



# Combiner Head-up Display

## Product description

The Combiner Head-up-Display (CHUD) is used to project a virtual image into the driver's field of view by means of an optical system. The most important vehicle information can be displayed directly on the screen:

- › Warning messages
- › Velocity/rotational speed
- › Navigation
- › Advanced Driver Assistance Systems
- › Environment sensor systems

The choice of information displayed on the screen can be adapted to the customers' requirements. Our CHUD is a customer specific product, which is adapted individually, depending on the installation space.

## Variations

Information for projection via Bus, for example CAN or information via graphic interfaces.

## Implementation options

- › Head-Up: Display above eye height
- › Head-Down: Display below eye height

## Application fields

- › Commercial vehicles
- › Agricultural/construction machines
- › Railway vehicles
- › Planes

## Advantages

- › Independence of angle and geometry of the windscreen
- › Retrofit solution
- › High safety and comfort: No changes to the drivers' line of sight. Minimal change of focus (street vs. displayed information) - reduction of danger to the blind spot for the driver

## Main features

- › Virtual image
- › Increased contrast
- › Display resolution: 480 x 240 (alternative 800 x 480)
- › Image brightness: up to 10,000 cd/m<sup>2</sup>
- › Automatic brightness control
- › Projection distance: depending on implementation
- › Image size: depending on implementation
- › Volume: depending on image size and projection distance
- › Kinematics: movement of coverage and combiner screen either manual or motorized
- › Individual customer specific symbols and images configurable
- › Description fields possible
- › Temperature surveillance

