**Product Description**

The Innotruck Head-up-Display (CHUD) is a development of Continental which was conceived for the use in utility vehicles. The Head-up-Display is a customer-specific product, it can be developed in different price ranges.

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 onto the screen:

- Warning message
- Velocity/rotational speed
- Navigation
- Advanced Driver Assistance Systems
- Environment sensor system

The choice of information displayed on the screen can be adapted to the customer’s requirements.

**Main Features**

- Individual symbols and pictures
- Description fields possible
- Automatic brightness control
- Warping correction
- Temperature monitoring
- Flashable via Ethernet
- Vehicle data via CAN
### Mechanical Specification
- Microstep Ratio of motor driver: 16
- Motor Step Width: 1.8°
- Gear Ratio of speed reduction gear: 60
- Default combiner angle: 55°

### Optical Specification
- Virtual image size: 364 mm x 159 mm
- Virtual image distance: 2600 mm
- Combiner size: 270 mm x 228 mm
- Eyebbox size: 180 mm x 150 mm
- Number of picture generators: 1 x 3.1"
- Number of mirrors: 1
- Digital warping correction: Y

### Electrical Specification
<table>
<thead>
<tr>
<th></th>
<th>Version 1</th>
<th>Version 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>12 V</td>
<td>24 V</td>
</tr>
<tr>
<td>Amperage</td>
<td>1.2 A</td>
<td>0.6 A</td>
</tr>
</tbody>
</table>

### Interfaces
- 1 x Ethernet
- 1 x RS232
- 1 x RS485
- 2 x USB
- 2 x CAN, High Speed:
  - CAN 2.0A
  - Identifier: 11 Bit
  - Baud Rate: 100 k, 125 k, 250 k, 500 k, 1000 k
  - Sample Point: 87%
  - SJW: 1