LASERSYSTEM
LASER DETECTOR
LR 50
ENGLISH

TECHNICAL SPECIFICATIONS

Model	LR50
Display	Dual LCD
Leading accuracy (mm)	±1
Range (m)	0,5 – 50
Laser receptor window width (mm)	12
Laser receptor range (m)	0,5 – 50
Auto power off time (min)	3
Battery type	9 V (6LR61 Alkaline)
Operating time (h)	20
Protection level	IP20
Protection class	III
Measuring accuracy	± 0,1 m
Temperature (°C / °F)	+0 / +50 (+32 / +122)
Operating temperature (°C)	0 – 40
Storage temperature (°C)	-25 to +70

DESCRIPTION OF PARTS

1. Power (ON / OFF) button
2. Laser receptor window
3. Speaker / Volume button
4. Backlight (ON / OFF) button
5. Measurement mode button
6. Speaker
7. Front LCD display
8. Rear LCD display
9. Battery compartment
10. Tripod adapter
11. Rear reference line
12. Rear reference line aligned with laser beam
13. Laser / Soft / Mute
14. Low accuracy mode
15. High accuracy mode
16. Battery status – solid
17. Approximate measuring battery life is shown.
18. Battery status – blinking
19. Low battery warning

SAFETY WARNINGS

1. Avoid exposure to direct sunlight, extreme temperatures and significant temperature changes. Do not place the device near heat sources or in conditions where the device may become damp. Do not place the device near strong electromagnetic fields. Do not drop the device or subject it to strong vibrations.

2. Do not use the device in explosive areas or in the presence of flammable liquids, gas or dust. Electrical tools generate sparks which may ignite dust or fumes.

3. Do not point the laser beam at other people or at their eyes. Even if you are only aiming at someone from a distance, this increases the risk of temporary dazzle, accidents or damage to eyes.

4. Do not use optical aids to look at the laser beam. Optical aids such as binoculars or telescopes increase the intensity of the laser beam and may cause eye damage.

5. Do not modify the laser system. Modifications to the laser system may increase the intensity of the laser beam and cause eye damage.

6. Keep batteries and remove or exchange them if necessary. Failure to do so may lead to injuries or damage to the device due to leakage.

7. Do not short circuit the battery. Short circuit may cause injuries or damage due to overheating or explosion. Do not store the battery in a place where it may be short circuited by other metal or conductive objects. Short circuiting increases the risk of fires.

8. Do not use damaged or modified batteries. Damaged or modified batteries may have unpredictable results and cause fire, explosion or injuries.

9. Do not dismantle, open or crush the battery. Failure to do so may lead to injuries or damage to the device due to leakage.

10. Do not expose the battery to heat or fire. Exposure to heat or fire may lead to explosion.

11. Do not overcharge the battery. Overcharging may damage the battery and increase the risk of fire and injuries.

12. Do not use the device for other purposes. Failure to do so may lead to injuries or damage to the device.

13. Do not use the device if the laser beam is aligned with the Rear reference line (11) and the laser beam is aligned with the Rear reference line (12). Failure to do so may lead to injuries or damage to the device.

14. Do not use the device if the laser beam is aligned with the Front reference line (11).

15. Do not use the device if the laser beam is aligned with the Front reference line (12).

IN GENERAL

Pay close attention to the (11) and (12) markings inside the Battery compartment (9) to ensure correct battery installation. Incorrect battery installation may damage the device. Avoiding of damage caused by improper battery installation is not covered by the warranty.

LED CODES

	Reference line higher than laser beam. Move the laser receiver in the direction shown (up).
	Reference line lower than laser beam. Move the laser receiver in the direction shown (down).
	Reference line aligned with laser beam.

SYMBOLS

Laser / Soft / Mute

Low accuracy mode

High accuracy mode

Battery status – solid

Approximate measuring battery life is shown.

Battery status – blinking

Low battery warning

Setup

Place the device on a flat surface or with the Mounting clamp to attach it to a tripod (see "Using the Tripod").

Turn the device on by pressing the laser receiver (Power (2)).

- Align the clamp with the laser receiver using the alignment lines.
- Tighten the clamp.

To mount the Mounting clamp onto a measuring rod, pole, or similar object:

- Loosen the tightening knob.
- Place the measuring rod, pole, or similar object.
- Tighten the knob to secure the clamp.
- Place the laser receiver into the clamp and tighten the knob to secure the laser receiver. When the reference mark is fixed, tighten the knob again to secure the clamp.

Operation

1. Press the Power (ON / OFF) button (1) to turn the laser detector ON.
2. Place the laser receiver (2) in the path of the laser beam. The laser receiver (2) will detect the laser beam automatically.
3. Press the Power (ON / OFF) button (1) again to turn the laser receiver OFF.

The laser receiver will automatically switch OFF after approx. 3 min. (Auto Power Off). Alternatively, it can be switched OFF manually by pressing the Power (ON / OFF) button (1).

LED backlight

Press the Backlight button (4) (the Backlight ON / OFF button (4)) to turn the backlight ON / OFF.

Accuracy

When the laser receiver is ON, press the High / Low accuracy button (14) to switch between High and Low accuracy.

The default accuracy setting is High.

NOTE: Select LOW accuracy when HIGH accuracy is not required and/or when a stable laser beam is difficult to achieve (e.g. when the laser receiver is far from the laser).

Speaker volume

Press the Speaker button (3) (Press the Speaker Volume button (3) to toggle through the Speaker volume settings. Select the desired volume setting (3 bars).

Detecting reference line

1. Place the laser receiver (2) in the path of the laser beam.
2. Slide the laser receiver (2) up and down in the direction shown on the laser receiver (2) until the laser receiver (2) indicates that the reference line is aligned with the laser beam. The laser receiver (2) will indicate the direction in which the laser receiver (2) must be moved to the reference line. The display also indicates the Approximate measuring battery life.
3. Adjust the laser receiver (2) so that the laser beam is aligned with the Front reference line (11).
4. Mark the reference line.
5. Rotate the laser receiver (2) 180° and repeat steps 1 – 4.
6. Mark the reference line.

Marking

The reference line marks the laser detected, mark the position at the Front reference line (11) and the Rear reference line (12).

NOTE: If you use the top of the laser receiver as the marking point, refer to the reference line on the front side of the device. Alternatively, you can measure the distance between the reference line and the top of the device and add this measurement to the measured distance.

Drop the reference mark from the laser detected, mark the position at the reference signal mark on the ground.

Using the Tripod

Place the device on a tripod with a 1/4" thread. Tighten the device to the tripod using the tripod's thumb screw. Secure tighten the clamp to ensure the laser receiver remains stationary on the rod.

MAINTENANCE

Cleaning

Wipe the laser receiver (2)(7)(8) and the R-7 (2) (R-7 (2)) Battery compartment (9) with a soft, dry cloth. Do not use any cleaning agents or solvents. Remove the battery before cleaning. Do not immerse the device in water. Do not allow water to enter the battery compartment (9). Do not use the device if the battery compartment (9) is damaged.

Storage

Remove the battery before storing the device. Store the device in a dry, cool place. Do not expose the device to extreme temperatures. Do not expose the device to direct sunlight.

Battery

Do not short circuit the battery. Do not dismantle, open or crush the battery. Do not expose the battery to heat or fire. Do not overcharge the battery. Do not use damaged or modified batteries. Remove the battery if the device is not used for a long time. Remove and exchange the battery if the battery leaks. Do not use the battery if it is damaged or deformed.

Disposal

Dispose of the product, packaging and batteries in an environmentally friendly way. Do not dispose of the product with household waste. Do not dispose of batteries in fire. Do not short circuit batteries. The product complies with the WEEE directive and is marked with the symbol for separate collection of used electrical appliances. The product is designed to operate with a standard 9 V alkaline battery. Use a battery of the specified type.

DISMANTLING

Disabling the Battery

1. Remove the Battery compartment (10) by flipping open the battery cover.
2. Insert the Battery, ensuring that the polarity is correct and corresponds to the diagram inside the Battery compartment (9).
3. Secure the cover of the Battery compartment (10).

Battery status

Pay close attention to the (11) and (12) markings inside the Battery compartment (10) to ensure correct battery installation. Incorrect battery installation may damage the device. Avoiding of damage caused by improper battery installation is not covered by the warranty.

LED CODES

	Reference line higher than laser beam. Move the laser receiver in the direction shown (up).
	Reference line lower than laser beam. Move the laser receiver in the direction shown (down).
	Reference line aligned with laser beam.

SYMBOLS

Laser / Soft / Mute

Low accuracy mode

High accuracy mode

Battery status – solid

Approximate measuring battery life is shown.

Battery status – blinking

Low battery warning

ENVIRONMENTAL PROTECTION

Dispose of unwanted the accessories, power tools, packaging, accessories and operating materials in an environmentally friendly way. Do not dispose of electrical equipment, batteries and packaging together with household waste.

Dispose of electrical tools, packaging and operating materials in an environmentally friendly way. Only EU member states: Observe the EU directive on waste electrical equipment. Return the defective or used batteries to the dealer or to a collection point for recycling.

GUARANTEE PERIOD

Dispose of unwanted the accessories, power tools, packaging, accessories and operating materials in an environmentally friendly way. Do not dispose of electrical equipment, batteries and packaging together with household waste.

Dispose of electrical tools, packaging and operating materials in an environmentally friendly way. Only EU member states: Observe the EU directive on waste electrical equipment. Return the defective or used batteries to the dealer or to a collection point for recycling.

DECLARATION OF CONFORMITY

We declare that this product has been designed and manufactured in accordance with the following standards and guidelines: EN 60825-1:2014, EN 61326-1:2013, EN 61326-2-6:2013, EN 50581:2012, 2014/30/EU, 2011/65/EU, 2012/19/EU, 2014/35/EU, 2006/42/EC, 2014/53/EU, 2014/68/EU, 2015/863/EU

SYMBOLS ON THE PRODUCT

Read instruction manual

Laser radiation warning

Protect against high environmental and working temperatures

Do not heap or operate in wet environment

Class II protection tool

In accordance with European applicable safety standards of European Union

European Conformity mark

Ukraine Conformity mark

GENERAL SAFETY WARNINGS

WARNING! Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow the following instructions listed below may result in electric shock, fire and/or serious injury.

Keep all safety warnings and instructions for future reference.

ADDITIONAL SAFETY WARNINGS

1. Avoid exposure to direct sunlight, extreme temperatures and significant temperature changes. Do not place the device near heat sources or in conditions where the device may become damp. Do not place the device near strong electromagnetic fields. Do not drop the device or subject it to strong vibrations.

2. Do not use the device in explosive areas or in the presence of flammable liquids, gas or dust. Electrical tools generate sparks which may ignite dust or fumes.

3. Do not point the laser beam at other people or at their eyes. Even if you are only aiming at someone from a distance, this increases the risk of temporary dazzle, accidents or damage to eyes.

4. Do not use optical aids to look at the laser beam. Optical aids such as binoculars or telescopes increase the intensity of the laser beam and may cause eye damage.

5. Do not modify the laser system. Modifications to the laser system may increase the intensity of the laser beam and cause eye damage.

6. Keep batteries and remove or exchange them if necessary. Failure to do so may lead to injuries or damage to the device due to leakage.

7. Do not short circuit the battery. Short circuit may cause injuries or damage due to overheating or explosion. Do not store the battery in a place where it may be short circuited by other metal or conductive objects. Short circuiting increases the risk of fires.

8. Do not use damaged or modified batteries. Damaged or modified batteries may have unpredictable results and cause fire, explosion or injuries.

9. Do not dismantle, open or crush the battery. Failure to do so may lead to injuries or damage to the device due to leakage.

10. Do not expose the battery to heat or fire. Exposure to heat or fire may lead to explosion.

11. Do not overcharge the battery. Overcharging may damage the battery and increase the risk of fire and injuries.

12. Do not use the device for other purposes. Failure to do so may lead to injuries or damage to the device.

13. Do not use the device if the laser beam is aligned with the Rear reference line (11) and the laser beam is aligned with the Rear reference line (12). Failure to do so may lead to injuries or damage to the device.

14. Do not use the device if the laser beam is aligned with the Front reference line (11).

15. Do not use the device if the laser beam is aligned with the Front reference line (12).

IN GENERAL

Pay close attention to the (11) and (12) markings inside the Battery compartment (10

PRO·CRAFT

MANUAL

LASER RECEIVER
LR-10

Fig. 1-12 Yellow / Kirsikka / Sitruuna / Punainen / Oranssi / Musta / Tan / Vihreä

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quent up-height transfer and alignment tasks during installation, leveling and layout work. The LR10 receiver, which detects and further uses the Pro-Craft LR10 display and the Pro-Craft LR10 remote control, is suitable for use with rotating laser levels from the Pro-Craft product portfolio. Another advantage is provided by the function with which control can be carried out remotely using the Pro-Craft LR10 remote control. The receiver can be attached to a measuring rod or other suitable mounting accessories. The receiver can be used in conjunction with the Pro-Craft LR10 display, which provides the user with information about the current position of the laser beam.

SAFETY WARNING!

1. Read the user guide, warning, instruction, illustration and specification provided with this product. Failure to follow the following instructions may result in electric shock, fire and/or serious injury.

2. Do not remove any labels from the product. Replace any illegible or missing labels immediately. Illegible or missing labels must be replaced with genuine Pro-Craft replacement labels.

3. Do not use the product for purposes for which it is not intended. Failure to do so may lead to injuries to the user and damage to the product.

4. Wear a suitable safety garment and protective equipment. Failure to do so may lead to injuries to the user and damage to the product.

5. Use the device only with adequate lighting. Poor visibility increases the risk of injury and damage to the product.

6. Do not make unauthorized modifications to the laser receiver. Modifications to the laser receiver may reduce the safety of the laser receiver and lead to accidents.

7. If the device is dropped, subjected to impact or forces objects enter the housing, switch off the laser receiver and have it checked by a qualified specialist. Failure to do so may result in electrical shock and damage to the laser receiver.

8. Do not use the laser receiver if the housing is damaged. Damage to the housing may lead to electrical shock and damage to the laser receiver.

9. Do not disassemble the laser receiver. Improper assembly may lead to electrical shock and damage to the laser receiver.

10. If the device is dropped, subjected to impact or forces objects enter the housing, switch off the laser receiver and have it checked by a qualified specialist. Failure to do so may result in electrical shock and damage to the laser receiver.

11. Do not use the laser receiver in explosive environments such as in the presence of flammable liquids, gas or dust. Sparks may ignite the dust or fumes.

12. Do not use the laser receiver in the vicinity of children and people with limited physical, sensory or mental abilities. Failure to do so may lead to injuries to the user and damage to the product.

13. Do not use the laser receiver in the vicinity of other laser devices. Failure to do so may lead to injuries to the user and damage to the product.

14. Do not use the laser receiver in the vicinity of medical devices. Failure to do so may lead to injuries to the user and damage to the product.

15. Do not use the laser receiver in the vicinity of electronic devices. Failure to do so may lead to injuries to the user and damage to the product.

16. Do not use the laser receiver in the vicinity of aircraft or other means of transport. Failure to do so may lead to injuries to the user and damage to the product.

17. Do not use the laser receiver in the vicinity of other people. Failure to do so may lead to injuries to the user and damage to the product.

18. Do not use the laser receiver for prolonged periods. Failure to do so may lead to injuries to the user and damage to the product.

19. Do not use the laser receiver in the vicinity of other laser receivers. Failure to do so may lead to injuries to the user and damage to the product.

20. Do not use the laser receiver in the vicinity of other laser receivers. Failure to do so may lead to injuries to the user and damage to the product.

21. Do not use the laser receiver in the vicinity of other laser receivers. Failure to do so may lead to injuries to the user and damage to the product.