



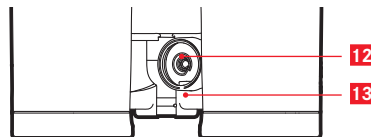
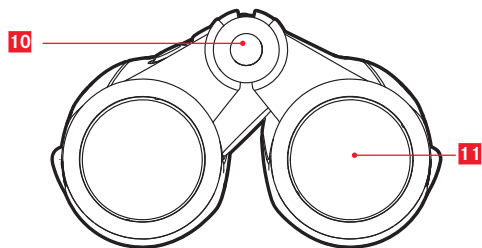
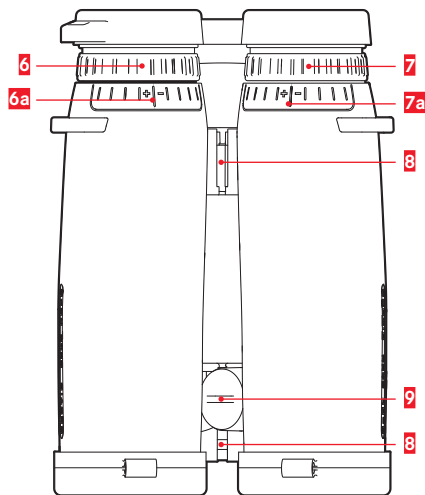
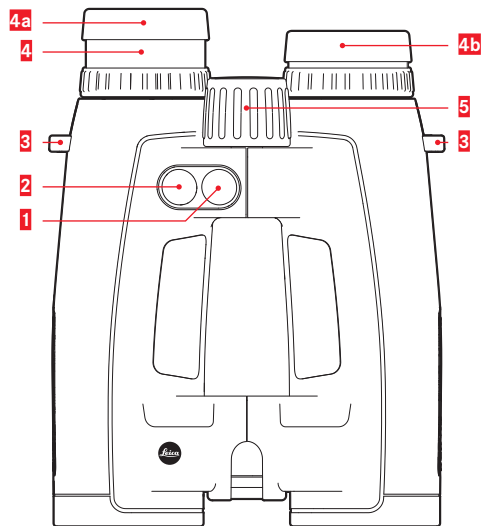
GEOVID HD-B 3000 / GEOVID HD-R 2700

ANLEITUNG | INSTRUCTIONS

NOTICE D'UTILISATION | GEBRUIKSAANWIJZING

ISTRUZIONI | INSTRUCCIONES | BRUKSANVISNING

ИНСТРУКЦИЯ ПО ЭКСПЛУАТАЦИИ



DESIGNATION OF PARTS

- 1** Main/trigger button for distance measurement
- 2** Secondary/menu button
- 3** Eyelets for the carrying strap
- 4** Eyecup
 - a** Turned out for use without eye glasses (4 steps)
 - b** Turned in for use with eye glasses
- 5** Central focusing wheel
- 6** Diopter compensation ring with
 - a** scale
- 7** Diopter compensation ring for displays with
 - a** scale
- 8** Hinged joints for adjusting the eyebase
- 9** Battery compartment/memory card slot cap (closed)
- 10** Laser transmission lens
- 11** Lens
- 12** Battery compartment
- 13** Memory card slot (only HD-B 3000)

WARNING

This indication alerts you to the fact that any improper use ignoring the contents described herein can result in potential death or serious injury.

CAUTION

This indication alerts you to the fact that any improper use ignoring the contents described herein can result in potential injury or material loss.

SAFETY PRECAUTIONS (Laser)

The Leica Geovid uses an invisible laser beam. Be sure to observe the following:

WARNING

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure
- When you see the display through the eyepiece, please be aware that the product is active and emitting an invisible laser and the laser aperture should not be pointed toward anyone
- Do not take the product apart or modify the product in any way to expose internal electronics that might cause damage or electric shock
- Do not depress any button while aiming at a human eye or while looking into the optics from the objective side
- Do not leave the Leica Geovid within the reach of small children

CAUTION

- Do not aim at the eye.
- Do not point the laser at people.
- Do not operate the unit with other additional optical elements, such as lenses or binoculars. Using an optical instrument together with the Leica Geovid increases the danger of damaging the eyes.
- When not measuring, please keep your fingers away from any button to avoid accidentally emitting the laser beam.
- When not in use for an extended period, please remove the battery from the body.

- Do not disassemble/remodel/repair the Leica Geovid. The emitting laser may be harmful to your health. A product that has been disassembled/remodeled/repared is not guaranteed by the manufacturer.
- If the Leica Geovid's body cover is damaged, or if it emits a strange sound due to dropping or some other cause, remove the battery immediately and stop using.

The production date can be found on the stickers in the Guarantee Card and/or on the packaging.
The date is written as follows: Year/Month/Day

Technical Data (Laser)

Class	IEC/EN Class 1
Wavelength (nm)	897
Pulse duration (ns)	57
Output (mW)	0,89
Beam divergence (mrad)	Vertical: 2.03, Horizontal: 1.13

**CLASS 1
LASER PRODUCT**

FOREWORD

Dear Customer,
the name Leica is synonymous worldwide with the highest quality, precision mechanics, extreme reliability and long service life.

We wish you a great deal of enjoyment and every success with your new Leica HD-B 3000/HD-R 2700.

These binoculars with integrated rangefinder emit harmless, invisible infrared impulses and calculates the distance to an object from the reflected signal component using an in-built microprocessor. The device furthermore captures ambient and operating parameters. These values, combined with the measured distances, allow the device to calculate and display the relevant holdover values, required corrective click adjustments of the reticle on a rifle scope, or equivalent horizontal distances for various, selectable and programmable ballistic curves.

We recommend reading this manual in its entirety to ensure that you will be able to correctly utilize all functions of this high-quality and versatile device.

SCOPE OF DELIVERY

- Binoculars
- 1 lithium battery 3 V, type CR 2
- Carry strap
- Carry case
- Eyepiece cap
- 2 lens caps
- microSD memory card
- microSD card adapter
- Guarantee Card
- Test certificate

Warning note

As with all binoculars and telescopes, avoid looking directly at bright light sources with your Leica Geovid HD-B/HD-R, which could damage your eyes and eyesight.



DISPOSAL OF ELECTRICAL AND ELECTRONIC EQUIPMENT

(Applies within the EU and for other European countries with active waste separation policies)

This device contains electrical and/or electronic components and must therefore not be disposed of in general household waste! Make sure to bring this device to a local disposal collection point for recycling. This service is free of charge.

Any standard or rechargeable batteries used in this device must be removed and disposed of separately in accordance with local regulations (please read the device manual for details).

Please contact your local authorities, waste disposal collection point or the retailer, from whom you purchased the device for more information on correct waste disposal.

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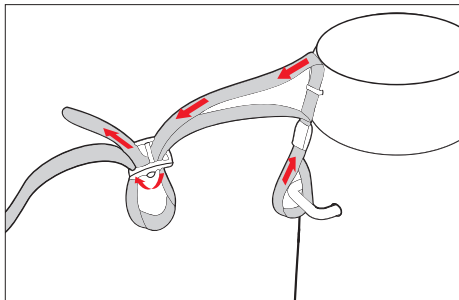
AREAS OF USE

Your Leica Geovid HD-B-/HD-R binoculars feature a robust magnesium housing for reliable use in adverse ambient conditions. Humidity or rain are no issue – these binoculars are completely waterproof to a depth of 5 m and the nitrogen filling prevents condensation on internal optical elements.

ATTACHING THE LENS CAPS

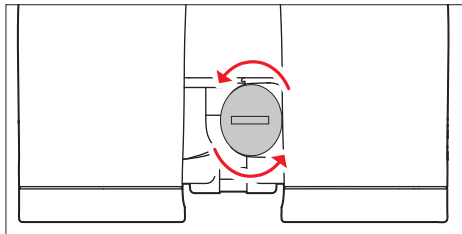
The rubber rings on the caps are pulled over the binocular tubes on the lens side, so that the caps open up downward to mount the two lens caps.

ATTACHING THE CARRY STRAP AND EYEPIECE CAP



Note

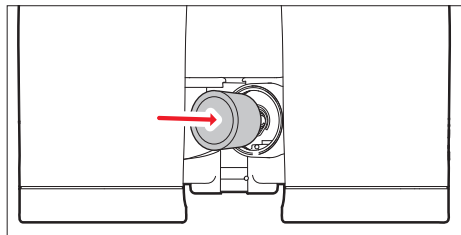
Thread the carry strap through the loop on the eyepiece cap to secure it and then attach the carry strap on the left side of the binoculars.



INSERTING/REPLACING THE BATTERY

Your Leica Geovid HD-B/HD-R is powered by a cylindrical 3 V lithium cell (type CR 2).

1. Open the cap **9** over the battery compartment **12** by turning it counter-clockwise (e.g. with a coin).
2. Insert the battery so that the positive contact goes in first (note the markings in the battery compartment).
3. Close the cap again by turning it clockwise.



Notes

- Low temperatures impair battery performance. Carry the binoculars close to the body in cold conditions and insert a fresh battery.
- Remove the battery if the binoculars will not be used for an extended period of time.
- Store batteries in a cool, dry place.

BATTERY CHARGE LEVEL

A fully charged, new battery will suffice for over 2000 measurements at ambient temperatures around 20° C.

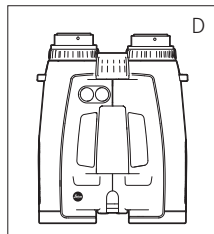
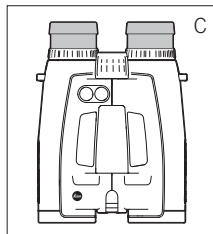
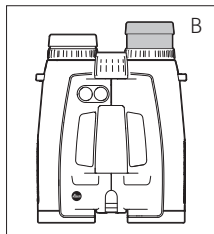
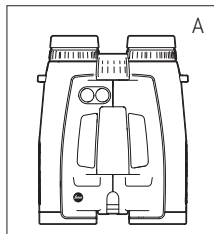
Battery life can be significantly shorter or longer depending on operating conditions. Low temperatures and frequent use of the scan mode (see p. 46) will shorten battery life.

A depleted battery is indicated by a flashing measured value and reticule display. The battery will be able to perform another 50 measurements after the indicator flashes for the first time, the range will, however, decrease with each new measurement.

Leica recommends using brand name batteries only.

Attention

- Never throw batteries into an open fire. Do not heat, recharge, disassemble or break open a used battery.
- Depleted batteries must not be disposed of in regular household waste, because they contain toxic materials that are harmful to the environment.
- Return the depleted battery to a retailer offering a battery collection point or bring it to a local special waste collection point offered by the local authorities to ensure correct recycling.



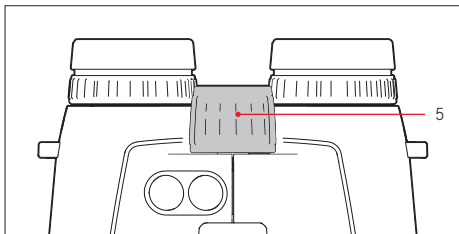
ADJUSTMENT OF THE EYECUPS/ USE WITH/WITHOUT EYE GLASSES

Twist the eyecups **4** to adjust them and click them securely into place in the desired position. They can also be removed for cleaning.

Users with eye glasses (Figure A) should keep the eyecups in their fully turned in position. Users without eye glasses turn the eyecups in counter-clockwise direction until the most comfortable position is found. Four adjustment positions are available (Figure B). Removing the eyecups for cleaning (Figure C) if the eyepiece shows signs of heavy soiling. Turn the eyecups all the way out and remove them with a gentle pull.

ADJUSTING THE INTEROCULAR DISTANCE

Adjust the interocular distance by moving the central hinged joints **B**. The fields of view on the left and right must merge into one circular image.

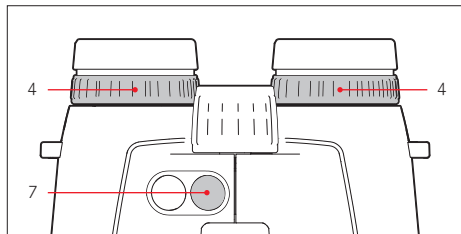


ADJUSTING THE FOCUS/ DIOPTER ADJUSTMENT

Use the central focusing wheel **5** to set the focus for objects at various distances on the Leica Geovid HD-B/HD-R. The two diopter compensation rings **6/7** allow a focus adjustment of the reticle to compensate for individual vision defects when used without eye glasses.

Follow the instructions below with care. Only then will you be able to take advantage of the full optical functionality of the device.

1. Turn both diopter compensation rings to their zero position.
2. Focus on the distant object with both eyes and turn the central focusing wheel.
3. Press the main/trigger button **1** to activate the reticle.



4. Once the reticle appears in your field of vision, turn the diopter compensation ring on the right **7** (red index) until the reticle on the right is in clear focus while focusing on the object with both eyes.
5. With the reticle still activated, but only focusing on the object with your right eye, use the central focusing wheel again to finalize the image focus on the right.
6. Next, use the diopter compensation ring **6** on the left to optimize the image focus on the left.
7. The set values are displayed on the diopter scales **7a** / **6a** "+" and "-".

Note

When setting the focus on either the left or right, close the relevantly other eye or cover the relevant other lens at the front of the binoculars.

MENU CONTROL BASICS

The following applies for all settings:

- The main menu consists of four items: Yard/Meter display (**EU/US**), Ballistics Curve (**bALL**), Zeroing Distance (**SD**) and Ballistic Output Format (**ABC**). Please read the relevant sections in this manual for details on their function.
- The main menu and the individual setting options appear in a continuous loop, which means that all items/settings can be reached by pressing the button repeatedly.

SETTING THE UNIT OF MEASURE

Your Leica Geovid HD-B/HD-R can be set to imperial units of measure (**US**) or metric units of measure (**EU**), i.e. Yards & Inches/Fahrenheit/Inches of Mercury for Distance/Temperature/Air Pressure, or Meter & Centimeter/Celsius/Millibar. This setting also encompasses the units of measure of the holdover, ballistic curves and zeroing distance. Your Leica Geovid HD-B/HD-R is set to yards ex works.

Setting

1. Press and hold the secondary/menu button **2** (≥ 3 s).
 - **EU/US** appears (flashing).
2. Press the main/trigger button **1** to select your preferred unit of measure.
US = display in yards
EU = display in meters

Note

The current setting is always visible in the display: **M** (for meters) or **Y** (for yards) appears in addition to the digits displayed.

3. Save your setting by briefly pressing the secondary/menu button.
 - The saved setting is initially lit continuously as confirmation, then the display switches to the next menu item ("**bALL**" = Ballistics Curve). The display disappears if no other settings are made.

DISTANCE MEASUREMENT



Aim directly at an object to measure its distance.
Proceed as follows:

1. Press the main/trigger button **[M]**. The rangefinder activates.
 - The reticule appears.

The reticule remains lit for another 6 seconds after you release the main/trigger button. The reticule remains lit continuously while the button is pressed and held.

2. Aim at the object while the reticule is lit.
3. Press the main/trigger button again.
 - a. The reticule disappears briefly during the measurement.
 - b. The measured value is displayed.

You can start another measurement by pressing the main/trigger button at any time, as long as the reticule display is lit.

- - - appears if

- the distance to the object is less than 10 meters/yards or
- the range is exceeded or
- the object is not sufficiently reflective.

When the display disappears, the rangefinder shuts down automatically.

SCAN MODE



Your Leica Geovid HD-B/HD-R can also be used for continuous measurements (scan mode):

Hold the main/trigger button **1** when you press it a 2nd time. After about 2.5 seconds, the device switches to scan mode and will then measure continuously. Scan mode is indicated by a change in the display:

A new measured value appears every 0.5 seconds. Scan mode is particularly useful for measuring the distance to small, moving targets.

Notes

- In scan mode, the **FLC** compensation value is shown only after the final measurement.
- Because of the continuous measurements, power consumption is greater in scan mode than for single measurements.

MEASURING RANGE & ACCURACY

The measuring range of your Leica Geovid HD-B is max. 2800 m/3000 yds (HD-R: max. 2550 m/2700 yds). Maximum range is achieved with highly reflective targets and a visual range of sight of around 10 km/6.2 miles.

Note

We recommend holding the binoculars very steady or resting them on a stable surface for accurate measurements of far away objects.

Highly reflective targets	HD-B 3000: 2800 m, HD-R 2700: 2550 m
Trees	HD-B 3000: 1450 m, HD-R 2700: 1100 m
Game	HD-B 3000: 915 m, HD-R 2700: 730 m

The measuring range is influenced by the following factors:

Range	longer	shorter
Color	white	black
Angle to lens	perpendicular	acute
Object size	large	small
Sunlight	low (cloudy)	high (midday sun)
Atmospheric conditions	clear	hazy
Object structure	homogeneous (house wall)	inhomogeneous (underbrush, tree)

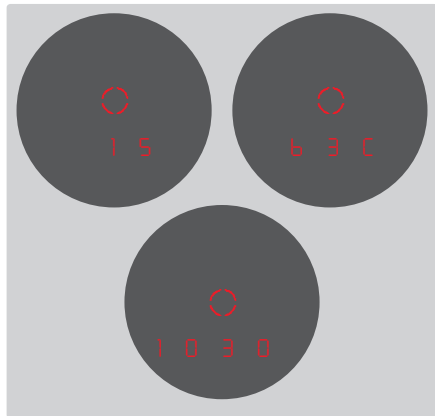
The following ranges/tolerances apply for cloudy skies with good visibility:

Range in meters	Accuracy (1 σ) Normal Mode	Accuracy (1 σ) Scan Mode
10-200	+/- 0.5	+/- 1.5
200-400	+/- 1	+/- 2
400-800	+/- 2	+/- 3
Above 800	0.5 %	0.5 %

Note

Distances below 200 m are displayed with an accuracy of one decimal place, e.g. **145.5**.

ATMOSPHERIC CONDITIONS DISPLAY



Your Leica Geovid HD-B/HD-R will determine three crucial pieces of additional information when measuring the distance to the intended object to accurately calculate the impact point (see next section): device angle, temperature and atmospheric pressure. You can have the relevant values displayed at any time.

Press the secondary/menu button **2** once.

- The reticule appears briefly (if distance measurement was not previously activated).

Next, the following items appear in succession for around 2 s each instead of the range:

- inclination (indicated by an additional angle symbol)
- temperature
- atmospheric pressure

Note

It may take up to 30 minutes for the internal sensor to display the correct ambient temperature if the housing of your Leica Geovid HD-B/HD-R is significantly warmer or colder (e.g. during the transition from indoor to outdoor temperatures).

DETERMINING THE BALLISTICS CURVE

There are 12 ballistics curves to choose from to allow for a calculation adjustment of the equivalent horizontal distance (**EHR**, see p. 52), the holdover (**HOLD**, see p. 52), or the reticle correction (**RCR**, see p. 54) to the various calibers, as well as bullet types and weights. There are 6 tables provided in the Appendix, three each for zeroing distances in meters and yards. Find the ballistics curve that is closest to the point of impact specified by the ammunitions manufacturer in the relevant table matching the zeroing distance.

Example

The weapon and rifle scope are zeroed to a distance of 100 meters (Table 1 applies). The point of impact for the ammunition used is stated by the manufacturer as 15.0 cm at 200 m. In the relevant column, this is closest to the value 14.5 cm in row **EU1** – and is therefore the correct ballistic curve.

Note

We recommend determining the ballistics data of your ammunition in practical tests to select the correct curve when using the Leica Geovid HD-B/HD-R's ballistic function at distances greater than 300 m/yds and/or with ammunition types not covered by the device-internal settings. Alternatively, you can use the Leica ballistics calculator (<http://ballistictool.leica-camera.com>) to calculate new settings and transfer those to the device via the memory card.

SETTING THE BALLISTICS CURVE

Start with step 1 if you are working with the menu controls for the first time or with step 3 if you have just set the unit of measure and the display **ball** is still flashing.

1. Press and hold the secondary/menu button **2** (≥ 3 s).
 - **EWUS** appears.
2. Press the secondary/menu button 1 time (< 2 s).
 - The display switches to **ball** (= Ballistics Curves).
3. Press the main/trigger button **1**.
 - The display switches to
 - **USI** or
 - **EUI**

Note

When a memory card is inserted, **Card** appears before **EUI/USI**.

4. Select the desired ballistics curve by pressing the main/trigger button repeatedly, i.e.
 - **US1** to **US12** or
 - **EUI1** to **EUI2**, or
 - OFF if you want to have the distance displayed without point of impact correction
 - **ABC**.
5. Save your setting by briefly pressing the secondary/menu button.
 - The saved setting lights up for 4 s as confirmation, then the display initially switches to **SD** and then disappears if no other action is taken.

Once a ballistics curve is set, the range value is first displayed for 2 s after each distance measurement is taken, followed by the calculated correction value for 6 s.

SETTING THE ZEROING DISTANCE

Start with step 1 if you have not previously opened the menu control, or with step 3 if you have just set the unit of measure and **Sd** is still flashing in the display.

1. Press and hold the secondary/menu button **2** (≥ 3 s).
 - **EWUS** appears.
2. Press the secondary/menu button 2 times (< 2 s)
 - The display switches from **bALL** to **Sd**.
3. Pressing the main/trigger button **1** repeatedly selects the required zeroing distance.
 - **100** [m],
 - **200** [m] or
 - **GEE** [m] or
 - **100** [y] or
 - **200** [y] or
 - **300** [y].
4. Save your setting by briefly pressing the secondary/menu button.
 - The saved setting is initially lit continuously for 4 s as confirmation, then the display switches to **AbC** and then disappears.

SET BALLISTICS CURVE DISPLAY AND ZEROING DISTANCE DISPLAY

You can display the 3 values at any time if you want to verify your settings, e.g. because of a change in the hunting conditions or if some time has passed between uses.

Press the secondary/menu button **2** briefly twice.

- The following will appear in sequence for around 2 s each underneath the reticule (instead of the range, where applicable)
 - the set ballistics curve
 - the set zeroing distance
 - the set ballistic output value

BALLISTICS OUTPUT FORMATS (ABC®)

The Advanced Ballistic Compensation (ABC) function of your Leica Geovid HD-B (not available for HD-R) allows you to optionally display one of the following three ballistics values right after the measured range is displayed:

- the equivalent horizontal range (EH)
- the relevant holdover (HOLD) (not available for HD-R)
- the number of clicks required on the rapid reticle adjustment (not on HD-R)

Both the displayed holdover and EH values factor in:

- a. the measured range to the target
- b. the angle of inclination of the weapon
- c. the set ballistic curve
- d. the measured temperature and atmospheric pressure values
- e. the set zeroing distance

Notes

- Calculation of the specified values is based on the currently set ballistic curve, i.e. the curve must be selected first (see p. 50).
- For safety reasons, ballistic output values are only specified up to a range of 800 m/ 875 yds. The actual measured range is also specified.

Important

- Please note that particularly at long ranges, the influence of all relevant ballistic influencing factors is greatly increased and considerable variations can occur. The ballistic values displayed should therefore only be viewed as a guideline.
- Regardless of whether this information is used, you are responsible for assessing the relevant hunting situation.

THE EQUIVALENT HORIZONTAL RANGE (EHR)

Shots at targets at a higher or lower elevation are subject to changed ballistic conditions. Therefore, they require knowledge of the equivalent horizontal range, which is relevant for hunting. Knowledge of the EHR is important, for example when using ballistic reticles. EHR values are indicated by the additional display EHR.

Note

Horizontal EHR measurements can also result in values that differ from the “straight line” measured range, for example if the temperature and/or the atmospheric pressure are non-standard values.

HOLDOVER (HOLD)

(only HD-B 3000)

Holdover is defined as the point that you aim at with the weapon instead of the actual target point to compensate for the variation caused by the trajectory of the bullet (e.g. when using classic hunting reticles). By displaying the holdover, the Leica Geovid HD-B can provide valuable support in achieving the most accurate shots possible when hunting. In addition to the range, the calculation is based on the general conditions discussed in the previous section and the ballistic curve you have selected.

Note

The holdover/offset value is always displayed relative to the target distance.
Example If 300m 30 is displayed, you would have to aim 30 cm higher on the object than without compensation.

IMPACT POINT CORRECTION USING ELEVATION ADJUSTMENT (Click/MoA adjustment)

(only HD-B 3000)

Variations in the point of impact can be compensated by adjusting the reticle on your rifle scope accordingly.

Based on the measured distance, bullet trajectory and the set zeroing distance (see p. 51), your Leica Geovid HD-B will display the relevant setting adjustments, i.e. the number of clicks required.

For the different elevations, you can specify whether the click levels will be

- based on the international standard MOA (minutes of angle) graduation, or
- displayed in 5 or 10 millimeter increments.

SETTINGS AND SELECTION OF BALLISTIC OUTPUT FORMATS

Start with step 1 if you have not previously opened the menu control, or with step 3 if you have just set the zeroing distance and **REC** is still flashing in the display.

1. Press and hold the secondary/menu button **2** (≥ 2 s).
 - **ELWS** appears.
2. Press and hold the secondary/menu button 3 times (≥ 2 s).
 - The display switches from **BALL** and **SH** to **REC**.
3. Select the desired ballistics setting by pressing the main/trigger button **1** repeatedly.
 - **EH** (HD-B and HD-R)
 - only on HD-B 3000:
 - **HOLD**, or
 - **1-1** (1 MOA as a decimal value) or
 - **1-3** ($\frac{1}{3}$ MOA) or
 - **1-4** ($\frac{1}{4}$ MOA) or
 - **10**
 - **5**
4. Save your setting by briefly pressing the secondary/menu button.
 - The saved setting is initially lit continuously for 4 s as confirmation, then the display disappears.

DISPLAYING AND CHECKING THE SET BALLISTIC PARAMETERS

(only HD-B 3000)

If you want to check your settings, you can display the values at any time. To do so, press the secondary/menu button **2** twice.

- The following will appear in sequence for around 2 s each underneath the reticule (instead of the range, where applicable)
 - the set ballistic curve (see p. 50)
 - the set zeroing distance (see p. 51)
 - the set ballistic output value (see p. 54)

Only the setting **US** or **EU** will be displayed when all ballistics functions (**BALL** = OFF) are deactivated.

USING OTHER BALLISTICS CURVES

(only HD-B 3000)

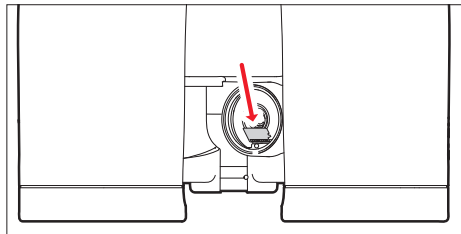
You can add your own custom ballistics curves for the Leica Geovid HD-B if the intended weapon/ammunition combination is not covered by one of the 2x12 programmed ballistics curves **EUI/USI-EUP/USP**. These are initially calculated precisely based on the charge data like caliber, ballistics weight etc., which you have provided online. Then the data is transferred to the microSD memory card provided and can then be accessed by the binoculars, once the card is inserted.

This is done in three steps:

A. Calculation of the required ballistics curve and transfer to the memory card

The Leica Camera AG website at www.leica-camera.com offers the following information in the Sport Optics section:

- a description how to enter the required information/values to calculate a ballistics curve
- the relevant input mask
- a description of the download procedure, i.e. how to transfer the calculated ballistics curve to the memory card



B. Inserting the memory card into the binoculars

The memory card slot **13** is located in the battery compartment **12** to protect it against soiling and moisture.

1. Open the the battery compartment cap **9** by turning it counter-clockwise e. g. with a coin.
2. Remove the battery.
3. Push the memory card with the contacts at the front and bottom into the slot until you feel it clicking into place.
4. Insert the battery so that the positive contact goes in first (note the markings in the battery compartment).
5. Close the cap again by turning it clockwise.

C. Opening the ballistic curve from the memory card

When a memory card containing a ballistics curve is inserted into the binoculars, it can be selected the same way as described in "Setting the ballistics curve" on p. 50.

- Once you have pressed the main/trigger button **1**, the first display in this case will be **CArd**.
The following warning will be displayed:
 - **Err1** if the bALL menu was selected and the memory card was then removed, or if the memory card is defective or cannot be read. **CArd** will disappear if that is the case.
 - **Err2** if the memory card does not contain a ballistics curve
 - **Err3** if the ballistic curve on the memory card does not contain correct data

The rest of the procedure is the same as for programmed ballistics curves.

Notes

- You can select one of the programmed ballistic curves at any time while a memory card is inserted. Make sure to always check your settings.
- A separate microSD card is required for each ballistics curve. Do not attempt to rename a file on a microSD card, as the device will otherwise be unable to access it.
- Only one ballistic curve can be saved on a memory card for safety reasons and to avoid confusion.
- Distances of up to 925 m/1000 yds will be displayed when a ballistics curves from a memory card is used.
- The range of microSD cards is too large for Leica Camera AG to exhaustively test all available types for compatibility and quality. We therefore recommend using microSDHC™ memory cards manufactured by SanDisk.
- Although no damage to the binoculars or the card is generally expected, Leica Camera AG cannot provide any guarantee of function as some "no name" cards may not fully comply with microSD standards.
- Custom zeroing distances on the memory card will be replaced with pre-installed zeroing distances.

CARE/CLEANING

Your Leica Geovid HD-B/HD-R requires no special care. Coarse dirt particles like sand can be removed with a soft brush or simply blown off. Fingerprints, etc. on lenses and eyepieces can be removed with a damp cloth, and the surfaces must then be wiped with a clean leather or lint-free cloth.

Important

Do not apply pressure when wiping heavily soiled lens surfaces. The coating is abrasion-resistant, but is not impervious to sand or salt crystals. The housing should be cleaned using a damp cloth only. Using a dry cloth may cause static electricity due to friction. Do not use alcohol or chemical cleaning solutions on the lenses or housing. In addition to its type designation, each Leica Geovid HD-B/HD-R has a unique serial number. Please take note of this number as a safety measure.

Attention

Do not open the device!

REPLACEMENT PARTS

Please contact our customer service or your regional Leica representative (see Leica Camera AG homepage for addresses) if you ever need any replacement parts (e.g. an eyecup or an eyepiece cap) for your Leica Geovid HD-B/HD-R.

TROUBLESHOOTING

Problem	Cause	Remedy
The viewing image is not circular.	a. Your pupil is not in line with the exit pupil of the eyepiece. b. The eyecup setting not correct for use with/without glasses.	a. Adjust eye-to-eyepiece alignment b. Correct the setting: Eye glasses users fold back the eyecup; the eyecup remains folded out for users without eye glasses.
Image is blurred	Diopter setting incorrect	Repeat diopter compensation procedure
“- - -” is displayed during distance measurement	a. Minimum/maximum measuring range exceeded b. Insufficient object reflectivity c. Insufficient ambient conditions (visibility, etc.)	Observe specified measuring range limits
Display flashes or no measurement possible	Battery exhausted	Replace the battery
“Err” is displayed	A memory card error has occurred	Check if <ul style="list-style-type: none"> – the memory card functions correctly – the data stored on the memory card is intact

TECHNICAL DATA

Designation	Leica Geovid 8 x 42 HD-B 3000 / Leica Geovid 8 x 42 HD-R 2700 Type No.: 8905	Leica Geovid 10 x 42 HD-B 3000 / Leica Geovid 10 x 42 HD-R 2700 Type No.: 8905	Leica Geovid 8 x 56 HD-B 3000 / Leica Geovid 8 x 56 HD-R 2700 Type No.: 5980
Magnification	8 x	10 x	8 x
Lens diameter	42 mm		56 mm
Exit pupil diameter	5.2 mm	4.2 mm	7 mm
Twilight factor	18.3	20.5	21.2
Relative brightness	27.5	17.6	49
Field of view (at 1,000 m) / subjective viewing angle	approx. 130 m / 7.3°	approx. 114 m / 6.5°	approx. 118 m / 5.8°
Eye relief	18 mm	16 mm	18 mm
Closest focusing distance	approx. 5 m		approx. 5.8 m
Prism system	Perger prism		
Coating on lenses on prisms	High Durable Coating (HDC™) and hydrophobic Aqua-Dura coating on external lenses, phase correction coating P 40		
Diopter compensation	± 4 dpt.		
Eyecups	Turn-to-adjust for eye glasses-compatibility, 4 click points, detachable for easy cleaning		
Interocular distance	adjustable: 56 - 74 mm		adjustable: 60 - 74 mm
Operating temperature range	Electrical: -20 to 55° C, Mechanical: -30 to 55° C		
Storage temperature	-40 to 85° C		
Waterproofing	waterproof to 5 m depth		
Housing/chassis material	Magnesium die-cast, non-slip rubber reinforcement		
Range	approx. 10 - 2800 m (HD-B) / approx. 10 - 2550 m (HD-R)		
Measuring accuracy	10-200 m: +/- 0.5 m, 200-400 m: +/- 1 m, >400 m: +/- 0.5 %		
Display/Unit of measure	4 seven-segment LEDs plus additional icons, optional display setting in yard/inch or meter/centimeter		
Battery	3 V/cylindrical lithium cell (type CR 2)		
Battery life	approx. 2,000 measurements at 20° C		
Laser	invisible, safe for eyes in compliance with EN and FDA Class 1		
Laser beam divergence	approx. 0.5 x 1.2 mrad		
Maximum measurement duration	approx. 0.3 s		
Dimensions (W x H x D)	approx. 127 x 81 x 177 mm		approx. 153 x 90 x 187 mm
Weight (with battery)	approx. 950 g	approx. 950 g	approx. 1205 g

LEICA CUSTOMER CARE

Please contact the Customer Care department at Leica Camera AG or the Repair Service department at your regional Leica subsidiary (a list of addresses is provided on the website of Leica Camera AG) for maintenance or repair issues with your Leica equipment.

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