Beissbarth MLD 815 –
Digital headlight measurement and adjustment

- TÜV-certified
- Cross and alignment laser
- CMOS camera for real-time image processing
- Integrated printer

Headlight Testing
Intelligent, fast and precise Digital head

- TÜV-certified (prototype technical release)
- Cross and alignment laser for precise positioning
- CMOS camera for real-time image processing
- Integrated printer
- Test results in real time
- Comparison between measured and limit values and unambiguous red/green evaluation
- Precise definition of the cut-off line without disrupting blue fringe

**TÜV certificate in line with StVZO § 50**
HTD 815 is TÜV-certified by prototype technical-release examination in accordance with the directives for testing headlight adjustment/test equipment (German Road Traffic Type-Approval Law StVZO §50 paragraph 5).
TÜV certificate No. TPN 10010 1161
light testing with MLD 815

• Digital LCD color display (5.7”) with 262,000 colors
• Touch-screen function (operation with gloves is possible)
• Intuitive and simple user guidance
• Visual and acoustic signals support the measurement procedure
• Menu featuring 7 languages
• Operating panel can be rotated by 180° for different areas of application (e.g. for general inspections or for the adjustment at the workshop)
• Independent thanks to battery operation

• All types of light sources (xenon, bi-xenon, LED, bi-LED, halogen)
• All types of vehicles (passenger cars, trucks, motorcycles)
• All types of headlights (main headlights, fog lamps, auxiliary lamps)
• Measuring height (optical center): 24 - 145 cm
• Measured values: Horizontal and vertical deviation (pitch angle), intensity, roll angle, yaw angle
• Digital precision: +/-1 cm on a 10-meter measuring distance

COMS camera with high resolution and frame rate

Integrated printer

Operating panel can be rotated by 180° (operation with gloves is possible)
Laser precision for accurate measurement

Top precision thanks to laser technology

- The alignment laser on the upper part of the MLD 815 column helps aligning the light box with the vehicle
- The cross laser eases alignment with the headlight particularly in case of LED and xenon lighting systems
- High-quality optics with large, scratch-proof glass lens (Ø 230 mm)
Leveling at the test area in accordance with the current directive

- **German Road Traffic Type-Approval Law StVZO § 29**
  - **general-inspection headlight-test directive**
  - MLD 815 alignment (leveling) on the test area complies with the latest requirements placed on test areas in workshops.
  - Two-dimensional level for the horizontal leveling of the light box
  - Adjustable 3-wheel trolley
  - Adjustable rail system (3m) for above and in-ground installation as optional accessory
State-of-the-art design for precise working

- Lightweight design thanks to the finite element method (FEM)
- Super-simple height adjustment due to maintenance-free counterweight system with quadruple-mounted rollers
- Easy guiding thanks to handles on the column (upper handle) and at the light box (lower handle)

- Column can be turned 30° on the low-friction bush bearing
- Protected against dust and splash water
- Top mechanical stability for reliable transverse movement
- Optional height-measurement sensor

The height-measurement sensor (optional) automatically measures the installation height of the headlight and shows the measured height on the display.
Beissbarth LTB 100: Levelled test bay

Headlight test bay complying with
German directive and OE specifications

Clearly defined tolerances and dimensions:
• The areas must not exceed the maximum allowed inclination of 1.5 % and must be aligned.
• The headlight-tester set-up area must not exceed the max. unevenness of ± 1 mm on a 1-meter distance.
• The allowed unevenness of the tracks depends on the length of the test bay (see graphic).

Workshop floors often feature a significant slope and unevenness. The LTB 100 levelled test bay meets all requirements the German general-inspection headlight-testing directive on rider 4, § 29 StVZO places on the test bay.

LTB 100 at a glance:
• Suitable for subsequent installation onto the workshop floor
• Modular construction (4m, optionally extendable to 6m)
• Adjustable height compensation: 0 to 40 mm
• Maximum allowed axle load: 2.5 t
• Suitable for installation onto workshop pits
  (in combination with the optional pit drive-in protection)
• Extendable for drive-thru solution (optional)
• Compensation and fine adjustment by means of 4 wheel set-up elements (4-meter version)
• Test-system length above ground: 4,269 mm
  (4 m version incl. drive-on ramps)

LTB 100: Patented design for the 0 to 40 mm height adjustment for axle loads of up to 2.5 t

Scope of delivery Order number
LTB 100 (4 m)* 1 692 100 030
Extension 2 m 1 692 100 031

Special accessories
Set of drive-on ramps 1 692 100 032
Pit drive-in protection (4 m) 1 692 100 033
Pit drive-in protection extension (2 m) 1 692 100 037

Service/assembly accessories
Service kit (assembly pattern; supporting pliers)** 1 692 100 034
*Screw anchors for the assembly are not included.
**Accessories can be reused for additional LTB units.

General prerequisites concerning the properties of the foundation and the ground:
Max. difference in height on 4 m/6 m: 0 – 40 mm
The ground must comply with Eurocode 2, DIN EN 1992
• Concrete quality: at least C20/25 (140 mm)
• Please note the manufacturer specifications
## Technical data MLD 815

<table>
<thead>
<tr>
<th>Light intensity</th>
<th>Candela</th>
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</thead>
<tbody>
<tr>
<td>Illumination</td>
<td>0 - 150.000 Lux/1 m</td>
</tr>
<tr>
<td></td>
<td>0 - 240 Lux/25 m</td>
</tr>
<tr>
<td>Orientation (in %, cm, °)</td>
<td></td>
</tr>
<tr>
<td>Low beam</td>
<td>0% - 10% (0 - 1.000 mm)</td>
</tr>
<tr>
<td>High beam</td>
<td>0% - 10% (0 - 1.000 mm)</td>
</tr>
<tr>
<td>Top and bottom, right and left</td>
<td>0% - 6% (0 - 600 mm)</td>
</tr>
<tr>
<td>Measuring height (optical center above ground level)</td>
<td>240 - 1.450 mm</td>
</tr>
<tr>
<td>LCD color screen</td>
<td>5,7&quot;, 262.000 Farben</td>
</tr>
<tr>
<td>CMOS camera</td>
<td>640 x 480 VGA, Bildrate 60 fps</td>
</tr>
<tr>
<td>Laser class</td>
<td><strong>3R</strong></td>
</tr>
<tr>
<td>Plug voltage (input voltage of the battery charger)</td>
<td>100 - 240 V / 50 - 60 Hz</td>
</tr>
<tr>
<td>Supply voltage (integrated battery)</td>
<td>12 V</td>
</tr>
<tr>
<td>Operating temperature (°C)</td>
<td>+ 5 bis + 45°C</td>
</tr>
<tr>
<td>Weight</td>
<td>35 kg</td>
</tr>
<tr>
<td>Size of the device (W x D x H)</td>
<td>660 x 695 x 1.780 mm</td>
</tr>
</tbody>
</table>

### Order numbers

- MLD 815 with printer: 1 692 104 323

### Optional accessories

- Rail 3 m (incl. wheels and installation kit): 1 692 105 080
- Rail extension 1.5 m (guide rail, sliding rail and installation material): 1 692 105 112
- Height-measurement sensor: 1 692 105 066
- Dust protective: 1 692 105 079

Subject to technical modification and changes to scope of delivery.
Pictures may sometimes show special accessories or similar versions.
Please contact your Beissbarth dealer for a binding up-to-date quotation.