

# Greenline-Laser 1 Pro



036.00.00A / Rev 09.06

<b>D</b>	Bedienungsanleitung	3-8
<b>GB</b>	Operating instructions	9-14
<b>NL</b>	Gebruiksaanwijzing	15-20
<b>DK</b>	Betjeningsvejledning	21-26
<b>F</b>	Mode d'emploi	27-32
<b>E</b>	Instrucciones para su uso	33-38
<b>I</b>	Istruzioni d'uso	39-44
<b>PL</b>	Instrukcja Obsługi	45-50
<b>FIN</b>	Käyttöohje	51-56
<b>P</b>	Instruções de uso	57-62

## Green line laser for all floor and wall work.

Greenline-Laser, 522-542 nm, for ground applications as well as for horizontal and vertical levelling directly on the wall. The length and intensity of the laser line can be adjusted. The laser is fixed to the wall using special pins and precisely aligned through the eccentric adjustment. Parallel shifts can be performed through the exact alignment of the laser line to the body edges. Additional magnets on the underside also allow the device to be mounted on steel structures. Precision: 3 mm / 10 m.

**Incl.:** High-performance rechargeable battery, mains unit / battery charger, laser enhancement glasses and carrying case.

## 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.



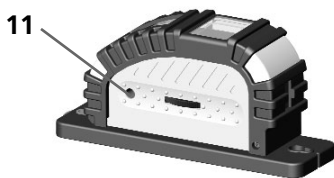
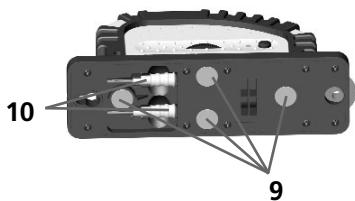
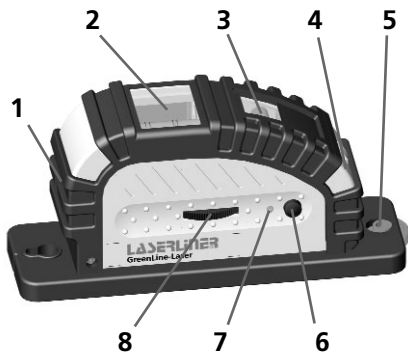
### Note:

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! 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.

# Greenline-Laser 1 Pro



- 1 Laser exit window
- 2 Horizontal spirit level for applications on walls
- 3 Vertical spirit level for applications on walls
- 4 Battery compartment
- 5 Eccentric adjustment
- 6 On/off switch
- 7 Operating display
- 8 Adjustment wheel for adjusting the intensity distribution and length of the laser line
- 9 Magnets
- 10 Fastening pins
- 11 Mains adapter/charger connecting socket

**Note:** The horizontal and vertical spirit levels are intended solely for applications on walls. The spirit levels are not suitable for floor applications because they are not adjusted to the bearing area. Therefore the device cannot be used as a water level.

## Green laser technology

Unlike red lasers, green laser light can only be indirectly generated. Because of the system, therefore, fluctuations may occur:

- Different levels of line brightness between one device and another.
- The optimum operating temperature is 20°C. Outside of the working temperature range of 0-40°C, green lasers become darker.  
TIP: Before switching on the device, wait until it has had time to adjust to the ambient temperature.

These fluctuations are excluded from claims.

## Charging the accu

- Before using the Greenline-Laser 1 Pro, fully charge the accu.
- Open the battery compartment (4), insert the accu and connect the plug to the socket. The plug fits in the socket in one position only. Reclose the battery compartment.
- Connect the battery charger / mains unit to a mains source and plug into the socket (11). Please only use the charger/mains unit supplied with the device. If a different one is used, the warranty will become void.
- The device can also be operated with standard alkali batteries (4 x type AA). Insert the batteries as shown by the installation symbols. Ensure the polarity is correct.
- If the LED (7) blinks constantly, either the batteries must be exchanged or the accu recharged.



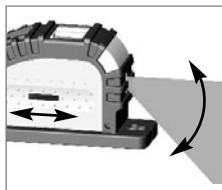
**Note:** Do not expose batteries to excessive heat such as sunshine, fire, etc. Dry batteries must not be recharged. Used batteries must not be disposed of as household waste. Please take them to a collection point for used batteries or for special waste. Ask your local authority for further details. Batteries with the recycling symbol can also be returned to our dealerships or to our Technical Service.

# Greenline-Laser 1 Pro

Due to the physiology of the human eye green appears brighter to us than red. Therefore green lasers are highly visible compared to customary red lasers. They enable applications on dark surfaces, longer distances and performance of work in very bright ambient light.

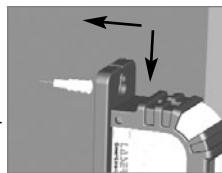
## Floor applications

- Put the device on the floor and switch it on using the on/off switch (6).
- A green laser line is projected. The intensity distribution and length of the laser line can be adjusted using the adjustment wheel (8). Thus maximum visibility of the laser line is guaranteed, particularly on dark floors, in very bright ambient light or on uneven surfaces.
- The spirit levels (2,3) do not have any function in this application area, see also the note on page 10.
- 45° and 90° angles can be installed with the optional installation plate (Art. no.: 036.01), see next page.



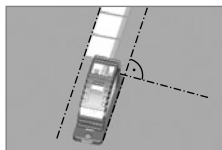
## Wall applications

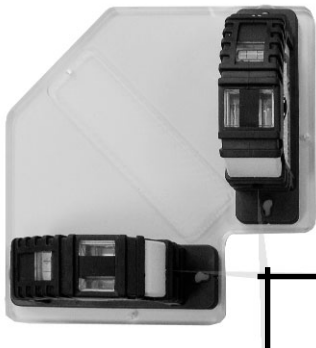
- First fix one of the two fastening pins (10) in the desired position on a drywall.
- Then attach the device with the fastening hole at the front to the pin, pre-adjust it horizontally and/or vertically with the spirit levels (2,3) and fix it on the wall with the second pin.
- Align the device exactly horizontally and/or vertically with the eccentric adjustment and the fastening pins. Adjust the intensity distribution if required (Adjustment wheel 8).
- **IMPORTANT:** For horizontal levelling always carry out alignment with the upper spirit level!



## Parallel projection

The body edges can be used to carry out parallel translations and depict 90° angles.





## Working with accessories

Floor tiles can be installed exactly and efficiently with the optional installation plate (Art. no. 036.01). Now the device can easily project 45° and 90° alignments. Work can be performed with one as well as several devices.

## Technical data

Precision	± 3 mm / 10 m
Working range (depending on ambient brightness)	ca. 30 m
Laser wavelength	522 – 542 nm
Line laser / Laser output rating	Classe 2 M / < 5 mW
Rechargeable battery operating time / Recharging time	ca. 8 h / ca. 16 h
Battery operating time	ca. 16 h / 4 x Typ AA
Weight	0,5 kg
Operating temperature	0°C ... + 40°C
Storage temperature	-10°C ... + 70°C
Order number	036.00.00 A
Subject to technical alterations	09/2006

### Note:

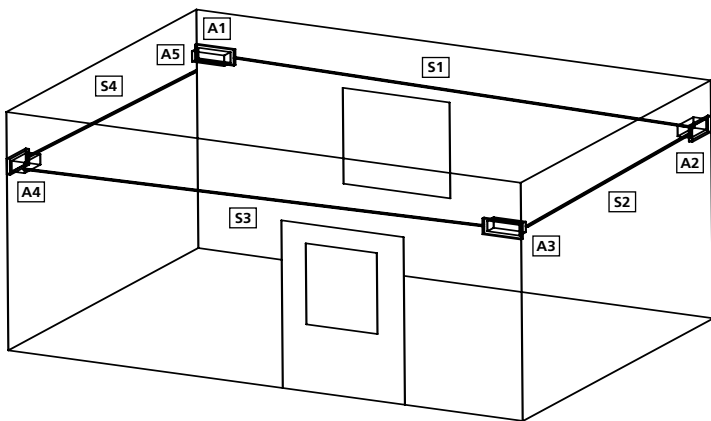
Regularly check the calibration before use, after transport and after extended periods of storage.



# Greenline-Laser 1 Pro

## Checking horizontal calibration:

1. Mark point A1 on the wall. Attach the device in the centre of point A1, align it, and switch it on. Adjust the laser line so that it reaches the end of the wall, see page 12.
2. Mark point A2 and continue until point A5 is marked. Divide the distance between A1 and A5 by the overall length ( $S1 + S2 + S3 + S4$ ). The device is within the tolerance if the difference between A1 and A5 is not greater than  $3 \text{ mm} / 10 \text{ m}$ .



### Note:

If points A1 and A5 are more than  $3 \text{ mm} / 10 \text{ m}$ , the device is in need of calibration. Contact your authorised dealer or else the UMAREX-LASERLINER Service Department.

## Checking vertical calibration:

Fix a plumb bob with a line at least 2.5 m in length on the wall, making sure that the bob can swing freely. Attach the device at the end of the plumb line in the centre, align it vertically and switch it on. The precision is within the tolerance if the deviation between the laser line and plumb line is not greater than  $3 \text{ mm} / 10 \text{ m}$ .

# Greenline-Laser 1 Pro



LASERSTRAHLUNG  
NICHT IN DEN  
STRAHL BLICKEN!  
LASER KLASSE 2 M  
EN 60825-1:2003-10



**(D)**

## Service- und Versand-Anschrift:

Service-Telefon +49 2932 638-486

Fax +49 2932 638-489

**(GB)**

## Service- and Shipping Address:

Service phone +49 2932 638-300

Fax +49 2932 638-333

**(NL)**

## Service- en verzendadres:

Servicetelefoon +49 2932 638-300

Fax +49 2932 638-333

**(DK)**

## Service- og Postadresse

Service-Telefon +49 2932 638-486

Fax +49 2932 638-489

**(F)**

## Livraison et expédition:

Telefon: +49 2932 638-300

Fax +49 2932 638-333

**(E)**

## Dirección de envío y de servicio post-venta:

Telefon: +49 2932 638-300

Fax +49 2932 638-333

**(I)**

## Indirizzo servizio manutenzione - Indirizzo di spedizione

Telefono +49 2932 638-300

Fax +49 2932 638-333

**(PL)**

## Adres serwisu i wysyłki:

Telefon Serwisu +49 2932 638-300

Fax +49 2932 638-333

**(FIN)**

## Huolto- ja lähetysosoite:

Puhelin +49 2932 638-300

Fax +49 2932 638-333

**(P)**

## Endereço de serviço e envio:

Telefone +49 2932 638-300

Fax +49 2932 638-333

**Umarex GmbH & Co KG**

– Laserliner –

Möhnstraße 149, 59755 Arnsberg, Germany

laserliner@umarex.de

**UMAREX**® GmbH & Co KG

Donnerfeld 2

59757 Arnsberg, Germany

Tel.: +49 2932 638-300, Fax: -333

www.laserliner.com

**LASERLINER**®  
Innovation in Tools