

Universal Laser Receiver

Model: PNLUD18

Instruction Manual



For Your Safety



Please read this instruction manual before using the device for the first time and comply with it.

Retain this instruction manual for future reference or for subsequent owners.

This instruction manual is available online under:
www.pronivo.de



CAUTION

Prior to the first start-up, it is definitely necessary to carefully read the **Safety instructions!**

Failure to adhere to this instruction manual and the safety instructions may result in damage to the device and cause dangerous situations for the operator and other people.

In case of transport damage please inform your vendor immediately.

Safety Instructions



CAUTION

Do not modify the device. Modifications can cause injuries and malfunctions.

- **Only authorised and trained personnel are allowed to repair the device.** Only use genuine spare parts from proNIVO GmbH. This ensures continuous device safety.
- **Do not look directly into the laser beam.**
- **Laser receiver should not be used in the vicinity of pacemakers.** The magnets produce a field which can affect the function of the pacemaker.
- **Keep the laser receiver away from data media and devices that react sensitive to magnetic force.** Exposure to magnets can result in irreversible data loss.

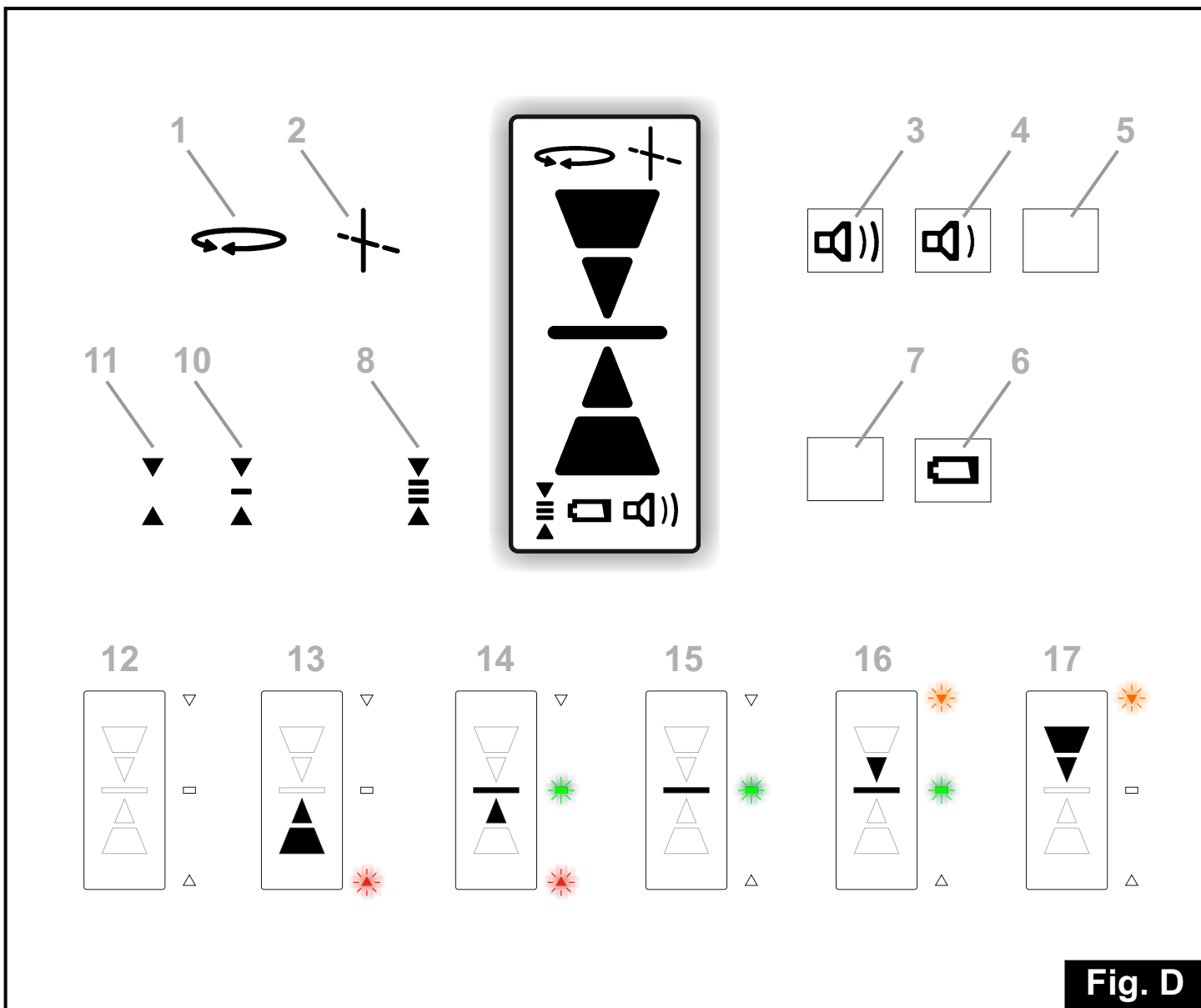
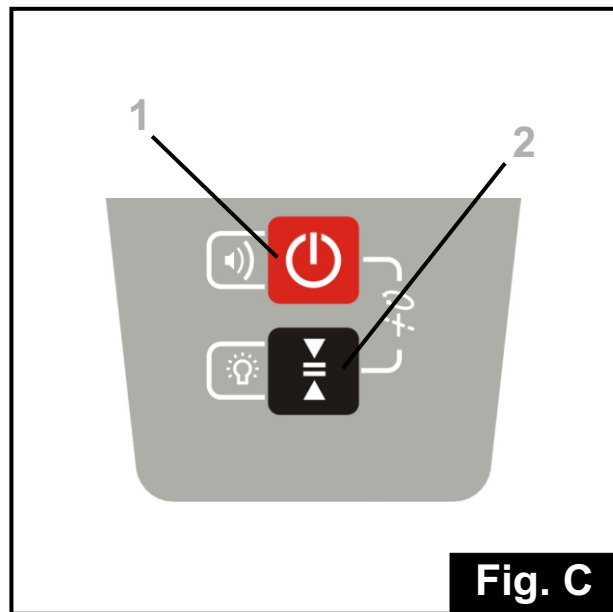
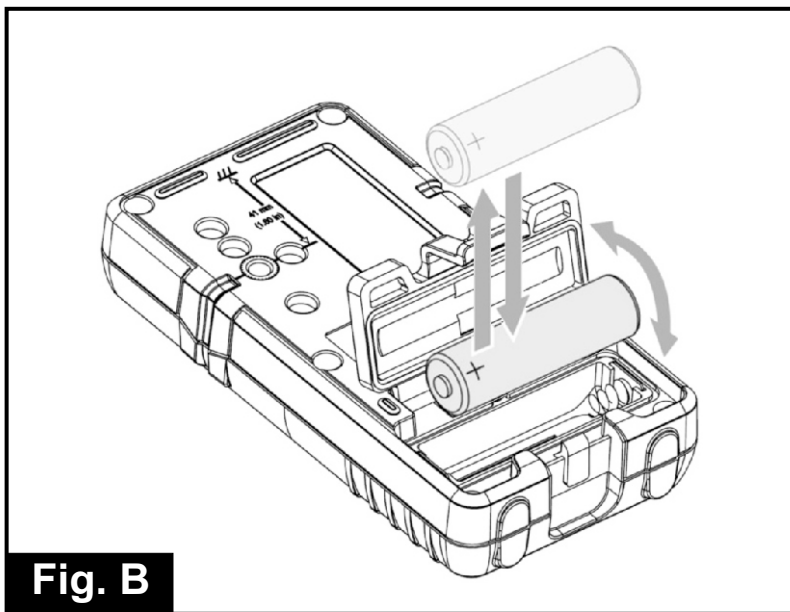
→ Noise emission

The a-rated sound pressure level of the acoustic signal is >80 db (A) at a distance of one meter.

- **Do not hold the laser receiver directly to your ear!**
- **Keep the laser receiver away from children.**
- **Do not use the laser receiver in explosive atmospheres or near flammable liquids, gases or dust.** The device may produce sparks that can ignite vapours or dust.
- Please remove the battery if the device is not in use for a prolonged period of time.
- **Use only genuine proNIVO accessories.** When using non-recommended accessories, you may receive incorrect measuring values.



Fig. A



Technical Specifications

Capture height	60 mm
Reception angle	± 45°
Wavelength	450 to 800nm
Range with rotating laser	Up to 400m (recommended speed: ≥ 600 rpm)
Range with line laser	Up to 75m (only pulsed laser lines)
Pulse freq. of line laser	7 to 12 kHz
Accuracy, adjustable	±0,3 mm / ±1 mm / ±5 mm
Beeper volumes	High / low / off
Automatic shutoff	After 30 min without key stroke / laser reception
Filter against	Flash / sun light, LED / fluorescent lamps
Marking notch	41 mm from top edge
Physical dimensions	135mm x 69mm x 25mm
Weight without clamp	0,19kg
Protection class	IP 67 (waterproof)
Power supply	1 x AA
Battery life	> 50 h
Operating temperature	-10°C to +50°C
Storage temperature	-40°C to +70°C

Proper Use

Depending on the selected operating mode, the receiver detects either the laser beams of rotating lasers or the (horizontal or vertical) laser lines of line lasers with hand-held receiver function, provided that the emitted laser light is red. Any other use than the described above shall be deemed to be improper use.

The user is liable for damage resulting from improper use.






Device Elements (Fig. A)

- 1 Magnet
- 2 LED indicator (orange)
- 3 LED indicator (green)
- 4 LED indicator (red)
- 5 Laser-sensitive area
- 6 Marking notch
- 7 Clamp
- 8 Keypad
- 9 Bubble vial
- 10 Display
- 11 Type plate with serial number
- 12 Fixing thread for the clamp
- 13 Beeper
- 14 Battery door and latch

Start-Up

Avoid violent shocks or dropping the unit.

Inserting / changing the battery (Fig. A/B)

-  Change the battery if  is displayed .
-  Open the battery cover [14].
-  Remove the battery and insert a new one (observe correct polarity!).
-  Dispose of the used battery (see chapter on environmental protection).

Operation


Keypad overview (Fig. C)

- 1 On / Off / Volume
- 2 Accuracy / LED activation


Display overview (Fig. D)

- 1 "Rotating laser" mode
- 2 "Line laser" mode
- 3 Beeper volume: High
- 4 Beeper volume: Low
- 5 Beeper volume: Off
- 6 Battery low
- 7 Battery Ok
- 8 Accuracy of readings: Coarse, ± 5 mm
- 10 Accuracy of readings: Fine, ± 1 mm
- 11 Accuracy of readings: Extra fine, $\pm 0,3$ mm



Switching the device on

-  Press the On / Off button [1]



Switching the device off

-  Press the On / Off button [1] long



Adjusting the volume

-  Press button [1] briefly, if necessary repeated
 -  Switches the beeper volume between High / Low / Off


Selecting the operating mode

-  Press button [1] and [2] for >3 seconds
 -  Switches from rotating laser to line laser and vice versa



Adjusting the accuracy

-  Press button [2] briefly, if necessary repeated
 -  Switches the accuracy of readings between Coarse / Medium / Fine / Extra fine

Activating / Deactivating the LEDs

-  Press button [3] for >3 seconds

Operation

-  Hold the device vertically (in case of a vertical laser plane: horizontally) and move it towards the laser plane.
-  Please pay attention to the acoustic signals and arrows on the (LED) display.

Display overview (fig. D)


Signs on the display Acoustic Signals

12	No laser	None
13	Much too low	Fast interval tone
14	Too low	Fast interval tone
15	On-grade	Continuous tone
16	Too high	Slow interval tone
17	Much too high	Slow interval tone









Note

When the device is switched on, it is in the operating mode used before it was switched off.

-  If in **line laser mode**, the device detects only the line laser type which was first detected after power on.

Maintenance and Care

Keep the device always clean, especially the laser-sensitive area!

-  Do not use aggressive cleaning agents or solvents.
-  If soiled heavily the device can be cleaned under running water.
-  Do not use high-pressure cleaner.
-  Allow it to dry completely before storing it in a closed container. Residual moisture can result in corrosion of the battery contacts. In this case our warranty expires.
-  In the unlikely event of a failure or defect, have the appliance examined and repaired by proNIVO.
-  In all your queries and spare part orders, always quote the 8-digit product number (see type plate) of your device.

Environmental Protection



Do not dispose of the device with domestic waste. Have the device disposed of by an authorised waste management company or your municipal waste management organisation.

Adhere to the applicable regulations. In case of doubt contact your waste management organisation. Recycle all packaging material in an environmentally friendly manner.

Batteries:

Do not dispose of batteries with domestic waste, do not expose them to fire or water. Collect and recycle batteries or dispose of them with due care for the environment.

Warranty

All proNIVO instruments are tested before shipping. The following warranty regulations apply: The right to claim warranty for defects and laws remain untouched.

- 1) proNIVO obligates itself to correct defects of the instrument for free if they are caused by a production or material issue verifiably during the warranty period.
- 2) The warranty period is 24 months and starts on the purchase date to the first end user (original invoice).
- 3) The warranty does not apply for parts whose defects are caused by usage or wearout. The warranty does not apply for instrument defects which are caused by not taking the manual into account, improper use, insufficient service or maintenance and by usage of not original spare parts or accessories. The warranty gets lost by modifications or additions to the instruments. The warranty does not apply for defects which do not interfere with the normal usage of the instruments.
- 4) proNIVO reserves the right to repair or exchange the instruments according to its own decision.
- 5) Other rights to claim as the above mentioned are not covered by warranty.
- 6) After proNIVO repaired or exchange the instrument under warranty, the warranty period is not renewed or extended.

7) The warranty of 12 months for commercial customer applies for accessories like batteries, rechargeable batteries, chargers, remote controls, mounts, targets etc.

German law applies for this warranty. The CISG (United Nations Convention on Contracts for the International Sale of Goods) is excluded. Subject to modifications and amendments.

Declaration of Conformity

We herewith declare that this product conforms with the following standards and directives:

Standards

- DIN EN 61000-6-1
- DIN EN 61000-6-3

in accordance with the regulations stipulated in the directives:

EC Directive

- 2014/30/EU
- 2014/35/EU

Technical Documentation at:

proNIVO Messgeräte Handels GmbH



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proNIVO Messgeräte Handels GmbH
Sankt Wolfgang, 28.12.2018