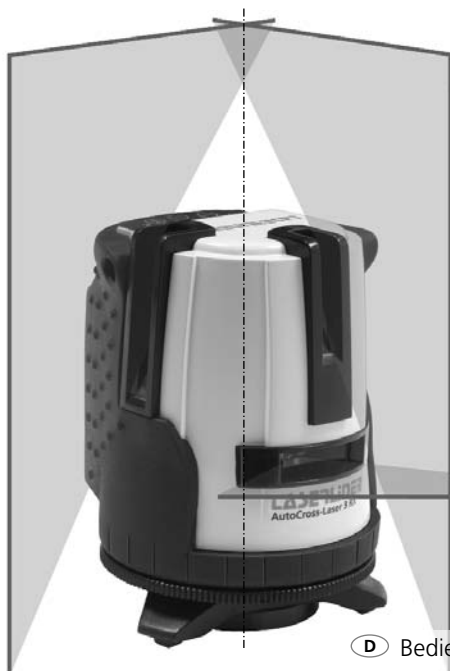


AutoCross-Laser ACL 3 RX

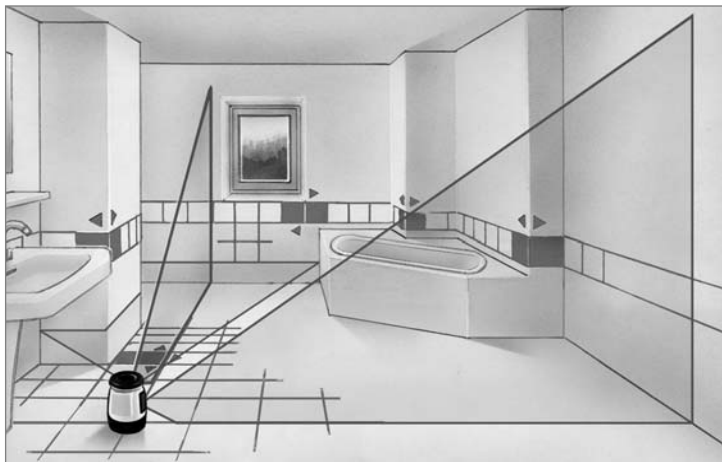
030.100A / Rev. 09.06



max.
50 m

- | | | |
|------------|---------------------------|-------|
| D | Bedienungsanleitung | 3-8 |
| GB | Operating instructions | 9-14 |
| NL | Gebruiksaanwijzing | 15-20 |
| DK | Betjeningsvejledning | 21-26 |
| F | Mode d'emploi | 27-32 |
| E | Instrucciones para su uso | 33-38 |
| I | Istruzioni d'uso | 39-44 |
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AutoCross-Laser ACL 3 RX



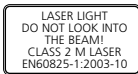
The crossline laser with laser receiver and 90° reference line

The laser receiver enables the laser lines to be recognised in all light conditions – therefore ideal for all indoor and outdoor applications. The two vertical lines therefore generate a 90° angle on the floor, and a perpendicular line can even be projected onto slanting walls. The slope mode allows the construction of inclines. With the laser cross at the top, a plumb line can be drawn. Laser 635 nm, automatic alignment through magnetically damped pendulum system, with 4.5° selflevelling range. Precision: 2 mm / 10 m, maximum range of laser receiver: up to 50 m radius.

Incl.: Laser receiver RX 50, universal mount, base, adjustment plate, softbag and batteries.

General safety instructions

Caution: Do not look directly into the beam. Lasers must be kept out of reach of children. Never intentionally aim the device at people. This is a quality laser measuring device and is 100% factory adjusted within the stated tolerance. For reasons of product liability, we must also draw your attention to the following: Regularly check the calibration before use, after transport and after extended periods of storage. We also wish to point out that absolute calibration is only possible in a specialist workshop. Calibration by yourself is only approximate and the accuracy of the calibration will depend on the care with which you proceed.

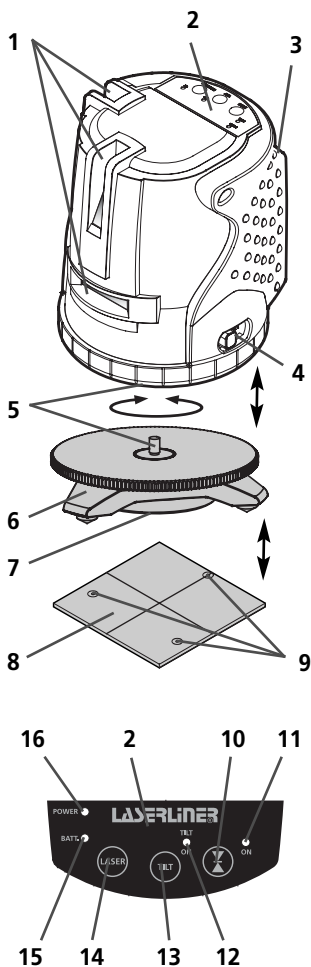


Note: This product is a precision instrument that must be handled and treated with care. Avoid shocks and impact. Always keep and carry in the case! Switch all lasers off and secure the pendulum. For cleaning, use a soft cloth and glass cleaner.

Warranty:

The warranty period is 2 years from the date of purchase. The warranty covers all material or manufacturing defects occurring during this time. The following are excluded from warranty: Damage due to improper use (e.g. operation with wrong type of current/voltage, connection to unsuitable power source, fall onto hard surface, etc.) or improper storage, normal wear and tear, and defects which only insignificantly impair the value or suitability for use. Any tampering by unauthorised persons will render this warranty void. In the event that you need to claim warranty, please take the complete device together with all information and the invoice to one of our dealers or send it in to Umarex-Laserliner.

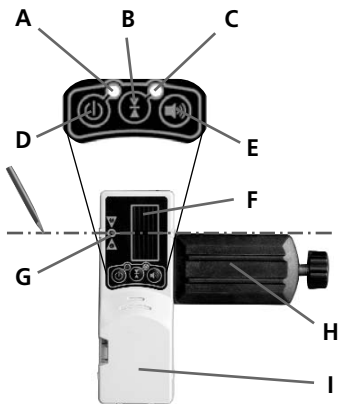
AutoCross-Laser ACL 3 RX



- 1 Laser exit window
- 2 Control panel
- 3 Battery compartment (on back)
- 4 ON / OFF switch
Transport securing device
- 5 1/4" thread
(ACL 3 RX: bottom of housing)
- 6 Base (rotatable)
- 7 5/8" thread (bottom of housing)
- 8 Adjusting plate for plumb function
- 9 Centring holes for plumb function
- 10 Hand receiver mode
- 11 Control lamp for hand receiver mode
- 12 Control lamp for tilt function
- 13 Tilt function
- 14 Laser selector button
- 15 Battery charge display
- 16 Operating display

Note:

For transport, the ACL 3 RX must always be switched off with the transport securing device (4) so as to protect device from damage.



- A Power indicator
- B Switch accuracy short range / long range
- C LED for accuracy green / red
- D ON / OFF switch
- E Sound ON / OFF
- F Receiver field for laser beam
- G LED's for Laser indication (front, side, backside)
- H Universal mount
- I Battery compartment (backside)

Inserting the batteries ACL 3 RX and Laserreceiver RX 50:

Open the battery compartment (3, I) and insert the batteries in accordance with the installation symbols, ensuring the correct polarity. Close the cover.

Horizontal and vertical levelling:

Move the ON / OFF switch (4) to the left and release the transport securing device. The horizontal laser shines continuously. Now select the lasers (button 14). Maximum visibility of the laser lines is achieved when hand receiver mode is switched off (button 10, control lamp 11 off).

IMPORTANT: Make sure that the tilt function is activated (tilt control lamp 12 on). If the laser subsequently blinks, this indicates that the device is outside of the self-levelling range of 4.5°. In this case, the device must be placed on a more level surface.

Slope mode:

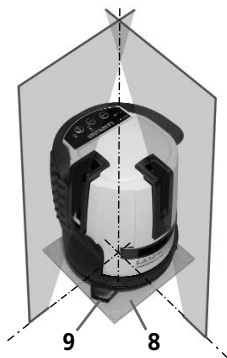
To generate slopes/gradients, the tilt function must be deactivated (button 13, tilt control lamp 12 off). The lasers will now shine continuously even if the device is positioned at an angle for generating a slope/gradient. For horizontal and vertical levelling, reactivate the tilt function.

AutoCross-Laser ACL 3 RX

Plumb definition:

Through the laser cross at the top, a plumb line can be projected from the floor to the ceiling. To do this, centre the adjusting plate on the desired projection point. Then screw the base (6) onto the device and position in the centring holes (9) of the adjusting plate (8). Now switch the device on (switch 4) and select the appropriate laser (button 14). The laser cross at the top is now exactly perpendicular above the desired projection point.

IMPORTANT: The tilt function must be activated (control lamp 12 on)



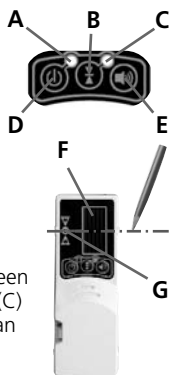
Working with the laser receiver RX 50:

For levelling over longer distances or in conditions of bright light, use the laser receiver RX 50. Switch on with button D; control lamp A will light up.

IMPORTANT: Set the ACL 3 RX to hand receiver mode (button 10). The laser lines will now pulsate with high frequency (10 kHz), making the laser lines darker. The laser receiver can detect these pulsating laser lines up to a maximum distance of 50 m.

Now move the receiver field (F) of the laser receiver through the laser lines upwards and downwards (horizontal laser line) and/or sideways (vertical laser line) until the centre LED (G) lights up. Now mark the horizontal and/or vertical reference dimension.

Adjust the sensitivity of the laser receiver with button B. Green LED (C) for close-range working up to max. 15 m, red LED (C) for distance-range working up to max. 50 m. The sound can be switched on or off with button E.



Note:

The light intensity of the laser lines is highest in the middle and lessens towards the edges. The maximum range of the laser receiver therefore also changes accordingly: Green LED max. 7 – 15 m, red LED max. 30 – 50 m.

Universal mount:

The laser receiver RX 50 can be fitted on measuring staffs with the universal mount. The Flexi measuring staff (Art. No. 080.50) is always recommended when measuring from floor heights. It also allows you to determine heights directly without any need for calculation.



Technical data

| | |
|---|-----------------------------------|
| Self-levelling range | $\pm 4,5^\circ$ |
| Precision | $\pm 2 \text{ mm} / 10 \text{ m}$ |
| Working range with laser receiver | max. 50 m |
| Laser wavelength | 635 nm |
| Laser class / Laser output rating line lasers | 2M / < 5 mW |
| Power supply ACL 3 RX / battery life | 3 x 1,5V AA / ca. 20 h |
| Power supply laser receiver RX 50 | 1 x 9V Block |
| Weight ACL 3 RX | 0,8 kg |
| Operating temperature | 0°C ... +50°C |
| Storage temperature | -10°C ... + 70°C |
| Order number | 030.100A |
| Subject to technical alterations | 07/2006 |

Note:

Regularly check the calibration before use, after transport and after extended periods of storage.

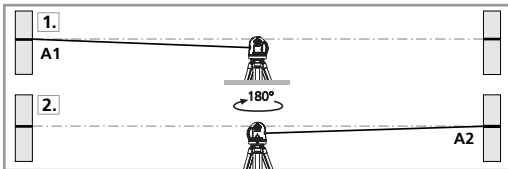


AutoCross-Laser ACL 3 RX

Preparing the calibration check:

It is possible for you to check the calibration of the laser. To do this, position the device **midway** between 2 walls, which must be at least 5 metres apart. Switch the device on (**LASER CROSS AND TILT FUNCTION ON**). Please use a tripod.

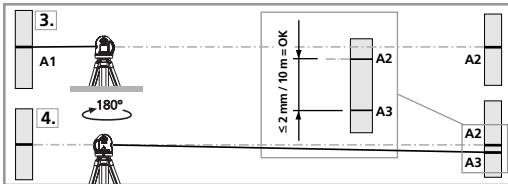
1. Mark point A1 on the wall.



2. Turn the device through 180° and mark point A2. You now have a horizontal reference between points A1 and A2.

Performing the calibration check:

3. Position the device as near as possible to the wall at the height of point A1.



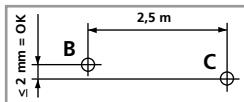
4. Turn the device through 180° and mark point A3. The difference between points A2 and A3 is the tolerance.

Note: If points A2 and A3 are more than 2 mm / 10 m, the device is in need of calibration. Contact your authorised dealer or else the UMAREX-LASERLINER Service Department.

Checking the vertical line: Position the device about 5 m from a wall. Fix a plumb bob with a line of 2.5 m length on the wall, making sure that the bob can swing freely. Switch on the device and align the vertical laser to the plumb line. The precision is within the specified tolerance if the deviation between the laser line and the plumb line is not greater than ± 1.5 mm.

Checking the horizontal line:

Position the device about 5 m from a wall and switch on the cross laser. Mark point B on the wall. Turn the laser cross approx. 2.5 m to the right and mark point C. Check whether the horizontal line from point C is level with point B to within ± 2 mm. Repeat the process by turning the laser to the left.

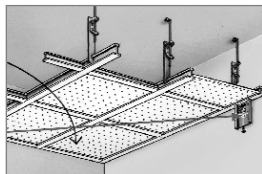


AutoCross-Laser ACL 3 RX

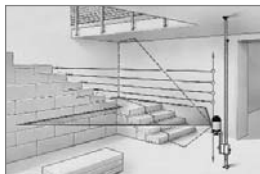
- Ⓓ **Zubehör (optional)**
- ⒼⒸ **Accessories (optional)**
- ⒶⒻ **Accessoires (optioneel)**
- ⒹⓀ **Tilbehør (flere typer)**
- Ⓕ **Accessoires (en option)**

- Ⓔ **Accesorios (opcional)**
- Ⓘ **Accessori (optional)**
- ⒶⒻ **Aksesoria (opcja)**
- ⒻⒶ **Lisämahdollisuuksia valinnaisvarusteilla**
- Ⓐ **Acessórios (opcional)**

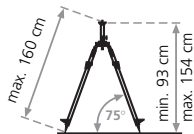
Art.-Nr: 023.61A



Art.-Nr: 090.120



Art.-Nr: 080.30



www.laserliner.com



AutoCross-Laser ACL 3 RX



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EN60825-1:2003-10



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