



**HILTI PR 4-
22
Horizontal
Rotating
Laser Level**



HILTI PR 4-22 Horizontal Rotating Laser Level Instruction Manual

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HILTI PR 4-22 Horizontal Rotating Laser Level



Specifications

- Model: PR 4-22 (01)
- Languages: Deutsch, English, Nederlands, Français, Español, Italiano, Dansk, Svenska, Norsk, Suomi, Eesti, Latviesu, Lietuvi, Polski, Cesky, Slovencina, Magyar, Slovenscina, Hrvatski, Srpski

Product Information

The PR 4-22 (01) is a multi-language user manual for a product that provides operating instructions in various languages.

Product Usage Instructions

Selecting Language

To select your preferred language:

1. Locate the language code corresponding to your language preference.
2. Refer to the page number mentioned next to the code to access the operating instructions in your language.

Accessing Operating Instructions

Once you have identified the language code and page number:

1. Turn to the specified page number in the manual.
2. Follow the detailed operating instructions provided in your preferred language.

Troubleshooting



If you encounter any issues or need further assistance:

1. Refer to the troubleshooting section in the manual specific to your language.
2. Contact customer support for additional help.

Original operating instructions

Information about the operating instructions

About these operating instructions

- **Warning!** Read and understand all accompanying documentation, including but not limited to instructions, safety warnings, illustrations, and specifications provided with this product. Familiarize yourself with all the instructions, safety warnings, illustrations, specifications, components, and functions of the product before use. Failure to do so may result in electric shock, fire, and/or serious injury. Save all warnings and instructions for future reference.
-  products are designed for professional users and only trained, authorized personnel are permitted to operate, service and maintain the products. This personnel must be specifically informed about the possible hazards. The product and its ancillary equipment can present hazards if used incorrectly by untrained personnel or if used not in accordance with the intended use.
- The accompanying documentation corresponds to the current state of the art at the time of printing. Please always check for the latest version on the product's page on Hilti's website. To do this, follow the link or scan the QR code in this documentation, marked with the symbol .
- Ensure that these operating instructions are with the product when it is given to other persons.

Explanation of symbols

Warnings

Warnings alert persons to hazards that occur when handling or using the product. The following signal words are used:

DANGER !

Draws attention to imminent danger that will lead to serious personal injury or fatality.

WARNING !







Draws attention to a potential threat of danger that can lead to serious injury or fatality.

CAUTION !

Draws attention to a potentially dangerous situation that could lead to personal injury or damage to the equipment or other property.


Symbols in the operating instructions

The following symbols are used in these operating instructions:

	Comply with the operating instructions
	Instructions for use and other useful information
	Dealing with recyclable materials
	Do not dispose of electric equipment and batteries as household waste
	Hilti Li-ion battery
	Hilti charger

Symbols in illustrations






The following symbols are used in illustrations:

2	These numbers refer to the illustrations at the beginning of these operating instructions.
3	The numbers in illustrations refer to important work steps or to components important for the work steps. In the text, the corresponding numbers draw attention to these work steps or components, e.g. (3) .
11	Item reference numbers are used in the overview illustration and refer to the numbers used in the key in the product overview section.
	This symbol is intended to draw your special attention to certain points for handling the product.

Product-dependent symbols

General symbols

Symbols used in relation to the product.

	The product supports near-field communication (NFC) technology compatible with iOS and Android platforms.
Li-Ion	Li-ion battery
	Never use the battery as a striking tool.
	Do not drop the battery. Never use a battery that has suffered an impact or is damaged in any other way.
	Hilti Li-ion battery type series used. Observe the information given in the section headed Intended use .
	If applied on the product, the product has been certified by this certification body for the US and Canadian markets according to the applicable standards.

On the product

Laser information

- LASER RADIATION! DO NOT LOOK INTO THE LASER BEAM!
- The product corresponds to laser class 2, based on the standard IEC608251/EN608251:2014, and corresponds to CFR 21 § 1040 (Laser Notice 56).
- This product is a consumer laser product and satisfies the requirements of EN 50689:2021.

Safety

General safety instructions, measuring tools

WARNING! Read all safety precautions and other instructions. Measuring tools can present hazards if handled incorrectly. Failure to observe the safety instructions and other instructions can result in damage to the measuring tool and/or serious injury.

Keep all safety precautions and instructions for future reference.

Work area safety

- Keep your workplace clean and well lit. Cluttered or poorly lit workplaces invite accidents.
- Do not operate the product in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- Keep children and other persons clear when the product is in use.
- Use the product only within its specified limits.
- Comply with your national accident prevention regulations.

Electrical safety

- Do not expose the product to rain or moisture. Penetrating moisture can cause short circuits, electrical shock, burns or explosions.
- Although the product is protected against the entry of moisture, it should be wiped dry before being put away in its transport container.

Personal safety

- Stay alert, watch what you are doing and use common sense when operating a measuring tool. Do not use a measuring tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating the measuring tool can result in serious personal injury.
- Avoid unusual body positions. Keep proper footing and balance at all times.
- Wear personal protective equipment. Wearing personal protective equipment reduces the risk of injury.
- Do not render safety devices ineffective and do not remove information and warning notices.
- Avoid accidental starting. Make sure that the measuring tool is switched off before connecting it to the battery and before picking it up or carrying it.
- Use the product and accessories in accordance with these instructions and in the way specified for this special type of tool. Take the working conditions and the work to be performed into account. Use of products for applications different from those intended could result in hazardous situations.
- Do not lull yourself into a false sense of security and do not flout the safety rules for measuring tools, even if you are familiar with the measuring tool after using it many times. Carelessness can result in serious injury within a fraction of a second.
- Do not use the measuring tool in the vicinity of medical devices.

Using and handling the measuring tool

- Use the product and accessories only when they are in perfect working order.
- Store measuring tools out of reach of children when not in use. Do not allow persons who are not familiar with the product or these instructions to operate it. Measuring tools are dangerous in the hands of inexperienced persons.
- Measuring tools need care and attention. Check that moving parts operate satisfactorily and do not jam, and make sure that no parts are broken or damaged in such a way that the measuring tool might no longer function correctly. Have damaged parts repaired before using the measuring tool. Many accidents are caused by poorly maintained measuring tools.
- Do not under any circumstances modify or tamper with the product. Changes or modifications not expressly approved by Hilti may restrict the user's authorization to operate the product.
- Check the accuracy of the measuring tool before using it for important measurements, and if it has been dropped or subjected to other mechanical stresses.
- Due to the measuring principle employed, the results of measurements can be negatively affected by certain ambient conditions. These include, for example, the proximity of devices that produce strong magnetic or electromagnetic fields, vibrations and temperature changes.
- Rapidly changing measuring conditions can falsify the results.
- When the product is brought into a warm environment from very cold conditions, or viceversa, allow it to become acclimatized before use. Big differences in temperature can lead to incorrect operation and incorrect results.
- When adapters or accessories are used, make sure they are mounted securely.
- The measuring tool is designed for the tough conditions of job site use, but as with other optical and electrical products (e.g. binoculars, spectacles, cameras), it must be handled with care.
- The specified operating and storage temperatures must be observed.

Additional safety instructions for laser measuring tools

- Laser radiation in excess of Class 2 can be emitted if the product is opened without correct procedure being followed. Have the product repaired only by Hilti Service.
- Secure the area in which you will be taking measurements. While setting up the product, make sure that you do not direct the laser beam toward yourself or others. Laser beams should be projected well above or well below eye height.
- Keep the laser exit window clean in order to avoid measurement errors.
- Check the accuracy of the product before use and several times during use.
- Readings taken in the vicinity of reflective objects or surfaces, through panes of glass or similar materials can falsify the result of measurement.
- Mount the product on a suitable holder or bracket or on a tripod, or set it on a smooth, level surface.
- Do not work with the surveyor's staffs in the vicinity of high-voltage electricity cables.
- Make sure that no other laser measuring tool that can influence your measurements is in use in the vicinity.
- Do not permit the laser beam to project beyond the controlled area.

Additional safety instructions

- Use the product and accessories only when they are in perfect working order.
- Never tamper with or modify the product or accessories in any way.

- Risk of injury by falling tools and/or accessories. Before starting work, check that the battery and installed accessories are secure.

Electromagnetic compatibility

Although the tool complies with the strict requirements of the applicable directives, Hilti cannot exclude the following possibilities:

- The tool may cause interference to other devices (e.g. aircraft navigation equipment).
- The tool may be negatively affected by powerful electromagnetic radiation, possibly leading to incorrect operation.

In these cases, or if you are otherwise unsure, confirmatory measurements should be made by other means.

Careful handling and use of batteries

- Comply with the following safety instructions for the safe handling and use of Li-ion batteries. Failure to comply can lead to skin irritation, severe corrosive injury, chemical burns, fire and/or explosion.
- Use only batteries that are in perfect working order.
- Treat batteries with care in order to avoid damage and prevent leakage of fluids that are extremely harmful to health!
- Do not under any circumstances modify or tamper with batteries!
- Do not disassemble, crush or incinerate batteries and do not subject them to temperatures over 80 °C (176 °F).
- Never use or charge a battery that has suffered an impact or been damaged in any other way. Check your batteries regularly for signs of damage.
- Never use recycled or repaired batteries.
- Never use the battery or a battery-operated power tool as a striking tool.
- Never expose batteries to the direct rays of the sun, elevated temperature, sparking, or open flame. This can lead to explosions.
- Do not touch the battery poles with your fingers, tools, jewelry, or other electrically conductive objects. This can damage the battery and also cause material damage and personal injury.
- Keep batteries away from rain, moisture and liquids. Penetrating moisture can cause short circuits, electric shock, burns, fire and explosions.
- Use only chargers and power tools approved for the specific battery type. Read and follow the relevant operating instructions.
- Do not use or store the battery in explosive environments.
- If the battery is too hot to touch, it may be defective. Put the battery in a place where it is clearly visible and where there is no risk of fire, at an adequate distance from flammable materials. Allow the battery to cool down. If it is still too hot to touch after an hour, the battery is faulty. Consult Hilti Service or read the document entitled "Instructions on safety and use for Hilti Li-ion batteries".

Observe the special guidelines applicable to the transport, storage and use of lithiumion batteries.

Read the instructions on safety and use of Hilti Li-ion batteries that you can access by scanning the QR code at the end of these operating instructions.

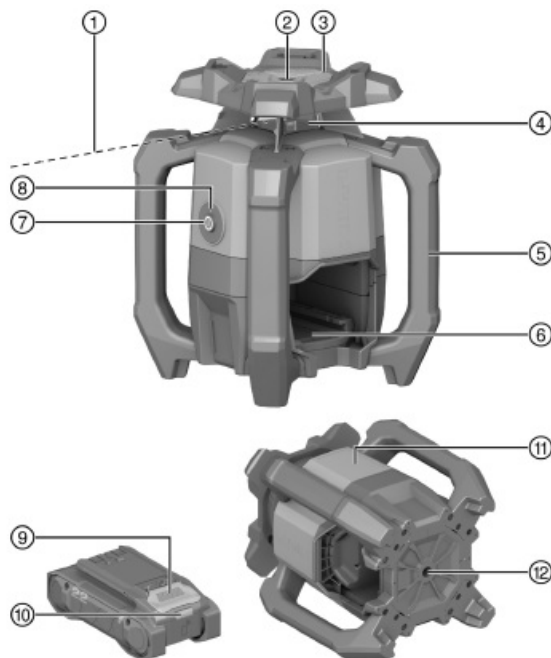
Description

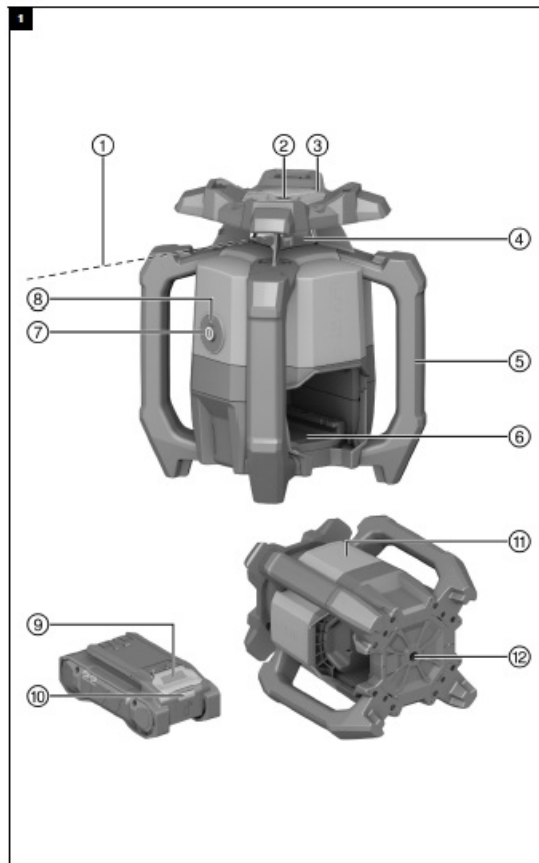
Overview 1

1. Laser beam (plane of rotation)
2. Reference beam
3. Targeting aid (front and rear sights), X-axis
4. Laser window
5. Grip
6. Battery interface



7. On/off button
8. + Operating status indicator (LED)
9. Battery release button
10. Battery status indicator
11. Position of rating plate
12. Base plate with 5/8" thread





Intended use

The product described is a rotating laser tool with a visible red rotating laser beam and a reference beam set at 90° to the main beam. The rotating laser can be used horizontally. The product is designed to be used to determine, transfer and check levels, for example to transfer datum lines and height marks.

- For this product, use only the Hilti Nuron Li-ion batteries of the B 22 series stated in this table.
- For these batteries, use only Hilti chargers of the type series stated in this table.

Items supplied

Rotating laser, PRA 4 laser receiver, PRA 83 laser receiver holder, 2x AA batteries (not in all markets), operating instructions, manufacturer's certificate, case

Other system products approved for use with this product can be found at your local Hilti Store or at:

www.hilti.group

Functions of the on/off button

Short-pressing the on/off button switches the rotating laser on or off, as applicable.

In addition, the following functions can be activated by means of the on/off button:

With the product switched off, pressing the button and holding it down for ≥ 10 seconds switches the rotating laser on with shock warning deactivated.

Laser receiver

Hilti laser receivers digitally indicate the distance between the marking notch on the laser receiver and the position at which the laser beam (laser plane) strikes the detection area on the receiver. The laser beam can also be received over long distances.

Automatic switch-off

The tool switches off automatically if it is unable to level itself because the rotating laser:

- Is sloping too steeply off the horizontal.
- Has an internal mechanical problem.
- Has been knocked off level by an impact or vibration.

When the tool has switched itself off, rotation stops and the operating status indicator quickly flashes orange. Switch the rotating laser off and then on again. If the problem persists, consult Hilti Service.

Shock warning function

If the rotating laser is knocked off level during operation, the built-in shock warning function switches the product to warning mode. The shock warning function is not active until two minutes after completion of self-leveling.

If the rotating laser is in warning mode:

- The operating status indicator slow-flashes orange.
- The rotary head stops and the laser beam switches off.

Operating status indicator

The rotating laser has an operating status indicator that can indicate different operating states.

Status	Meaning
The operating status indicator shows steady green.	The rotating laser is switched on, has leveled and is operating normally.
The operating status indicator slow-flashes green.	The rotating laser is leveling itself.
The operating status indicator shows steady orange.	The shock warning function has been deactivated. The rotating laser is switched on, has leveled and is operating normally.
The operating status indicator slow-flashes orange.	The shock warning function has been deactivated. The rotating laser is leveling itself.
The operating status indicator quick-flashes orange.	The rotating laser is experiencing a fault. Check the set up of the rotating laser (e.g. vibration-free, flat surface, etc.)
The operating status indicator flashes red (3x long, 3x short, 3x long, pause).	The rotating laser is faulty. Consult Hilti Service.

Status indicators of the Li-ion battery

Hilti Nuron Li-ion batteries can indicate state of charge, fault messages and the battery's state of health.

Indicators for state of charge and fault messages

WARNING

Risk of injury by a falling battery!

If the release button is pressed with a battery inserted in the product, subsequently check that the battery is correctly reengaged and secure.

- Short-press the release button of the battery to get whichever of the following status indications is applicable at the time.
- State of charge and, if applicable, faults are indicated constantly as long as the connected product is switched on.

Status	Meaning
Four (4) LEDs show constantly green	State of charge: 100 % to 71 %
Three (3) LEDs show constantly green	State of charge: 70 % to 51 %
Two (2) LEDs show constantly green	State of charge: 50 % to 26 %
One (1) LED shows constantly green	State of charge: 25 % to 10 %
One (1) LED slow-flashes green	State of charge: < 10 %
One (1) LED quick-flashes green	<p>The Li-ion battery is completely discharged. Recharge the battery.</p> <p>If the LED again starts quick-flashing after the battery has been charged, consult Hilti Service.</p>
One (1) LED quick-flashes yellow	<p>The Li-ion battery or the product in which it is inserted is overloaded, too hot or too cold, or experiencing some other fault.</p> <p>Bring the product and the battery to the recommended working temperature and do not overload the product when it is in use.</p> <p>If the message persists, consult Hilti Service.</p>
One (1) LED shows yellow	The Li-ion battery and the product in which it is inserted are not compatible. Consult Hilti Service.
One (1) LED quick-flashes red	The Li-ion battery is locked and cannot be used. Consult Hilti Service.

Indicators showing the battery's state of health

To check the battery's state of health, press the release button and hold it down for longer than three seconds. The system does not detect a potential malfunction of the battery due to misuse, for example battery dropped or pierced, external heat damage, etc.

Status	Meaning
All LEDs show in sequence, followed by one (1) LED showing constantly green.	The battery can remain in use.
All LEDs show in sequence, followed by one (1) LED quick-flashing yellow.	The check to ascertain the battery's state of health did not completed. Repeat the procedure, or consult Hilti Service.
All LEDs show in sequence, followed by one (1) LED showing constantly red.	<p>If a connected product can still be used, the remaining battery capacity is below 50 %.</p> <p>If a connected product can no longer be used, the battery has reached the end of its useful life and has to be replaced. Consult Hilti Service.</p>

Technical data

Product information

Product generation	01
Rated voltage	21.6 V
Rated current	160 mA
Reception range with PRA 400 (Diameter)	800 m (2,624 ft – 8 in)
Accuracy at 10 m (under standard ambient conditions in accordance with MILSTD810G)	±0.5 mm (±0.02 in)
Speed of rotation	600 /min

Laser class		Visible, laser class 2; EN/IEC 60825-1:2014
Wavelength (λ)		630 nm ... 650 nm
Output power (P_0)	Rotary laser beam	< 3.5 mW , ≥ 300 /min
Output power (P_0)	Reference laser beam	< 1 mW
Pulse duration (t_p)		490 ns
Pulse frequency (f)		1 MHz
Self-leveling range		$\pm 5^\circ$
Maximum site elevation above datum		2,000 m (6,561 ft – 8 in)
Maximum relative humidity		80 %
Ambient temperature for operation		-20 °C ... 50 °C (-4 °F ... 122 °F)
Storage temperature		-25 °C ... 63 °C (-13 °F ... 145 °F)
Weight		2.60 kg (in accordance with EPTA-Procedure 01 without battery)
Tripod thread		5/8 in
Drop test height (under standard ambient conditions in accordance with MILSTD810G)		1.5 m (4 ft – 11.1 in)
Degree of protection in accordance with IEC 60529		IP66 (without battery)
Degree of dirtying in accordance with IEC 61010-1		2
Reference beam		Constant beam, perpendicular to the plane of rotation

Battery

Battery operating voltage	21.6 V
Weight, battery	See the section headed "Intended use"
Ambient temperature for operation	–17 °C ... 60 °C (1 °F ... 140 °F)
Storage temperature	–20 °C ... 40 °C (–4 °F ... 104 °F)
Battery charging starting temperature	–10 °C ... 45 °C (14 °F ... 113 °F)

Preparations at the workplace

WARNING

Risk of injury by inadvertent starting!

- Before inserting the battery, make sure that the product is switched off.
- Remove the battery before making any adjustments to the power tool or before changing accessories.

WARNING

Risk of injury by short circuit or falling battery!

- Before inserting the battery, make sure that the contacts on the battery and the contacts on the product are free of foreign matter.
- Make sure that the battery always engages correctly.

Observe the safety instructions and warnings in this documentation and on the product.

Charging the battery

1. Before charging the battery, read the operating instructions for the charger.
2. Make sure that the contacts on the battery and the contacts on the charger are clean and dry.
3. Use an approved charger to charge the battery.

Inserting the battery

WARNING

Risk of injury by short circuit or falling battery!

- Before inserting the battery, make sure that the contacts on the battery and the contacts on the product are free of foreign matter.
 - Make sure that the battery always engages correctly.
1. Charge the battery fully before using it for the first time.
 2. Push the battery into the product until it engages with an audible click.
 3. Check that the battery is seated securely.

Removing the battery

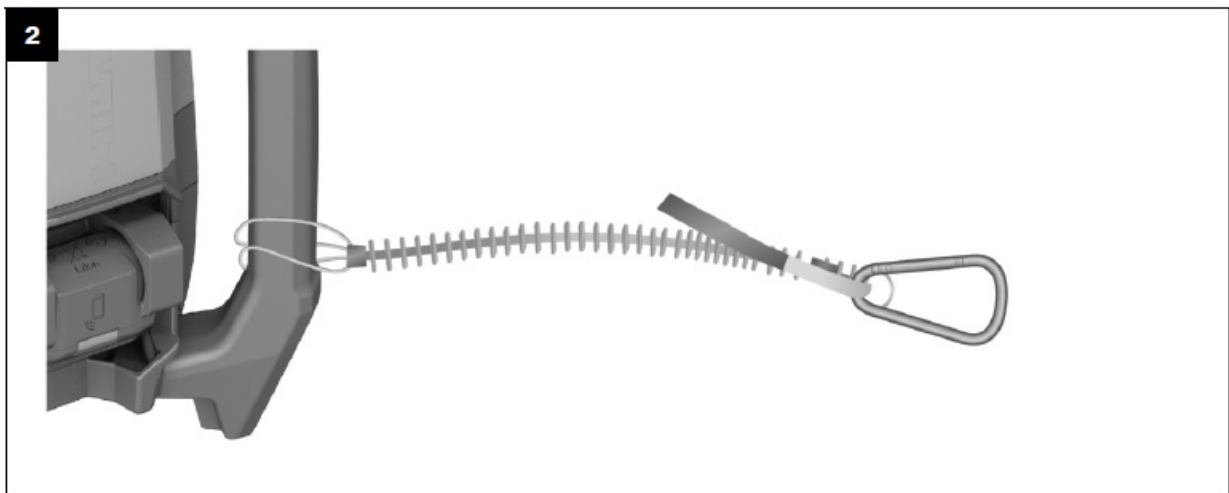
1. Press the battery release button.
2. Remove the battery from the product.

Fall arrest 2

WARNING

Risk of injury by falling tool and/or accessory!

- Use only the Hilti tool tether recommended for your product.
- Prior to each use, always check the attachment point of the tool tether for possible damage.



Comply with the national regulations for working at heights.

As drop arrester for this product, use only the Hilti tool tether #2261971.

- Use the loop to secure the tool tether to the product as shown in the illustration. Check that it holds securely.
- Secure the carabiner to a load-bearing structure. Check that the carabiner holds securely.

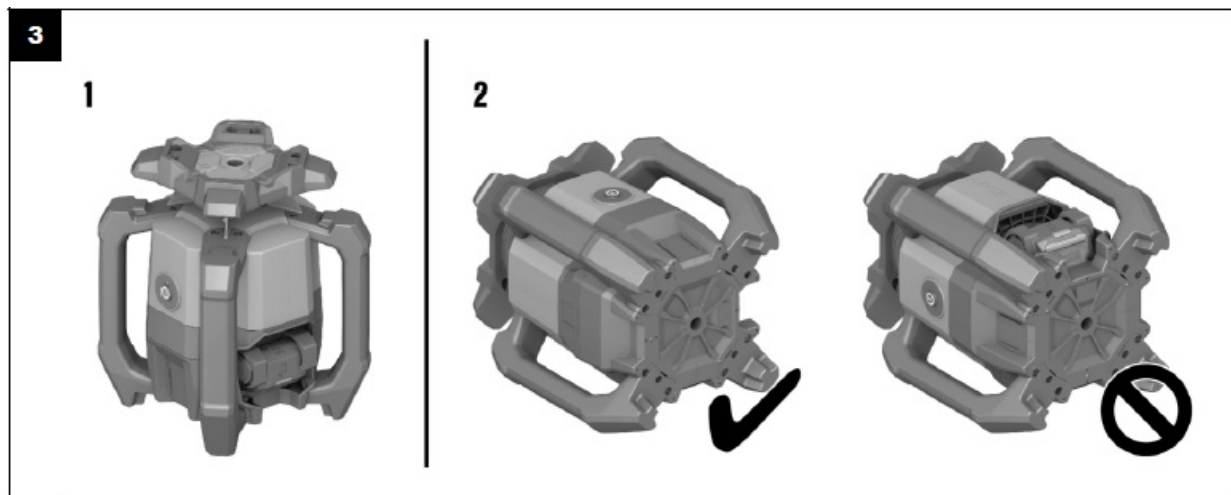
Comply with the operating instructions of the Hilti tool tether.

Operation

Observe the safety instructions and warnings in this documentation and on the product.

Handling the rotating laser and battery correctly 3



Hilti Nuron Li-ion batteries have no degree of protection rating. Do not expose the battery to rain or wet conditions.



1. Work in horizontal mode / slope mode.
2. Laying down or transporting in an inclined position.
 - For transport and when it is not in use, always position the rotating laser so that the battery compartment and the battery do not face upward and no moisture can penetrate.

Switching the rotating laser on/off and working in the horizontal plane

Check the accuracy of the rotating laser before using it for important tasks, especially if it has been dropped or subjected to unusual influences or impacts, or after long periods of storage.

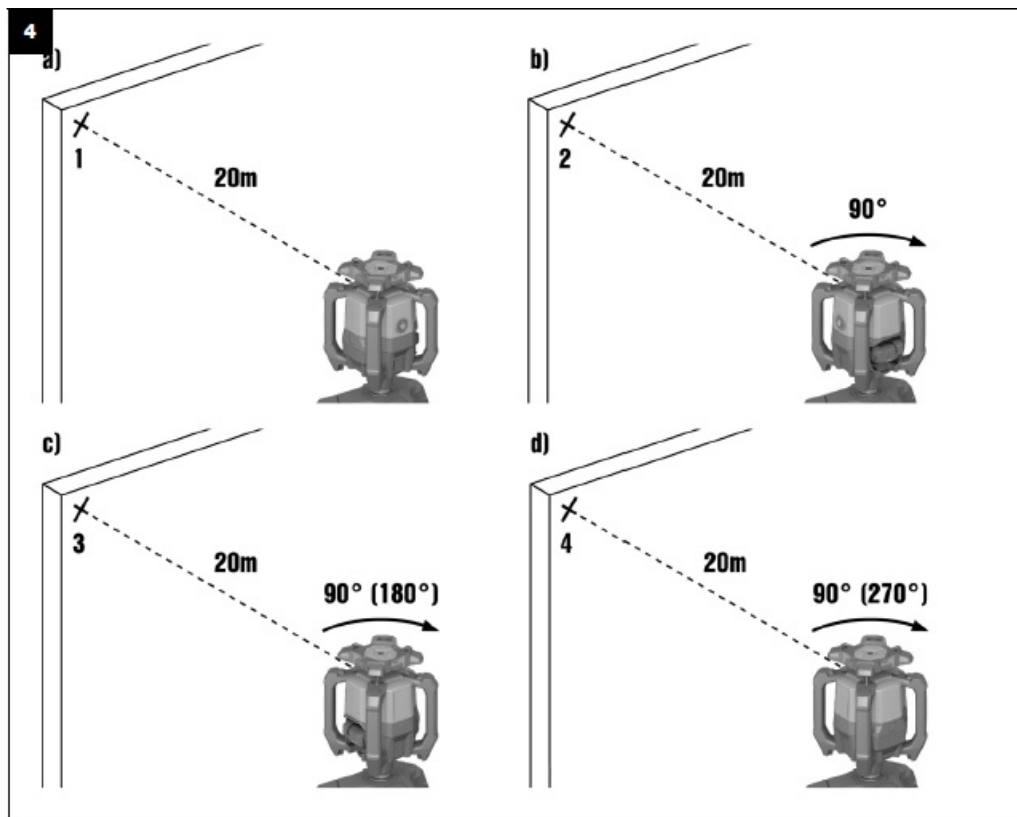
1. Set the rotating laser on a level, sturdy, vibration-free and shock-free flat or mount it on a suitable holder.
 - A wall bracket or tripod may be used as mounting devices. The angle of inclination of the surface on which it stands should not exceed $\pm 5^\circ$.
2. Press the  button.
 - The rotating laser is leveling itself. The operating status indicator slow-flashes green.
 - The laser beam switches on and starts rotating as soon as the tool has leveled itself. The operating status indicator initially quickly flashes green 5 times and then shows steady green.
3. Press the  again to switch off the rotating laser.

Deactivating the shock warning function

1. With the product switched off, press the on/off button and hold it down for ≥ 10 seconds.
 - The rotating laser is switched on with shock warning deactivated.
 - The operating status indicator flashes or shows orange.
2. To activate shock warning, switch the rotating laser off and then short-press the on/off button to switch on again.

Laser receiver PRA 4

The detailed operating instructions for the PRA 4 laser receiver can be found → [here](#).



Using the laser receiver to detect the laser beam



1. Press the button on the laser receiver to switch the laser receiver on.
2. Hold the laser receiver with the receiving window directly in the plane of the laser beam.
 - Reception of the laser beam is indicated by visual and acoustic signals.
 - The laser receiver shows the distance of the laser plane from the marking notch.
 - Depending on the situation, move the laser receiver or the rotating laser up or down until the rotation plane is aligned with the marking notch and the laser receiver shows a value of "0".
3. While alignment is in progress hold the laser receiver steady or secure it in place. Make sure that there is a clear line of sight between laser receiver and rotating laser.

Care and maintenance

WARNING

Risk of injury with battery inserted !

Always remove the battery before carrying out care and maintenance tasks!

Care of the product

- Carefully remove stubborn dirt.
- Use only a slightly damp cloth to clean the housing. Do not use cleaning agents containing silicone as these can attack the plastic parts.
- Use a dry, clean cloth to clean the contacts of the product.

Cleaning the laser exit window

- Blow dust off the laser exit window.
- Do not touch the laser exit window with your fingers.

Abrasive cleaning materials may scratch the glass and impair the accuracy of the laser tool.

Care of the Li-ion batteries

- Never use a battery with clogged air vents. Clean the air vents carefully using a dry, soft brush.
- Avoid unnecessary exposure of the battery to dust and dirt. Never expose the battery to high levels of moisture (e.g. by being dipped in water or left in the rain).

If a battery has been soaked by moisture, treat it as a damaged battery. Isolate it in a non-flammable container and consult Hilti Service.

- Keep the battery free of extraneous oil and grease. Do not permit dust or dirt to accumulate unnecessarily on the battery. Clean the battery with a dry, soft brush or a clean, dry cloth. Do not use cleaning agents containing silicone as these can attack the plastic parts.

Do not touch the contacts of the battery and do not remove the factory-applied grease from the contacts.

- Use only a slightly damp cloth to clean the housing. Do not use cleaning agents containing silicone as these can attack the plastic parts.

Maintenance

WARNING

Danger of electric shock! Improper repairs to electrical components may lead to serious injuries including burns.

- Repairs to the electrical section of the tool or appliance may be carried out only by trained electrical specialists.
- Check all visible parts and controls for signs of damage at regular intervals and make sure that they all function correctly.
- Do not use the product if signs of damage are found or if parts malfunction. Immediately have the product repaired by Hilti Service.
- After cleaning and maintenance, install all guards and protective devices and check that they are in full working order.

To help ensure safe and reliable operation, use only genuine Hilti spare parts, consumables and accessories. Spare parts, consumables and accessories approved by Hilti for use with your product can be found at your Hilti Store or online at: www.hilti.group

Checking accuracy

In order to ensure compliance with the technical specifications, the tool should be checked regularly (at least before each major / relevant measuring task).

After falling from considerable height, the tool should be checked for correct, accurate operation. When the following conditions are fulfilled it can be assumed that the tool is operating faultlessly:

- The height of the fall did not exceed the height given in the technical data.

- The tool operated faultlessly before the fall.
- The tool suffered no obvious mechanical damage from the fall (e.g. breakage of the pentaprism).
- The tool projects a rotating laser beam when in operation.

Checking the main and transverse horizontal axes 4

1. Set up a tripod approx. 20 m (66 ft) from a wall and align the tripod head horizontally with a spirit level.
2. Mount the rotating laser on the tripod and use the visual sighting method to aim the rotating laser at the wall.
3. Fig. a: Use the laser receiver to catch the laser beam for point (1) and mark this point on the wall.
4. Turn the rotating laser clockwise through 90° round its center axis. In doing so, make sure that the height of the rotating laser does not change.
5. Fig. b: Use the laser receiver to catch the laser beam for a second point (2) and mark this point on the wall.
6. Fig. c and d: Repeat the two preceding steps two more times. Use the laser receiver to catch the laser beam for points (3) and (4) and mark the points on the wall.

If the procedure has been carried out accurately, the vertical distance between the two marked points (1) and (3) (main axis) and between points (2) and (4) (transverse axis) should each be <2 mm (at 20 m) (<0.08 in at 66 ft). If the deviation is greater than this, return the rotating laser to Hilti Service for calibration.

Hilti Measuring Systems Service

Hilti Measuring Systems Service checks the scanning tool and, if deviations from the specified accuracy are found, recalibrates it and rechecks to ensure conformity with specifications. The service certificate provides written confirmation of conformity with specifications at the time of the test. The following is recommended:

- Choose a test/inspection interval that matches usage of the device.
- Have the product checked by Hilti Measuring Systems Service after exceptionally heavy use or subjection to unusual conditions or stress, before important work or at least once a year.

Testing and inspection by Hilti Measuring Systems Service does not relieve the user of the obligation to check the scanning tool before and during use.

Transport and storage

Transport of cordless power tools and batteries

CAUTION

Accidental starting during transport !

- Always transport your products with the batteries removed!
- Remove the battery/batteries.
- Never transport batteries loose and unprotected. During transport, batteries should be protected from excessive shock and vibration and isolated from any conductive materials or other batteries that may come in contact with the terminals and cause a short circuit. Comply with the locally applicable regulations for transporting batteries.
- Do not send batteries through the mail. Consult your shipper for instructions on how to ship undamaged batteries.
- Prior to each use and before and after prolonged transport, check the product and the batteries for damage.

Storage of cordless power tools and batteries

WARNING

Accidental damage caused by defective or leaking batteries !

- Always store your products with the batteries removed!
- Store the product and the batteries in a cool and dry place. Comply with the temperature limits stated in the technical data 23.
- Do not store batteries on the charger. Always remove the battery from the charger when the charging operation has completed.
- Never leave batteries in direct sunlight, on sources of heat, or behind glass.
- Store the product and batteries where they cannot be accessed by children or unauthorized persons.
- Prior to each use and before and after prolonged storage, check the product and the batteries for damage.

Troubleshooting

If a problem occurs, always observe the status indicator of the battery. See the section headed Status indicators of the Li-ion battery 22.

If the trouble you are experiencing is not listed in this table or you are unable to rectify the problem by yourself, contact Hilti Service.

Trouble or fault	Possible cause	Action to be taken
LEDs of the battery show nothing	Battery faulty.	Contact Hilti Service.

Trouble or fault	Possible cause	Action to be taken
Battery does not engage with an audible click.	The retaining lug on the battery is dirty.	Clean the retaining lug and re-insert the battery.
The product or battery gets very hot.	Electrical fault.	Switch the product off immediately, remove the battery, keep it under observation, allow it to cool down and contact Hilti Service.

Disposal

WARNING

Risk of injury due to incorrect disposal! Health hazards due to escaping gases or liquids.

- DO NOT send batteries through the mail!
- Cover the terminals with a non-conductive material (such as electrical tape) to prevent short circuiting.
- Dispose of your battery out of the reach of children.
- Dispose of the battery at your Hilti Store, or consult your local governmental garbage disposal or public health and safety resources for disposal instructions.

Most of the materials from which Hilti products are manufactured can be recycled. The materials must be correctly

separated before they can be recycled. In many countries, your old tools, machines or appliances can be returned to Hilti for recycling. Ask Hilti Service or your Hilti sales representative for further information.

Do not dispose of power tools, electronic equipment or batteries as household waste!

Manufacturer's warranty

Please contact your local Hilti representative if you have questions about the warranty conditions.

Further information

Accessories, system products and more information about your product can all be found → [here](#).

RoHS (Restriction of Hazardous Substances)

Hazardous substances material disclosure according to SJ/T 11364-2014

Product type: Line Laser
Products: PR 4-22 01; PR 40-22 01; PR 40G-22 01; PR 400-22 01;

Part name	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated biphenylethers (PBDE)
Grip PR 4XX-22 assy	o	o	o	o	o	o
Identification plate PR 40-22 printed	o	o	o	o	o	o
Nameplate PR 40-22	o	o	o	o	o	o
Holder PR 4XX-22 assy	o	o	o	o	o	o
Screws	o	o	o	o	o	o
Housing PR 4XX-22 assy	o	o	o	o	o	o
Housing PR 40X-22 assy	o	o	o	o	o	o
Blanking plug PR 3-HVSG	o	o	o	o	o	o
Cable tie 100x2,5	o	o	o	o	o	o

The following tables are prepared in accordance with the provision of SJ/T 1 1364

- O: Indicates that said hazardous substances contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572
- X: Indicates that said hazardous substances contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.
(Enterprises may further provide in this box technical explanation for marking "X" based on their actual circumstances.)

This table is valid for the China market.

Declaration of the Presence Condition of the Restricted Substances Marking

Equipment name:		Line laser		Type designation:		PR 4-22 01 PR 40-22 01 PR 40G-22 01 PR 400-22 01	
Unit	Restricted substances and its chemical symbols						
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr (VI))	Polybrominated biphenyls (PBB)	Polybrominated biphenylethers (PBDE)	
Grip PR 4XX-22 assy	o	o	o	o	o	o	
Identification plate PR 40-22 printed	o	o	o	o	o	o	
Nameplate PR 40-22	o	o	o	o	o	o	
Holder PR 4XX-22 assy	o	o	o	o	o	o	
Screws	o	o	o	o	o	o	
Housing PR 4XX-22 assy	o	o	o	o	o	o	
Housing PR 40X-22 assy	o	o	o	o	o	o	
Blanking plug PR 3-HVSG	o	o	o	o	o	o	
Cable tie 100x2,5	o	o	o	o	o	o	
Note 1: "Exceeding 0.1wt.% and exceeding 0.01wt %" indicate that the percentage contain of the restricted substance exceeds the reference percentage value of presence condition. Note 2: "o" – indicates that the percentage contain of the restricted substance does not exceeds the percentage of reference value of presence. Note 3: The "-" indicates that the restricted substance corresponds to the exemption.							

This table is valid for the Taiwan market.

Hilti Li-ion batteries

Instructions for safety and use

This documentation uses the term battery to describe rechargeable Hilti Li-ion battery packs containing several Li-ion cells joined together. These batteries are to be used in Hilti power tools exclusively. Use only genuine Hilti batteries!

Description

- Hilti batteries have cell management and cell-protection systems.
- The batteries are composed of cells that contain lithium-ion storage materials capable of providing high specific energy density. Li-ion cells have a minimal memory effect, but they are very susceptible to external impact, deep discharge, and high temperatures.
- The products approved for use with Hilti batteries can be found in your Hilti Store or at: www.hilti.group

Safety

- Comply with the following safety instructions for the safe handling and use of Li-ion batteries. Failure to comply

can lead to skin irritation, severe corrosive injury, chemical burns, fire and/or explosion.

- Treat batteries with care in order to avoid damage and prevent leakage of fluids that are extremely harmful to health!
- Do not under any circumstances modify or tamper with batteries!
- Do not disassemble, crush or incinerate batteries and do not subject them to temperatures over 80 °C.
- Never use or charge a battery that has suffered an impact or been damaged in any other way. Check your batteries regularly for signs of damage.
- Never use recycled or repaired batteries.
- Never use the battery or a battery-operated power tool as a striking tool.
- Never expose batteries to the direct rays of the sun, elevated temperature, sparking, or open flame. This can lead to explosions.
- Do not touch the battery poles with your fingers, tools, jewelry, or other electrically conductive objects. This can damage the battery and also cause material damage and personal injury.
- Keep batteries away from rain, moisture and liquids. Penetrating moisture can cause short circuits, electric shock, burns, fire and explosions.
- Use only chargers and power tools approved for the specific battery type. Read and follow the relevant operating instructions.
- Do not use or store the battery in explosive environments.
- If the battery is too hot to touch it may be defective. Put the battery in a place where it is clearly visible and where there is no risk of fire, at an adequate distance from flammable materials. Allow the battery to cool down. If it is still too hot to touch after an hour, the battery is faulty. Follow the instructions in the section headed What to do in case of a battery fire.

What to do in case of damaged batteries

- Always contact Hilti when a battery is damaged.
- Never use a battery that is leaking fluid.
- Avoid direct eye and/or skin contact with fluid leaking from a battery. Always wear protective gloves and eye protection when undertaking tasks involving battery fluid.
- Use a chemical spill cleanup kit to remove leaked battery fluid. Comply with the locally applicable cleanup regulations for battery fluid.
- To store a damaged battery, place the battery in a non-flammable container and cover the battery with dry sand, chalk powder (CaCO_3) or silicate (Vermiculite). Then seal the lid air-tight and store the container away from flammable gases, liquids or objects.
- Dispose of the container at your Hilti Store, or consult your local governmental garbage disposal or public health and safety resources for disposal instructions. Comply with the locally applicable regulations for transporting damaged batteries!

What to do in case of dysfunctional batteries

- Watch for abnormal battery behavior, such as faulty charging, unusually long charging times, noticeable power loss, unusual LED activity, or leaking fluids. These are signs of an internal problem.
- If you suspect an internal battery problem, contact Hilti Service.
- A battery that no longer works, cannot be recharged or leaks fluid has to be disposed of correctly. See the

section headed Maintenance and disposal.

What to do in case of a battery fire

WARNING

Battery fire hazard! A burning battery releases hazardous and potentially explosive liquids and fumes that can lead to corrosion injuries, burns or explosions.

- Wear your personal protective equipment when you tackle a battery fire.
- Provide sufficient venting to permit hazardous and potentially explosive fumes to escape.
- Leave the room immediately in case of intense smoke emission.
- Consult a doctor in case of any skin or respiratory irritation.
- Alert the fire service before you start tackling the fire.
- Use only water to tackle a battery fire and keep as far from the fire as effective extinguishing permits. Powder fire extinguishers and fire blankets are ineffective with Li-ion batteries. Fire in nearby materials can be extinguished with appropriate extinguishing agents.
- Do not try to move large quantities of burning batteries. Instead, isolate the batteries by removing unaffected materials from the immediate vicinity.

In the case of a battery that does not cool down, or a smoking or burning battery:

- Scoop the battery up with a shovel and drop it into a bucket of water, which will reduce the risk of igniting adjacent cells that have not yet reached run-away temperature.
- Leave the battery in the bucket for at least 24 hours until it has cooled down completely.
- See the section headed What to do in case of damaged batteries .

Shipping and storage

- Ambient operating temperature to be kept between -17°C and +60°C / 1°F and 140°F.
- Storage temperature to be kept between -20°C and +40°C / -4°F and 104°F.
- Do not store batteries on the charger. Always remove the battery from the charger when the charging operation has completed.
- Store batteries in a cool and dry place. Cool storage will increase battery life. Never store batteries where they are exposed to direct sunlight, on sources of heat or behind glass.
- Do not send batteries through the mail. Consult your shipper for instructions on how to ship undamaged batteries.
- Never transport batteries in bulk form (loose, unprotected). During transport, batteries should be protected from excessive shock and vibration and isolated from any conductive materials or other batteries that may come in contact with the terminals and cause a short circuit. Comply with the locally applicable regulations for transporting batteries.

Maintenance and disposal

- Keep the battery free of oil and grease. Do not permit dust or dirt to accumulate unnecessarily on the battery. Clean the battery with a dry, soft brush or a clean, dry rag.

- Never use a battery with clogged ventilation slots. Clean the ventilation slots carefully using a dry, soft brush.
- Prevent unnecessary exposure of the battery to dust or debris and never subject the battery to soaking moisture (e.g., submerged in water or left out in the rain).
- If a battery is exposed to soaking moisture, treat it as a damaged battery and isolate it in a non-flammable container.
- See the section headed What to do in case of damaged batteries .
- Improper disposal may cause health hazards from leaking gases or fluids. Dispose of the battery at your Hilti Store, or consult your local governmental garbage disposal or public health and safety resources for disposal instructions. Comply with the locally applicable regulations for transporting damaged batteries!
- Do not dispose of batteries as household waste.
- Dispose of your battery out of the reach of children. Cover the terminals with a non-conductive material (such as electrical tape) to prevent short circuiting.



B 22-55 (01)	0,56 kg	1.23 lb
B 22-85 (01)	0,77 kg	1.70 lb



C 4-22
C 6-22
C 8-22

Declaration of conformity

The manufacturer declares, on his sole responsibility, that the product described here complies with the applicable legislation and standards.

The technical documentation is filed here:

- Hilti Entwicklungsgesellschaft mbH
- Tool Certification
- Hiltistrasse 6
- D-86916 Kaufering, Germany

Product information

Rotating laser	PR 4-22
Generation	01
Serial no.	1-9999999999

Schaan, 28.06.2024



Dr. Tahar Zrilli
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FAQ

- **Q: Can I change the language after initial setup?**
 - A: Yes, you can refer to the language selection section in the manual to change the language settings.
- **Q: How do I navigate between different languages?**
 - A: Simply follow the instructions provided in the manual to switch between languages based on the language code and page numbers.

Documents / Resources



[HILTI PR 4-22 Horizontal Rotating Laser Level](#) [pdf] Instruction Manual

01, 01, 01, PR 4-22 Horizontal Rotating Laser Level, PR 4-22, Horizontal Rotating Laser Level, Rotating Laser Level, Laser Level

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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