

AutoCross Laser ACL 2

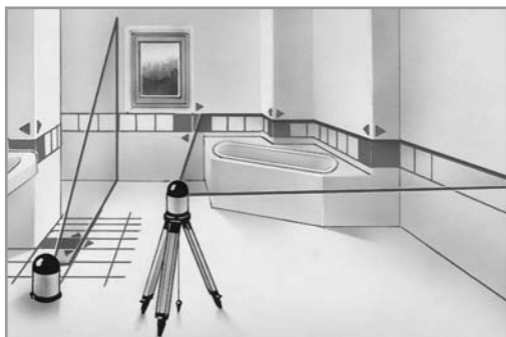
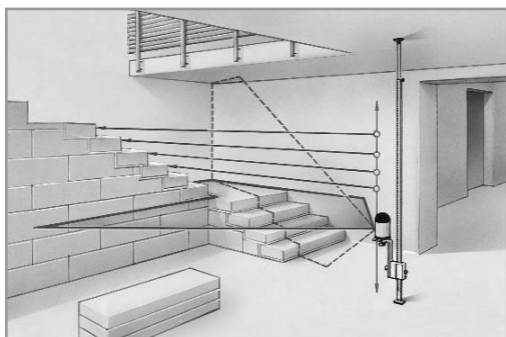
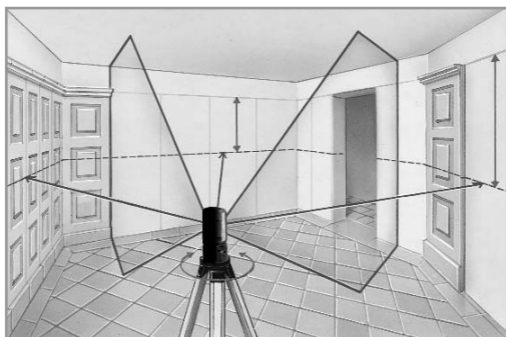


8.031.96.02.1 / Rev.0507

Laserliner®
Innovation in Tools

| | | |
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AutoCross Laser ACL 2



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Automatic crossline laser

The compact laser for indoor working; extremely easy to operate. The entry-level crossline laser, laser wavelength 635 nm. Automatic alignment through pendulum system, with 3°-6° self-levelling range, magnetically damped. The magnetic base for tripod-mounted applications. The unit can also be secured to the wall. With additional hand receiver mode: this unit can be equipped with an optional Laser receiver.

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.



- | | |
|---|---|
| 1 Battery compartment cover | 7 Magnets |
| 2 ON / OFF-Switch Transport securing device | 8 Slot for fixing strap |
| 3 Thumbwheel | 9 5/8" nut for connection to construction tripod |
| 4 Laser emitting window | 10 Hand receiver mode |
| 5 1/4" nut (connection to magnetical mount) | 11 Indicator lamp |
| 6 1/4" nut for con. to camera tripod | |

Note: For transport, the ACL 2P RX must always be switched off with the transport securing device (2) so as to protect device from damage.

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Inserting the batteries

Open the battery compartment (1) and insert the batteries in accordance with the installation symbols, ensuring the correct polarity. Close the cover.

Switch on

Switch the unit on. A cross line will be projected.

RX-Ready

This unit can be equipped with an optional Laser receiver. With the laser receiver the laser lines can be seen under all light conditions until a max. range of 50 m.

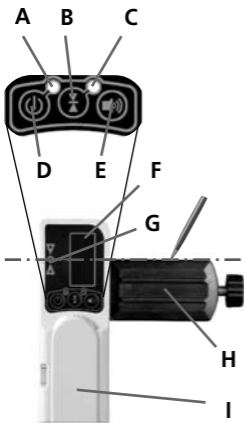
Note: If the device is positioned too much out of level (more than 3° or 6°), the laser will blink and an acoustic warning signal will sound. Position the device on a more level surface.

Technical Data

| | | |
|--|-------------------------------|--------------------------------|
| Automatic levelling range | side-side forward-backward | $\pm 3^\circ$ $\pm 6^\circ$ |
| Accuracy | | ± 3 mm / 10 m |
| Operating range (depending on room illumination) | | 20 m |
| Power supply | | 3 x 1,5V AA / ca. 48 h |
| laser wavelength | | 635 nm |
| Laser class | | 2M / < 5mW |
| Weight | | 0,5 kg |
| Operating temperature | | 0°C to +50°C |
| Storage temperature | | -10°C to + 70°C |
| Optional: Working range Laserreceiver | | max. 50 m |
| Subject to technical changes without notice | | 11/2006 |

Note:

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



- 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)



Optional:

Working with the laser receiver RX 51

For levelling over longer distances or in conditions of bright light, use the laser receiver RX 51. Switch on with button D; control lamp A will light up.

IMPORTANT: Set the ACL 2 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.

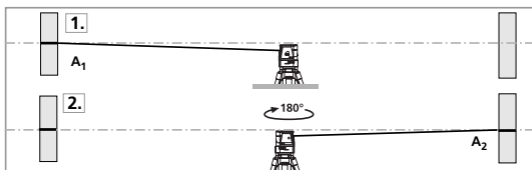
Note: The light intensity of the laser lines is highest in the middle and lessens towards the edges. The maximum range of the laser receiver therefore also changes accordingly: Green LED max. 7 – 15 m, red LED max. 30 – 50 m.

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Preparing the calibration check:

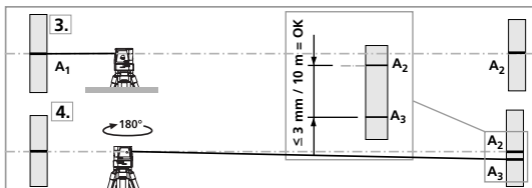
It is possible for you to check the calibration of the laser. To do this, position the device **midway** between 2 walls, which must be at least 5 metres apart. Switch the device on (indicator lamp 11 off). The best calibration results are achieved if the device is mounted on a tripod.

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



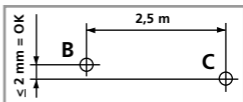
Note: If points A2 and A3 are more than 3 mm / 10 m apart on either, the device is in need of calibration. Contact your authorised dealer or else the UMAREX-LASERLINER Service Department.

Testing accuracy of vertical line

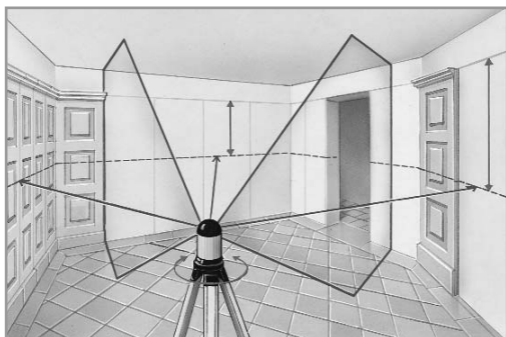
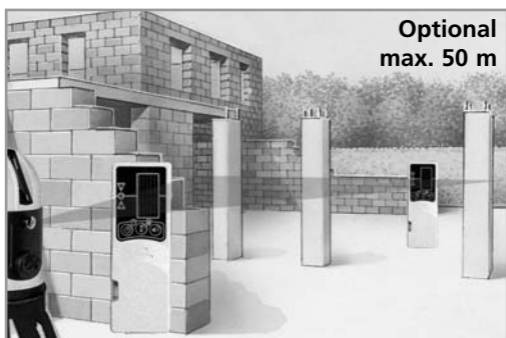
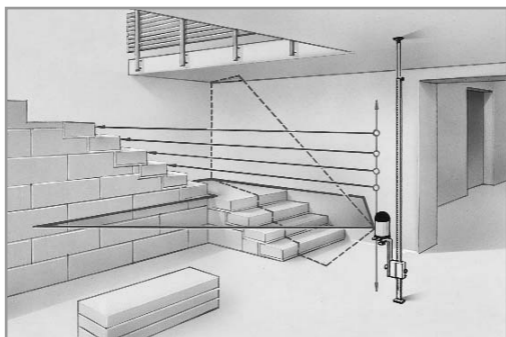
Set up instrument about 5 m from a wall. Fix a plumb line of 2.5 m length to the wall, using a plumb bob. Press button V1 or V2 and bring laser line into coincidence with the plumb line. Deviation between laser line and plummet cord from top to bottom must not exceed ± 1.5 mm.

Testing accuracy of horizontal line

Set up instrument about 5 m from a wall. Press buttons H and V1. Mark laser cross on wall. Turn instrument until the laser cross has moved about 2.5 m to the left side and check if horizontal line is within ± 2 mm of laser cross marked on wall. Repeat measurement by turning instrument to the right side.



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- ⓓ **Zubehör (optional)**
- Ⓒⓑ **Accessories (optional)**
- ⓃⓁ **Accessoires (optioneel)**
- ⒹⓀ **Tilbehør (ekstra-udstyr)**
- Ⓕ **Accessoires (en option)**
- Ⓔ **Accesorios (opcional)**
- Ⓘ **Accessori (optional)**
- ⓅⓁ **Akcesoria (opcja)**
- ⒻⒿ **Lisämahdollisuuksia valinnaisvarusteilla**
- Ⓟ **Acessórios (opcional)**
- ⓇⓊⓈ **Дополнительные принадлежности**



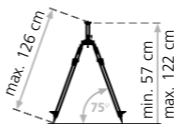
RangeXtender RX 51 Set
Art.-Nr: 033.20-1



Art.-Nr: 090.120



Art.-Nr: 080.29

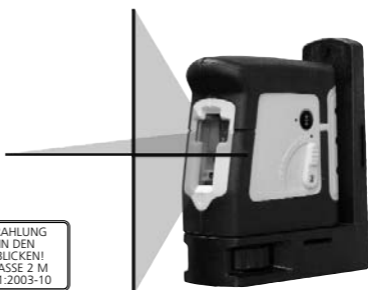


max. ca. 330 cm

AutoCross Laser ACL 2



LASERSTRAHLUNG
NICHT IN DEN
STRAHL BLICKEN!
LASER KLASSE 2 M
EN60825-1:2003-10



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di spedizione

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(FIN)

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(P)

Endereço de serviço e
envio

(RUS)

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