STABILA®

How true pro's measure

RL 230 RG

Operating instructions

RED/GREEN BEAM

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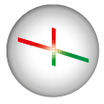
Contents

1. Intended use

Congratulations on the purchase of your STABILA measuring tool. The STABILA RL 230 RG is an easy-to-use receiver for quickly locating red or green, pulse-modulated laser lines.



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If you still have questions after reading through the operating instructions, you can obtain advice by telephone:

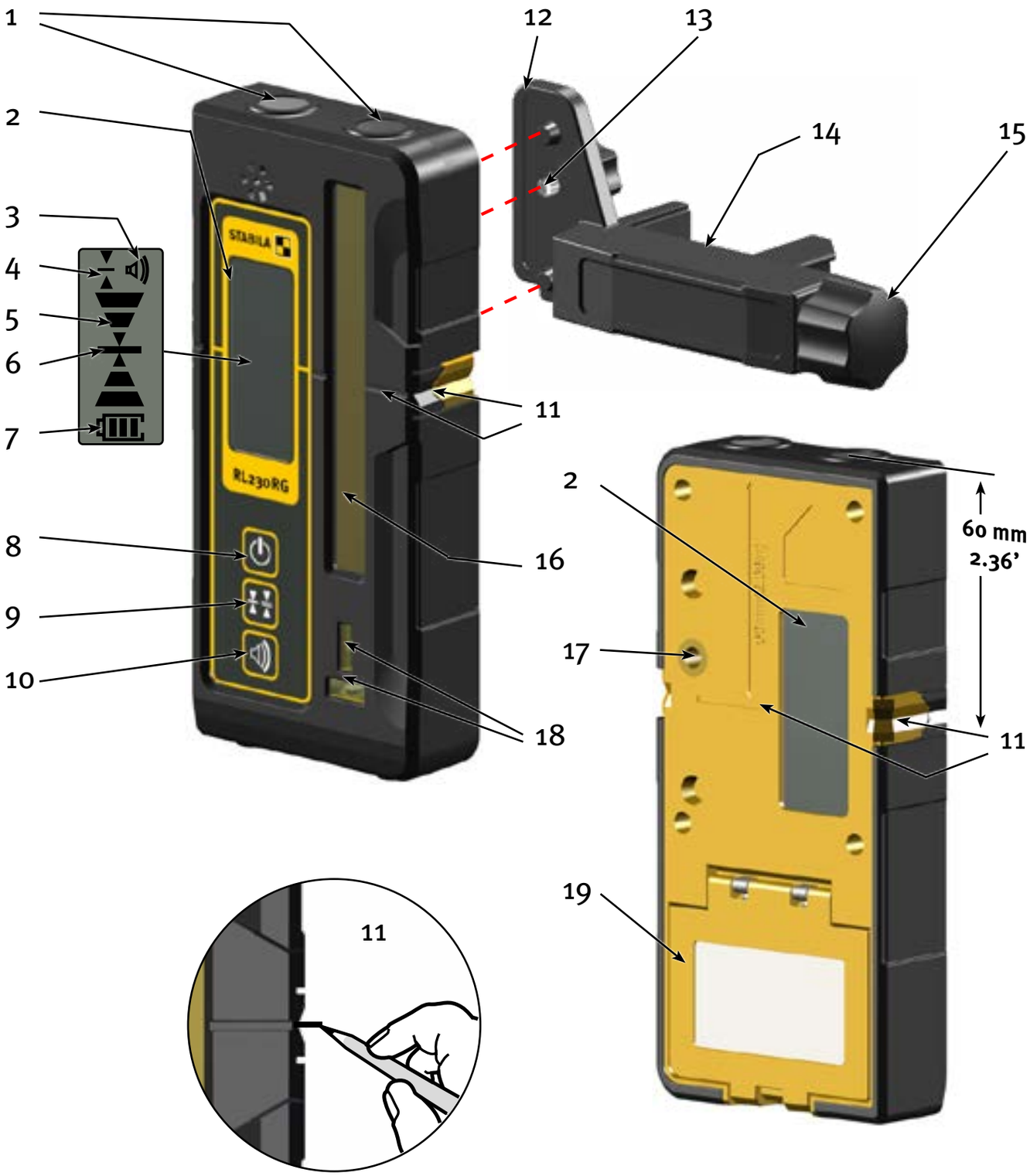
+49 63 46 3 09 0

Equipment and functions:

- Receiver for quickly locating pulse-modulated red or green laser beams
- Casing protected in accordance with IP 66
- Adjustable accuracy
- Displays on front and rear
- Display lighting can be switched on and off
- Acoustic guidance can be activated
- 2 vials for precise horizontal and vertical alignment
- Integrated magnet system for attachment to magnetic objects
- Retaining bracket for mounting the receiver on levelling rods
- Batteries for operation

2. Safety information

Read through the safety information and operating instructions carefully.



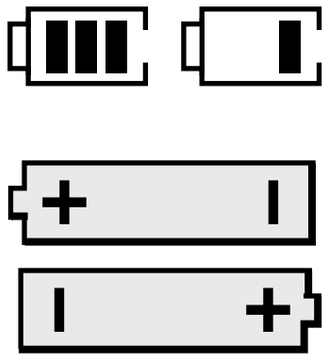
3. Description of the unit

3.1 System Elements

1 Magnet
2 Display: 1x on front, 1x on rear
3 Acoustic signal
4 Adjustment of accuracy: fine to rough
5 Display levels for height difference in relation to "on line" position
6 "On line" position
7 Battery capacity
8 On/Off
9 Accuracy
10 Acoustic signal
11 "On line" marking
12 Retaining bracket
13 Mounting screw
14 Reading reference
15 Locking screw
16 Laser receiver
17 Thread for retaining bracket
18 Vials
19 Battery compartment cover

4. Commissioning

4.1 Inserting batteries/Battery replacement

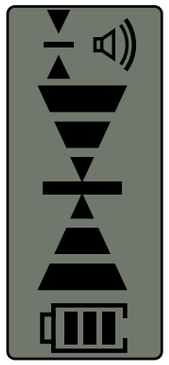


2x 1.5V alkaline
AA, LR6, Mignon

Open the battery compartment cover, insert new batteries into the battery compartment according to the symbol. Suitable rechargeable batteries can also be used.

LCD indicator:
Symbol with one bar indicates a low battery.
Insert new battery.

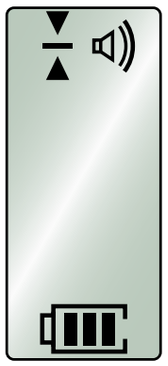
Used batteries should be disposed of at appropriate collection points! Do not dispose of in household waste! Do not leave batteries in unit! Remove batteries if you do not intend to use the unit for some time!

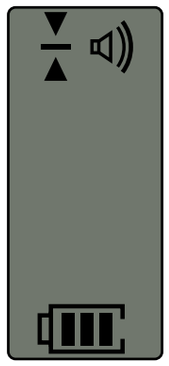


1X

4.2 Switching the unit on

After the unit is switched on using the ON/OFF button, all of the display's segments are shown briefly. Hold down the ON/OFF button to switch off the unit.
The unit switches off automatically if it is not used for 30 minutes.





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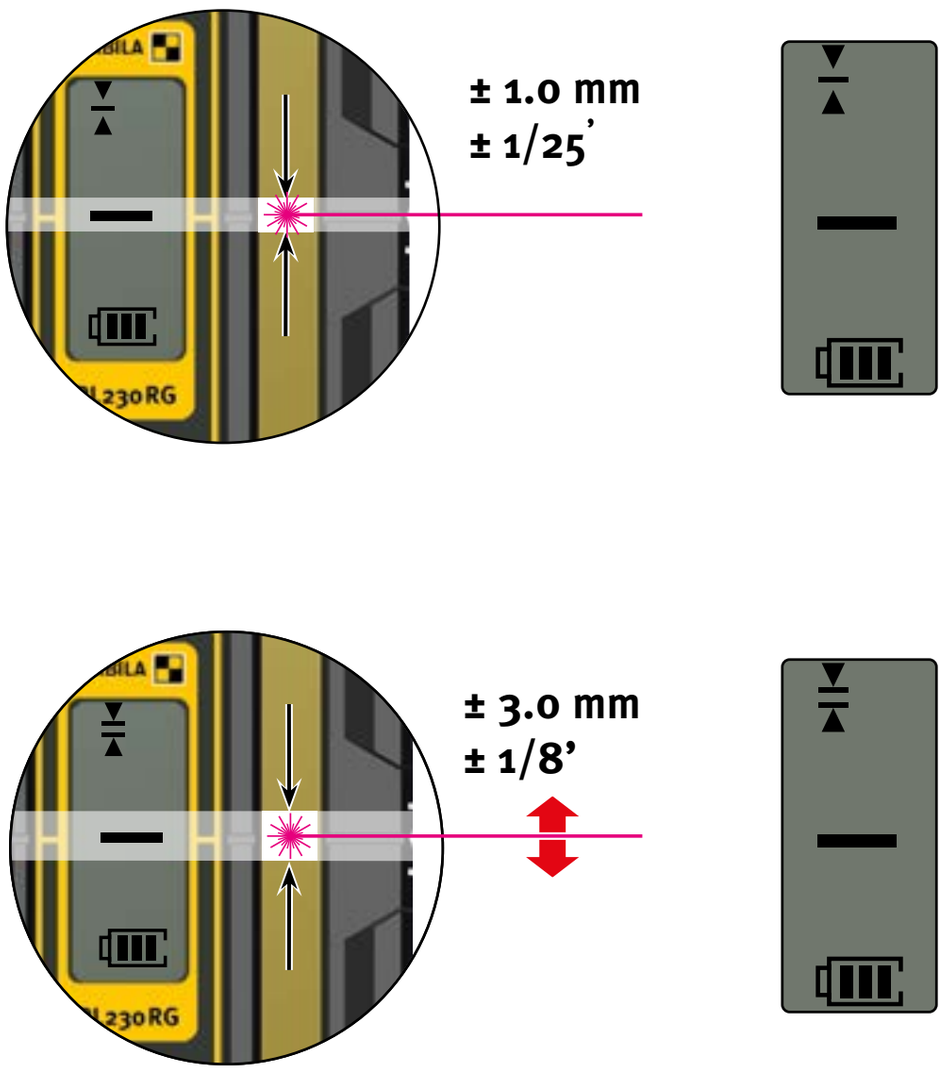
4.3 Lighting

Briefly press the ON/OFF button to switch the lighting of both displays on or off.

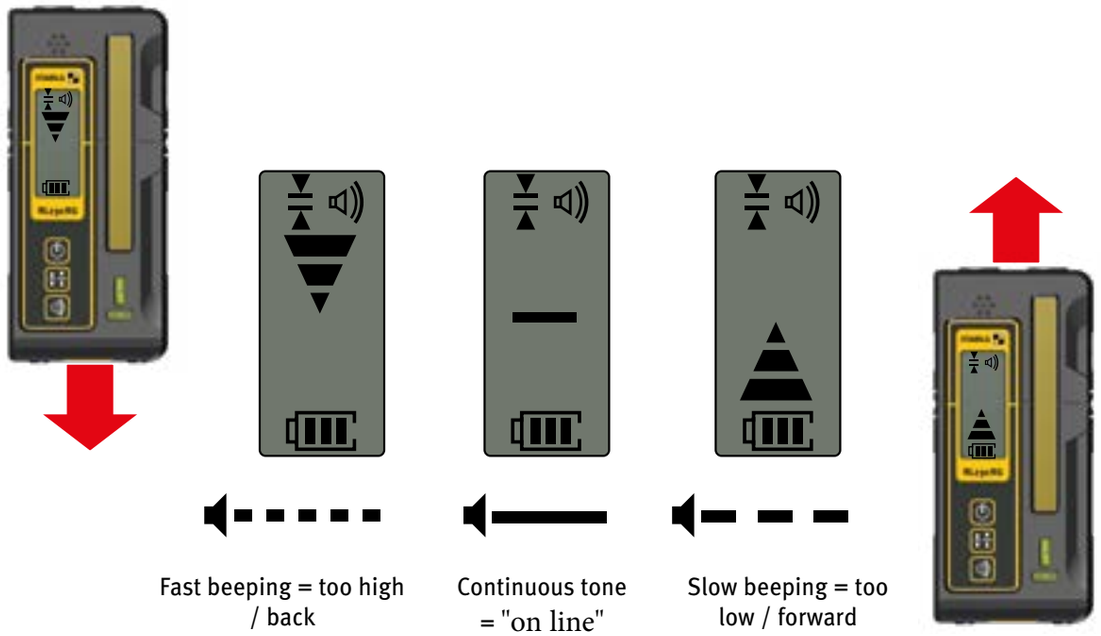
4.4 Setting the acoustic guidance

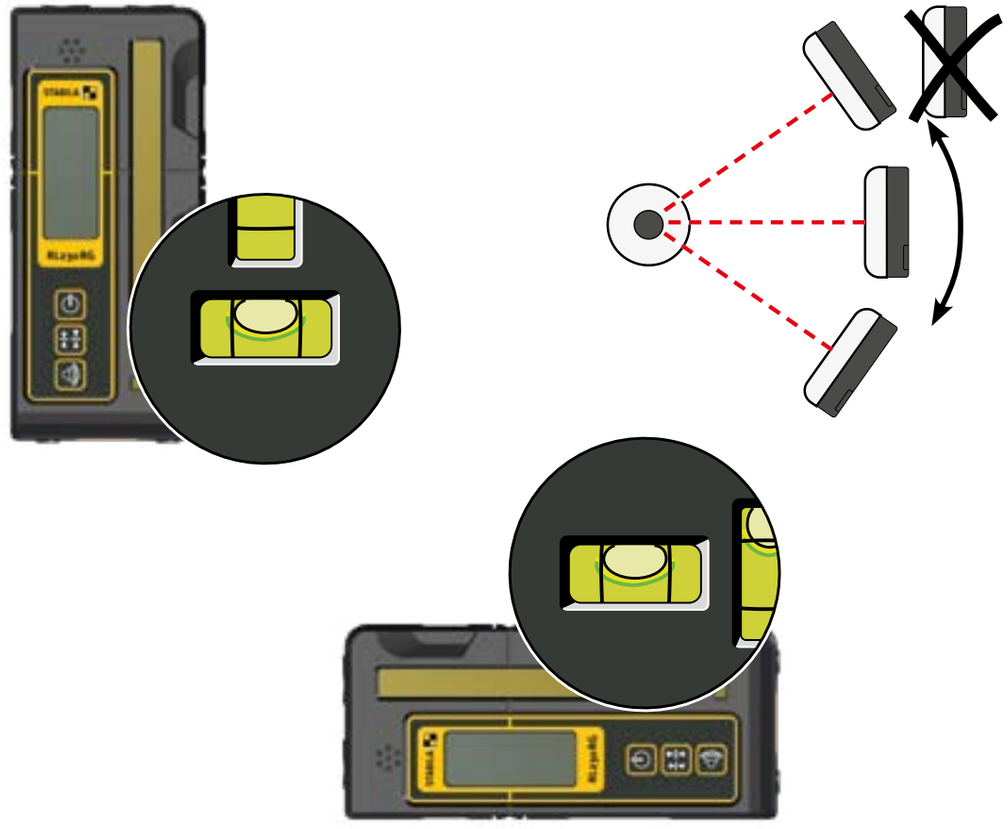
To adjust the volume, press the "Loudspeaker" button briefly and repeatedly:
loud, soft or off.
If the sound is turned off, only the display indicates when the laser beam is being received.



4.5 Adjusting the accuracy

The receiver always starts with the "fine" accuracy setting. Press the "Accuracy" button briefly and repeatedly to select the accuracy: "fine" = ± 1 mm (± 1/25’) and “rough” = ± 3 mm (± 1/8’).





5. Functions

5.1 Visual guidance

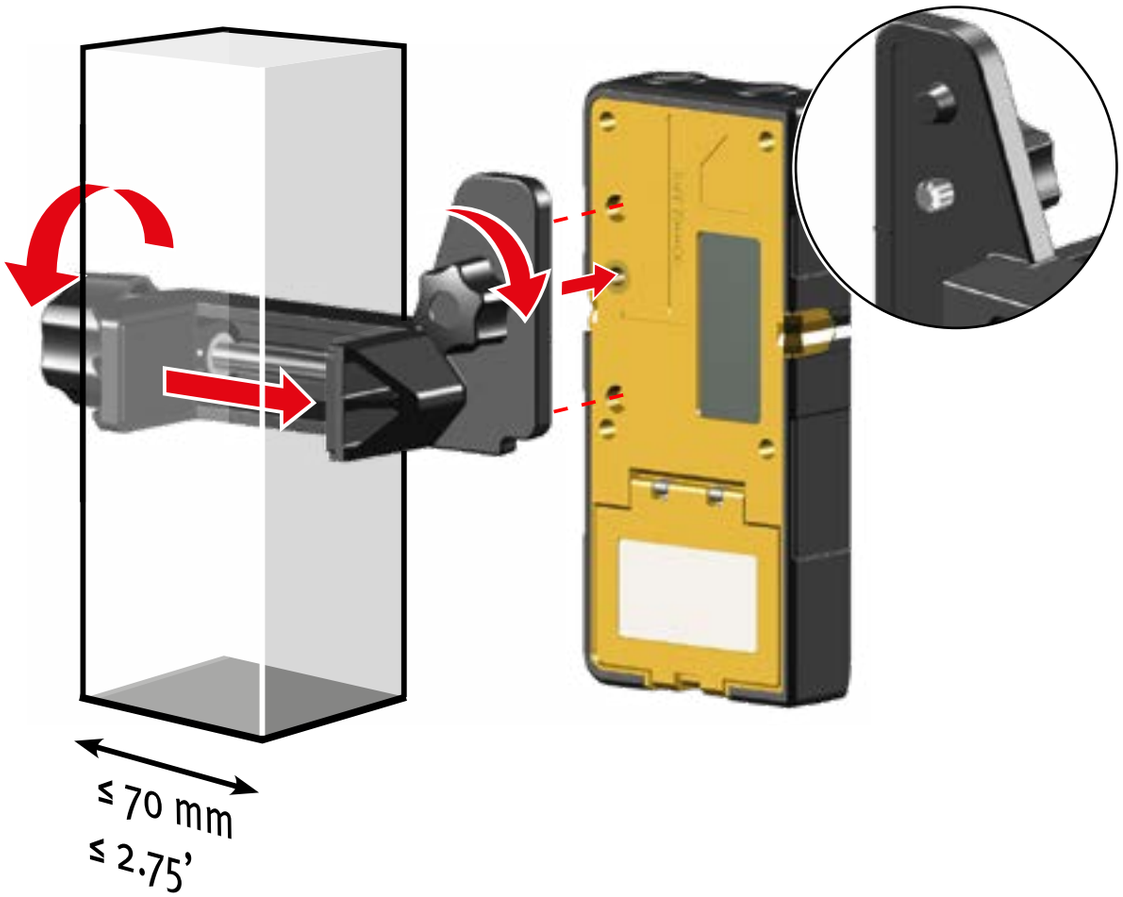
Display of height difference:
The arrows indicate whether the receiver is too high or too low in relation to the laser beam. The line in the middle indicates the "on line" position of the receiver.

5.2 Acoustic guidance

The acoustic guidance is activated/deactivated using the "Loudspeaker" button. A change in the acoustic signal indicates that the receiver is not in the "on line" position.
A continuous tone confirms the precise point at which the "on line" position is reached.

5.3 Positioning and aligning the receiver

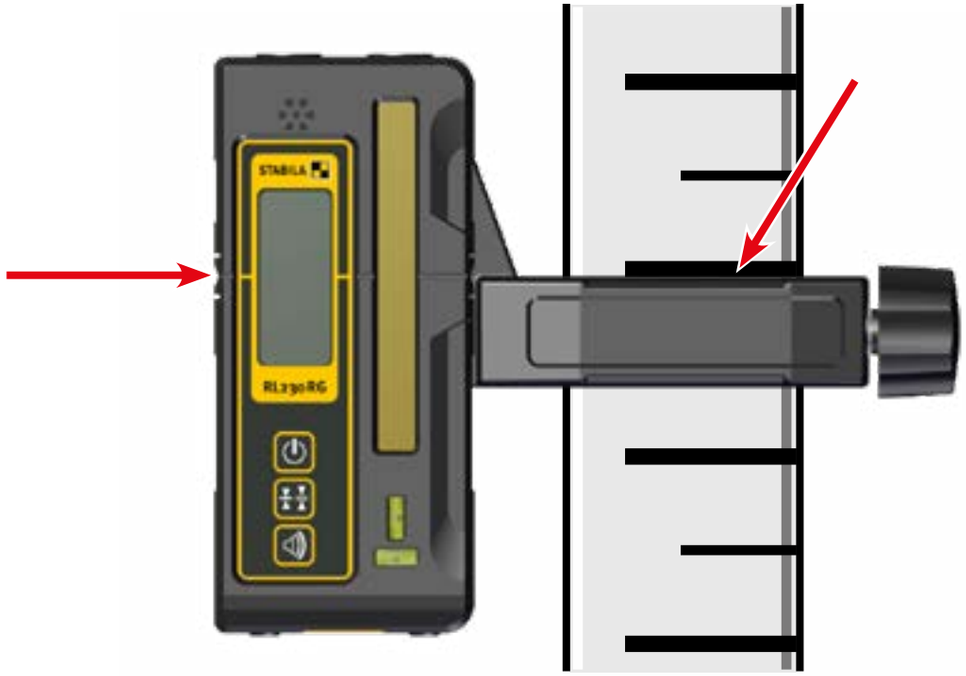
Proper handling is required to achieve a correct measurement result.
At close distances (≤ 4 m/≤ 13'), reflections (e.g. from windows) may result in incorrect measurements, so the result should always be checked for plausibility.
Interference may also occur in proximity to LED lamps, fluorescent lamps or spotlights, which can result in incorrect measurements. In all of these cases it is essential to carry out careful checks to avoid errors.



5.4 Retaining bracket

To attach:
Use the locating pins and the mounting screw to align and mount the retaining bracket on the rear of the receiver.

Locking screw:
Turn the screw to adjust the clamp and mount the retaining bracket and receiver on the measuring rod.



Reading reference:
To ensure that the unit is aligned precisely on the measuring rod, the reading reference on the retaining bracket is level with the "on line" marking on the receiver.

6. Technical data

Accuracy:		
	Fine:	± 1 mm / ± 1/25'
	Rough:	± 3 mm / ± 1/8’
Receiving spectrum:		500–680 nm
Acoustic signal:	Loud:	› 90 dBA
	Soft:	70–90 dBA
Batteries:		2 x 1.5 V alkaline, Mignon, AA, LR6
Battery life:		≥ 40 hours
Automatic switch-off:		30 minutes
Operating temperature range:		-10 °C to +50 °C / +14°F to +122°F
Storage temperature range:		-20 °C to +70 °C / -4°F to +158°F
Protection class:		IP 66

Subject to technical modifications.
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