

Beissbarth MLD 815 – Digital headlight measurement and adjustment

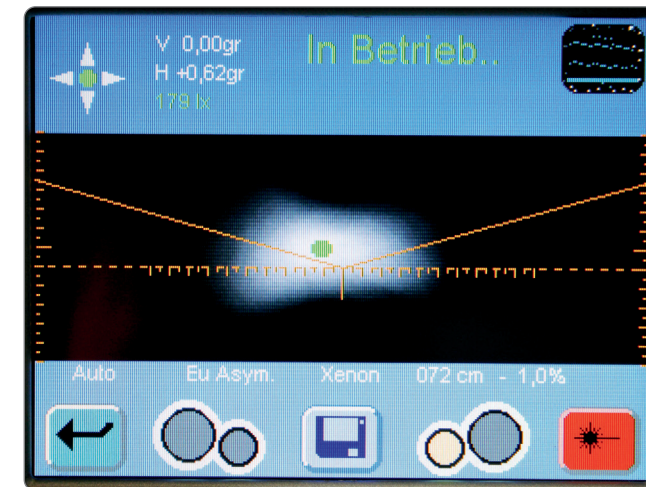


- TÜV-certified (prototype technical release)
- Cross and alignment laser
- CMOS camera for real-time image processing
- Integrated printer

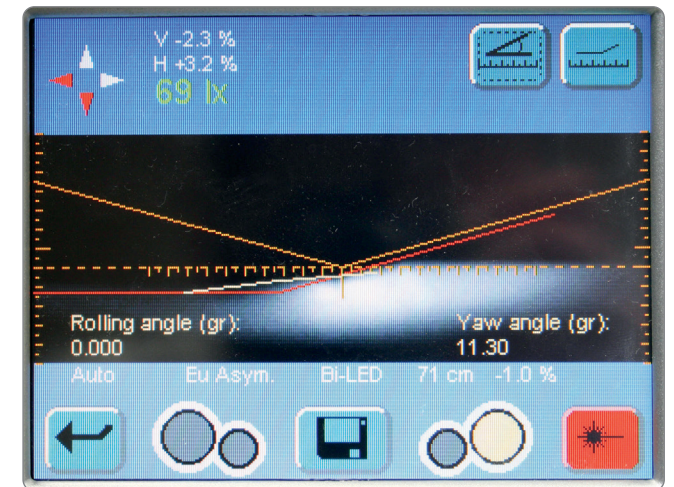
Digital headlight testing with MLD 815: intelligent, fast and precise



Interactive color touch-screen display



Images displayed in real time



- TÜV-certified (prototype technical release*)
- Cross and alignment laser for precise positioning
- For all light sources and glare-free high-beam systems (DLA**, Matrix)
- 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: MLD 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).

** Dynamic Light Assist

- Digital LCD colour display (5.7") with 262,000 colours
- 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 operation thanks to battery
- All types of light sources (xenon, bi-xenon, LED, bi-LED, halogen)
- Glare-free high beam (with MLD 815 Matrix/DLA, order number 1 692 104 329)
- 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

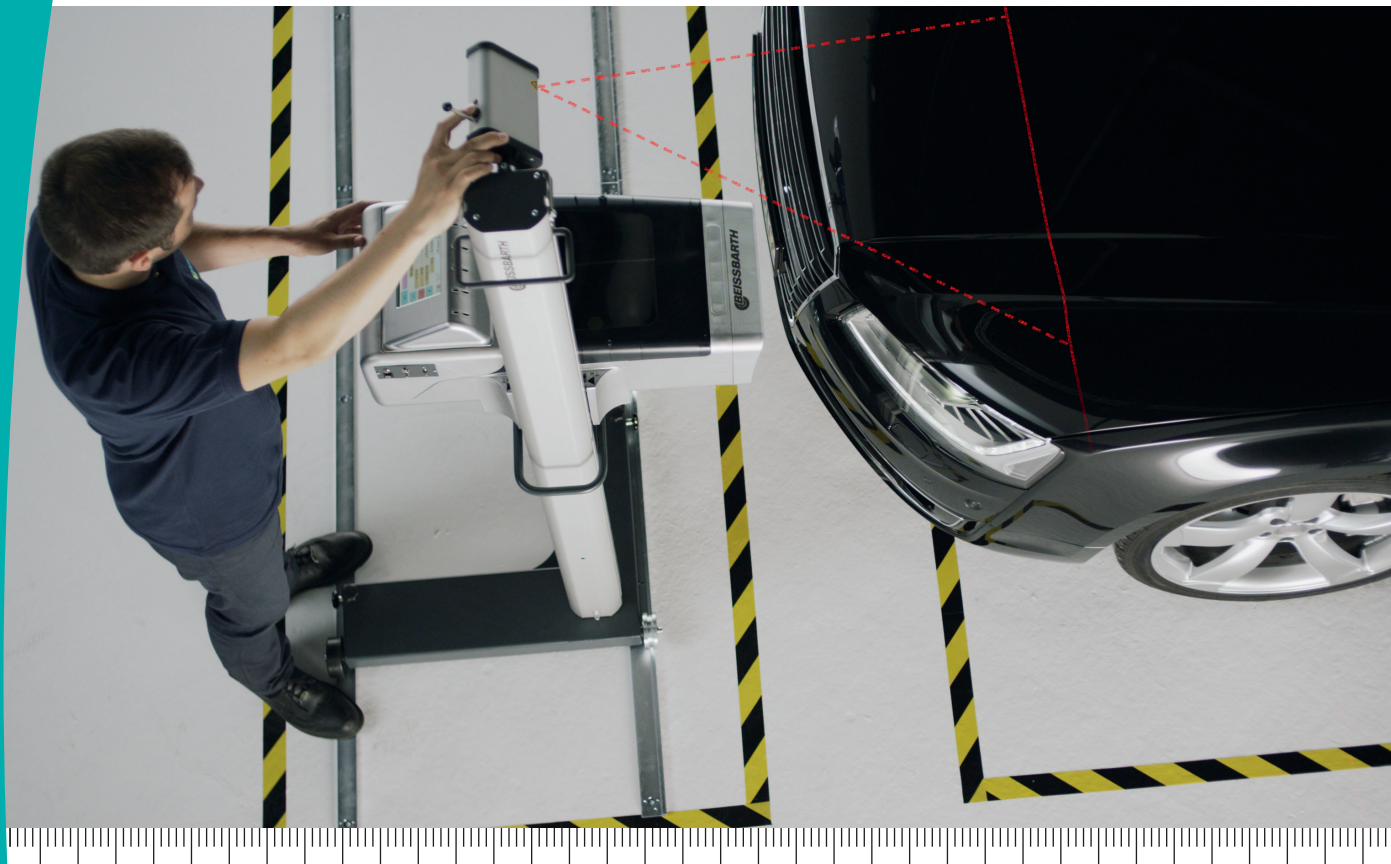


Integrated printer



Operating panel can be rotated by 180° (operation with gloves is possible)

Laser precision for accurate measurement



Leveling at the test area in accordance with the current directive



Alignment laser

Scratch-proof glass lens (Ø 230 mm)

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)

German Road Traffic Type-Approval Law

StVZO § 29 general-inspection headlight-test directive

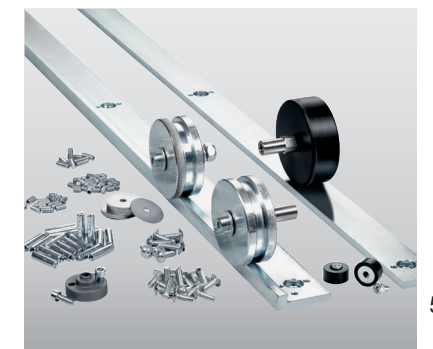
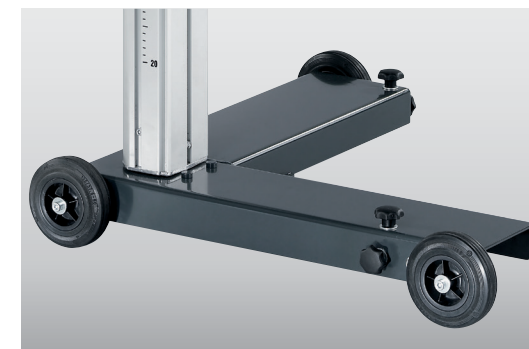
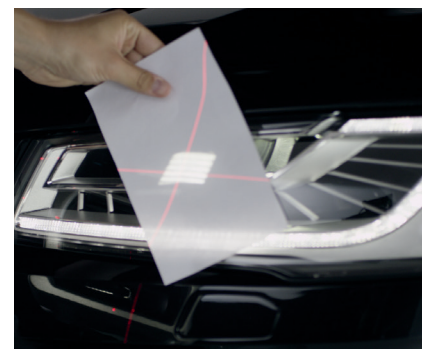
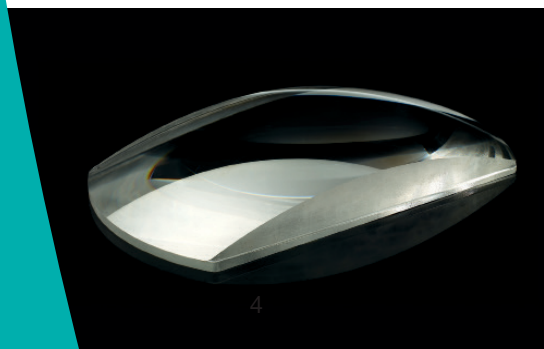
- MLD 815 alignment (leveling) on the test area complies with the latest requirements placed on test areas in workshops.
- Two-dimensional level for the horizontal leveling of the light box
- Levelable 3-wheel trolley
- Levelable rail system (3m) for above and in-ground installation as optional accessory

Cross laser

Light-box alignment with two-dimensional level

Levelable trolley

Levelable rail system (optional)



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
- Height-measurement sensor (optional)

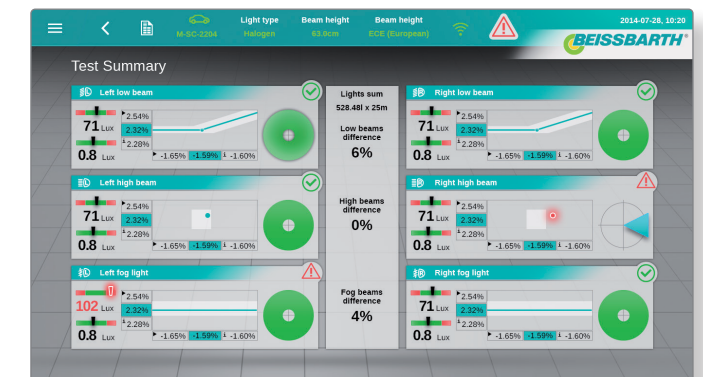
Test results via Bluetooth® with quick and neatly arranged results on the PC



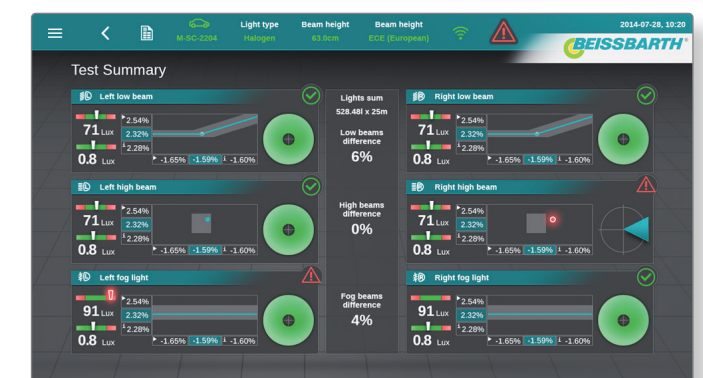
Accurate display of the test results on the workshop computer

Optional: visualization on the workshop computer

- Data transfer to PC via Bluetooth®
- User interface eases intuitive operation
- Database function
- Printing and archiving
- Adjustment of the colour scheme by the user: light/dark depending on the lighting conditions



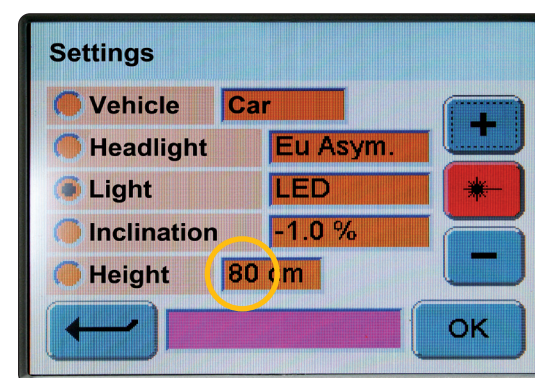
Test results on the tablet computer



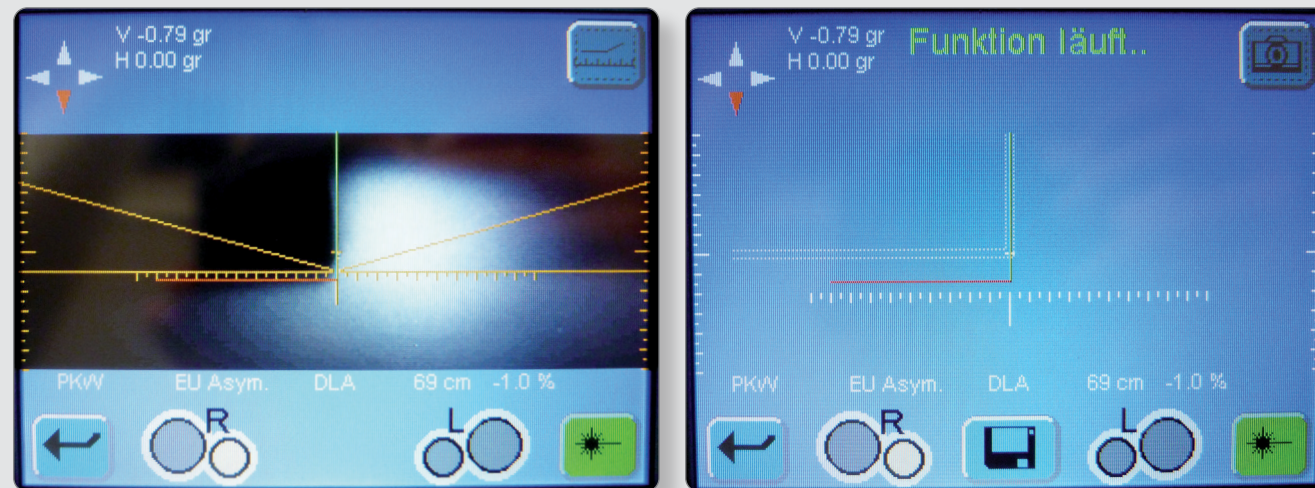
Light and dark background can be selected



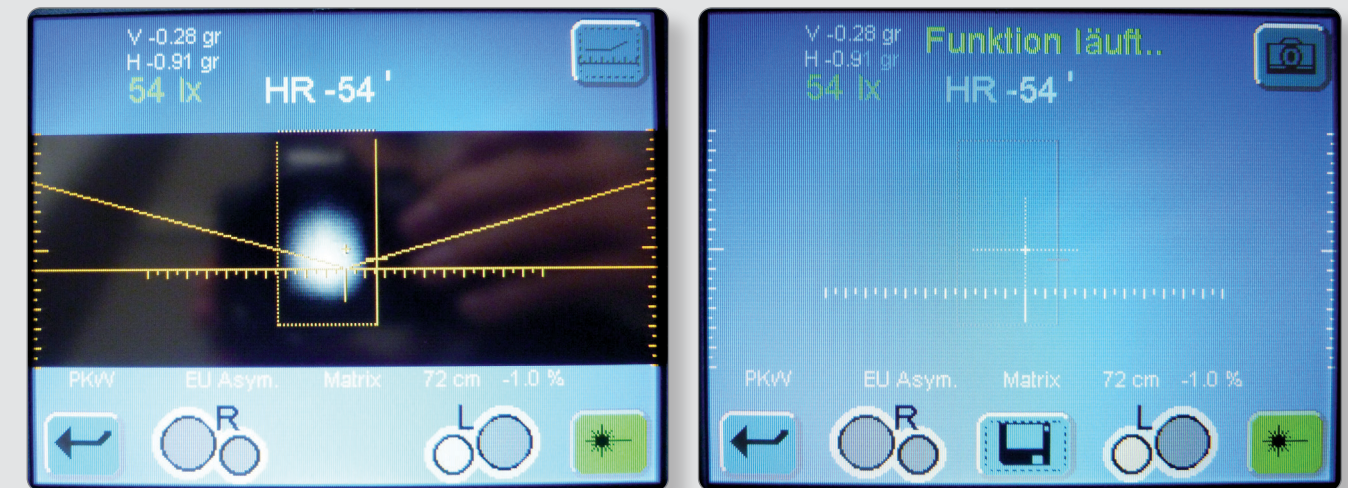
The height-measurement sensor automatically measures the installation height of the headlight (240 to 1450 mm) and shows the measured height on the display.



Reliable checking and adjustment of permanent high beams



Adjustment of a headlight with DLA high-beam assistant (test image via ECU diagnosis right on the vehicle)



Adjustment of a headlight with Matrix LED technology (test image via ECU diagnosis right on the vehicle)

Adjustment of headlights with glare-free high beam (e.g. Dynamic Light Assist DLA and Matrix Beam)

Currently, the version MLD 815 Matrix/DLA (order number 1 692 104 329) assists the operator at both of the common procedures:

- Mechanical adjustment of the vertical cut-off line (e.g. DLA)
- Position of the vertical cut-off line read out by means of the MLD 815 software – with an accuracy level based on angular minutes (e.g. Matrix Beam)

Communication with the vehicle:

- Vehicle preparation and activation of the basic setting via OBD
- Triggering individual test images (see illustration above) using an application for ECU diagnoses
- Information on the position of the cut-off line is sent back to the vehicle via application for ECU diagnoses (in case of Matrix Beam)



Accurate display on the MLD 815 screen

Technical data MLD 815

Light intensity	Candela
Illumination	0 - 150 000 Lux/1 m 0 - 240 Lux/25 m
Orientation (in %, cm, °)	
Low beam	0% - 10% (0 - 1 000 mm)
High beam	0% - 10% (0 - 1 000 mm)
Top and bottom, right and left	0% - 6% (0 - 600 mm)
Measuring height (optical centre above ground level)	240 - 1 450 mm
LCD colour screen	5.7", 262 000 colours
CMOS camera	640 x 480 VGA, Frame rate: 60 fps
Laser class	2R
Plug voltage (input voltage of the battery charger)	100 - 240 V / 50 - 60 Hz
Supply voltage (integrated battery)	12 V
Operating temperature (°C)	+ 5 bis + 45 °C
Weight	35 kg
Size of the device (W x D x H)	660 x 695 x 1 780 mm

Order numbers

MLD 815 with inclinometer	1 692 104 356
MLD 815 without inclinometer	1 692 104 358

Optional accessories

Software upgrade for glare-free high-beam systems (for MLD 815 Standard)	1 692 105 115
Rail (3 m)	1 692 105 080
Rail extension (1.5 m)	1 692 105 112
Height-measurement sensor	1 692 105 066
PC-Software with Bluetooth®-Kit	1 692 105 145
Cover	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.

Labeling laser aperture

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