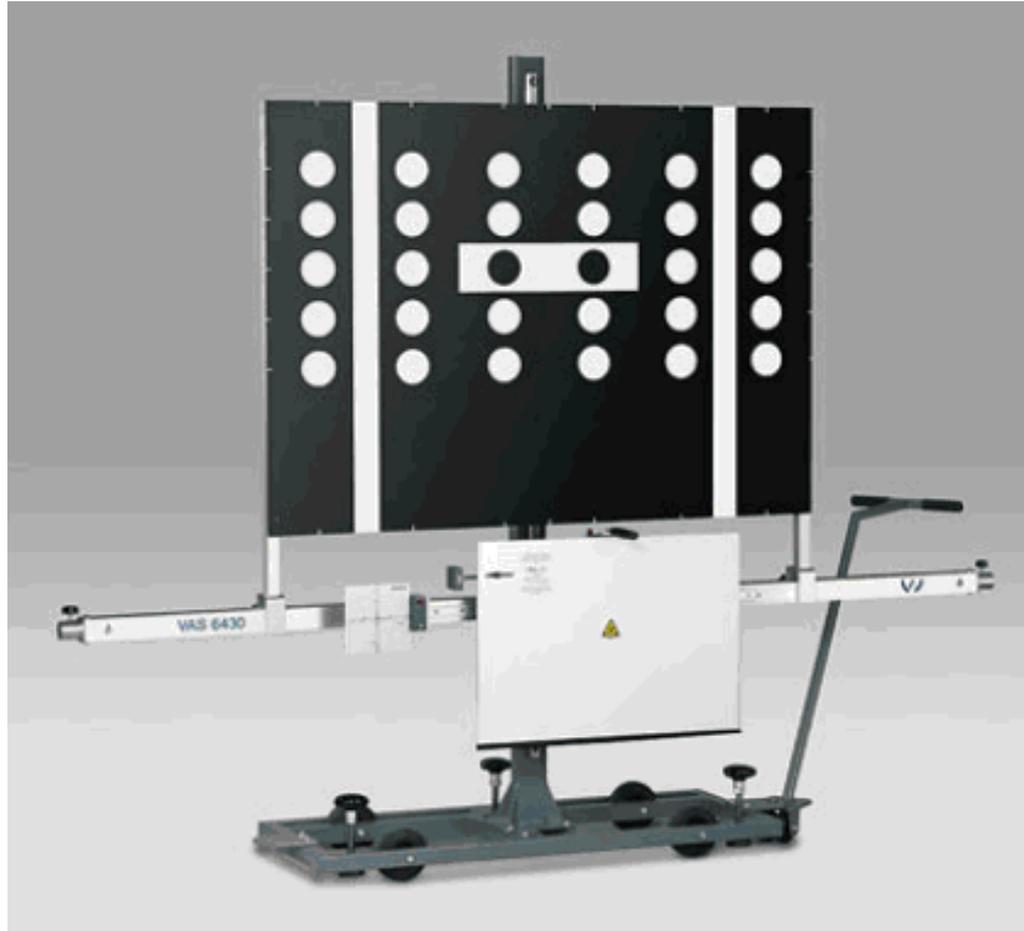


Picture 4: illumination on passing an object on the other side of the road



Driver assistance systems

- Dynamic light assistant



Device for adjusting the camera corresponds to the setup for the calibration of the Lane Departure Warning (LDW)