Instruction manual

Cross-line Laser

51714

Illustration similar, may vary depending on model

Please read and follow the operating instructions and safety information prior to initial operation.

Technical changes reserved!
Illustrations, functional steps, and technical data may deviate insignificantly due to continuous further developments.

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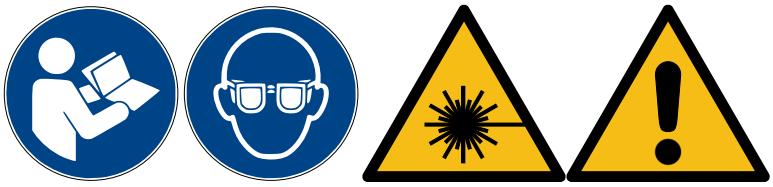
Introduction

Thank you for choosing to purchase this quality product. To minimise the risk of injury, we ask you to always take some basic safety precautions when using this product. Please read this operating manual carefully and make sure that you understand it.
Keep these operation instructions in a safe place.

Intended use

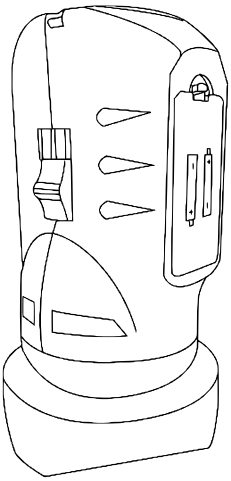
This device emits a visible laser beam that allows for example to do the following measurement tasks: determining heights, right angles, orienting horizontal and vertical reference planes, and perpendicular points.



Safety instructions

- Obey the instructions of this manual.
- Read the manual before using the device.
- Do not open this device in a damp or wet area or with yourself being wet and protect it from direct sunlight.
- Ensure sufficient cooling by ambient air et avoid heat accumulation.
- To clean the device, only use a damp cloth for cleaning. Avoid using cleaning agents and make sur that liquids may not enter the device.
- The inner parts of the device do not contain components requiring maintenance by the user. Leave all maintenance, control, and repair works to a qualified person. With an unqualified person intervening, the 2-years warranty will expire. Keep these operation instructions in a safe place.
- Never look into the laser beam, either directly or with optical instruments. There is a risk of eye injury.
- Never direct the laser beam toward persons or animals.
- The laser level must be above eye height.
- Never open the housing. Leave any repair work to authorised specialised dealers.
- Do not remove warning and safety notices.
- Do not allow that children use this device.
- Do not operate the device in explosive areas.

Before using a construction laser, you should know about its fundamental features and the potential risks that a rotary or cross-line laser might cause. It is essential to take the necessary safety measures to avoid any kind of danger or accident potentially arising from construction lasers being operated.



Even with low intensity, a laser beam can injure the eyes if one looks directly into it. Therefore, you must use eye protection. When using a rotary or cross-line laser, you should wear safety goggles. Never look directly into the beam and make sure that you do not direct the beam towards the eyes. A construction laser must not be adjusted or mounted to the height of the head. Furthermore, it must not be installed near a reflecting surface to avoid any risk caused by reflection. For safety reasons, the construction laser must be installed in such a way that the laser level is either above or below the user's head, so that the beam cannot come into direct contact with the eyes while the user walks or stands normally.

It is prohibited to direct the laser beam directly towards other persons, vehicles, conductors, or pets. The laser beam can injure pets in the same manner than it injures human beings. The laser beam can injure the eye of a pet; therefore, one must be very careful not to injure oneself or others. Blinding conductors can lead to severe accidents. While using the construction laser, always take the surrounding area into consideration.

Switch off the construction laser when it is not in use or whenever you cannot observe it. Secure the device by using the lock bar on the side.

The construction laser is not a toy. Make sure that children cannot use it or play with while being unsupervised. Risk of injuries!

The laser beam, having a wavelength of 650 nm, matches laser class 2 whose maximum output power is limited to 1 mW. Protective goggles do not protect you from direct or reflected laser beams. Therefore, always make sure not to direct the laser beam towards reflecting surfaces. The laser device is intended for use on wood or tough surfaces. Shiny or brilliant surfaces, e.g., steel sheets, are not suitable for the reflecting surface might reflect the beam towards the user.

The laser is not suitable for use during strong sunlight, for the beam might not be visible under these conditions.

Never use the construction laser near flammable liquids, dust, or gases, for the beam, even with a low laser class, might cause flammable gases or highly-concentrated airborne dust to explode, especially if the laser beam is concentrated on a very small zone. It is strongly recommended to thoroughly check the area where the construction laser shall be used. Make sure to have an operational fire-extinguisher at hand.

Conditions that might falsify the measurements:

- measuring through glass or plastic panels; untidy laser emitting window;
- downfall or heavy stroke; in that case, check accuracy;
- strong temperature change: In case the device, coming from a cold area, is brought to a warm one, and vice versa, wait several minutes before use.

Technical specifications

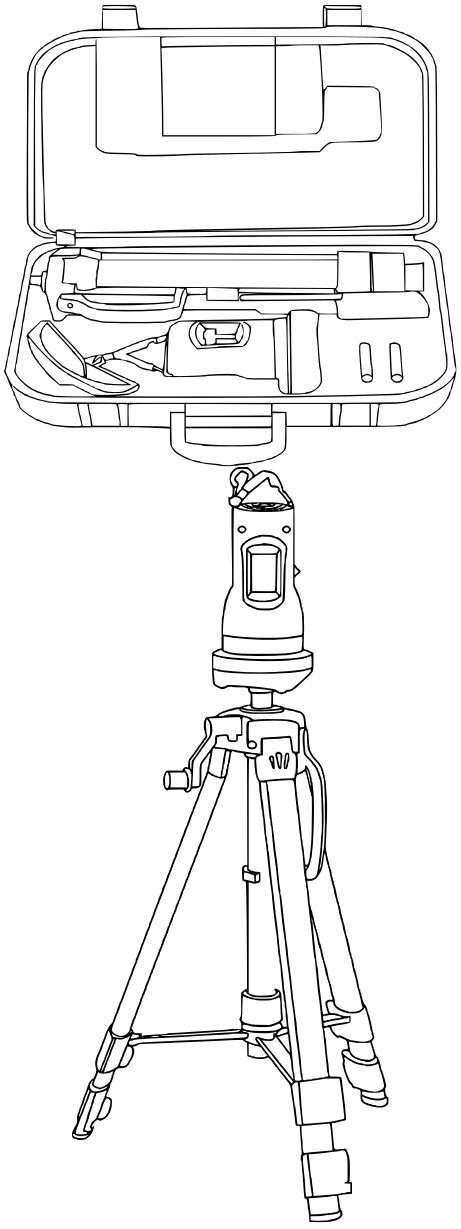
Laser class	II
Output power (mW)	1
Measuring range (m)	3–10 (depending on the light intensity in the working area)
Wavelength (nm)	650
Accuracy of bubble level ($^{mm}/_{m}$)	1.0
Accuracy of construction laser ($^{mm}/_{m}$)	line: ±0,5 cross: ±0,5
Power supply	2 × 1.5 V AA batteries (not included)

Description

Whether you want to hang papers, place lamps in the centre of a room, fix curtain rails, lay parquet, or laminate, this cross-line laser is your ideal assistant, helping you to accurately do all these works. Being self-levelling, the device can generate vertical, horizontal, or cross-shaped lines that are always straight. Thus, objects can be place at the desired spot on floors, walls, and ceilings.

With the tripod included, the laser can be adjusted to the desired height, making work flexible especially in closed rooms.

The laser unit and the tripod come inside a box that the device can easily and safely be transported with.

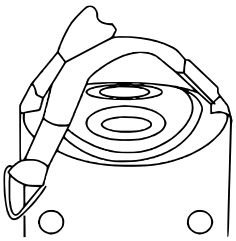


Assembly

Unfold the tripod and place it on a level and straight surface. Make sure that the tripod cannot tilt over. Use the telescopic sticks to compensate for unevenness of the surface. Align the tripod with the help of the bubble level on the upper side.

Screw the base on the tripod. The construction laser can be used with or without the tripod.

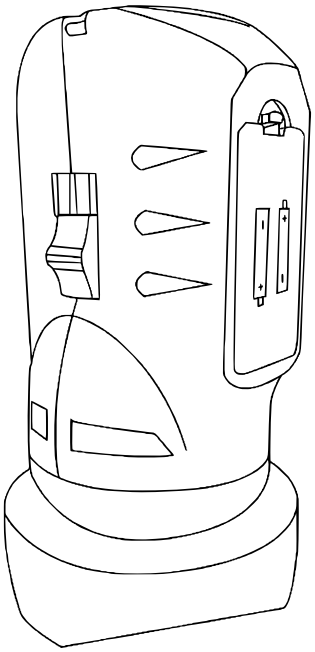
Commissioning



Open the battery case cover on the rear side of the device to insert two batteries (1,5 V AA batteries, not included).

Press the two buttons on the upper side to switch on the device. Switch off the device in the same manner.

ATTENTION: Recycle the batteries. Toxic waste must not be disposed of with household waste.



Using the construction laser

- Press either the button for the vertical or the button for the horizontal laser beam on the upper side of the device. The construction laser now generates a vertical, horizontal, or cross-shaped laser beam.
- The status lights next to the buttons show you which button you have pressed.
- Unscrew the adjusting screws on the underside of the device so that the device can level itself within approx. 10 s. In case the lines do not move, check if the screw is sufficiently unscrewed.
- The levelling is finished when the lines do not move any longer.
- The construction laser can be rotated 360° by hand.
- Please note that the construction laser only can level itself in a 1–6° angle. If the surface must large an angle, the device cannot level itself any more.

Application of rotary lasers

Indoor use of rotary lasers is for working on floors or ceilings, and for constructing walls. You can also use the laser to hang up pictures or to assemble frames or shelves.

Outdoor use of rotary lasers is for wide-spread applications, e.g., pouring foundations, initially measuring buildings, constructing terraces and parking sites. Construction lasers are especially used for measuring lengths and heights. Furthermore, construction lasers assist the user with determining building lines.

Regulations for waste disposal

The Waste Electrical and Electronic Equipment Directive (WEEE Directive, 2012/19/EU) of the EU was implemented in the German law related to electrical and electronic equipment and appliances.

All WilTec electric devices that fall under the WEEE directive are labelled with the symbol of a crossed-out wheeled rubbish bin. This symbol indicates that this electric device must not be disposed of with the domestic waste.

WilTec Technik GmbH is registered with the German registration authority EAR (Stiftung Elektro-Altgeräte Register) under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic devices (intended for use in the countries of the European Union and other European countries with a separate waste collection system for these devices).
The symbol on the packaging or the product itself indicates that this product must not be treated as normal domestic waste but must be disposed of at a recycling collection station for electrical and electronic waste.
By disposing of this product correctly, you contribute to the protection of the environment and the health of your fellow people. Inappropriate disposal threatens the environment and health.

Material recycling helps to reduce the consumption of raw materials.

Additional information about the recycling of this product can be provided by your local commune, the municipal waste disposal facilities, or the store where you purchased the product.

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Important Note: