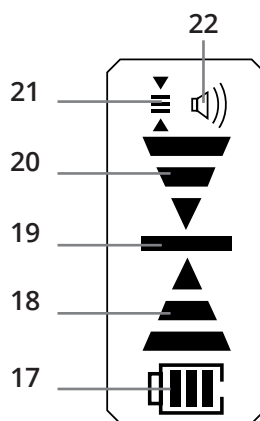
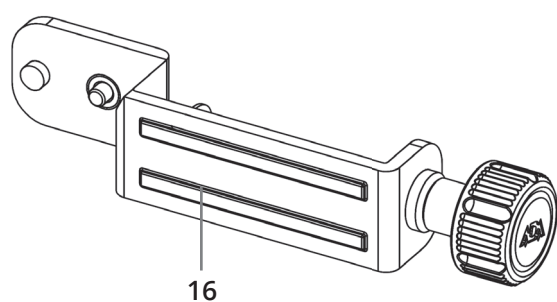
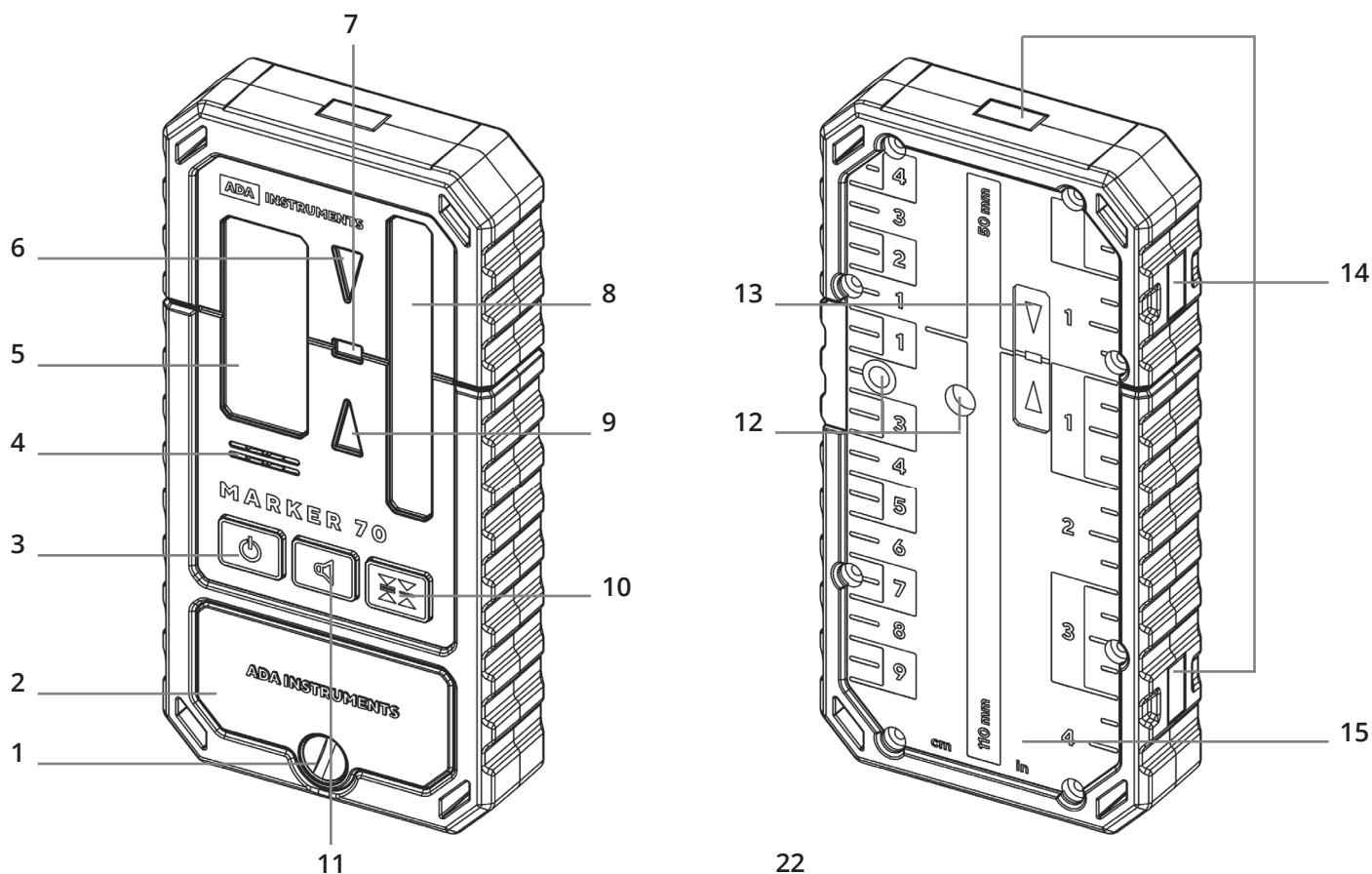


OPERATING MANUAL

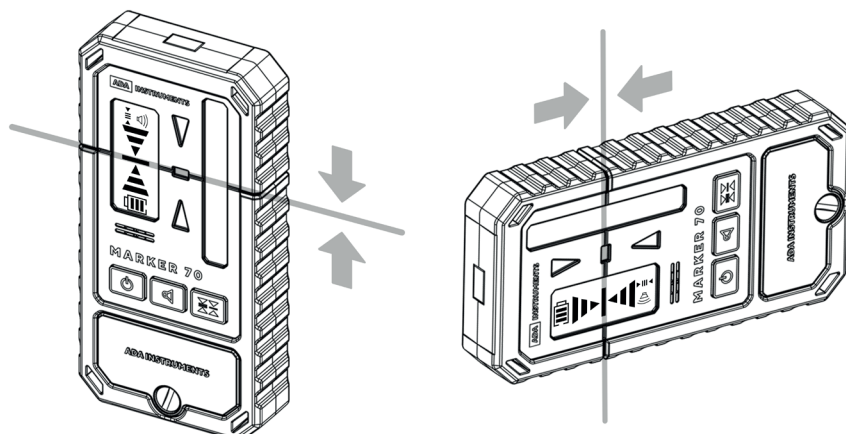
LASERMARKER 70 Laser receiver


FEATURES:

1. Screw of the battery compartment cover
2. Battery compartment cover
3. On/Off button
4. Loud speaker
5. Display
6. LED indicator for the direction «down»
7. LED center indicator
8. Detection sensor
9. LED indicator for the direction «up»
10. Frequency adjustment button
11. Sound button
12. Place for mount installation
13. LED indicators of detection
14. Magnets
15. Laser target
16. Mount

DISPLAY:

17. Power indicator
18. Indicator for the direction «up»
19. Middle mark
20. Indicator for the direction «down»
21. Measurement accuracy indicator
22. Sound alarm indicator



OPERATING MANUAL

LASERMARKER 70 Laser receiver

SPECIFICATIONS

Working range*	5–70 m
Accuracy **	– «fine adjustment» ±1 mm – «rough adjustment» ±3 mm
Angle of beam reception	90°
Protection	IP 54
Batteries	2 × 1,5 V (AAA)
Working temperature	–10 °C...+50 °C
Storage temperature	–20 °C...+70 °C
Dimensions	160 x 80 x 25 mm
Weight	0,15 kg

* Working range may be reduced due to unfavorable environmental conditions (e.g. direct sunlight). The receiver can react to nearby pulsating light (LED lamps, monitors).

** Depends on the distance between the receiver and line laser.

INSTALLATION/BATTERY REPLACEMENT

Unscrew the screw from the battery compartment cover. Open the battery compartment cover. Insert 2 batteries, type AAA/1,5V. Observe the polarity. Close the cover. Fasten the screw.

Note! Remove the batteries from the receiver, if you are not going to work with it for a long time. Long-term storage may cause corrosion and self-discharge of batteries.

MOUNT FOR THE RECEIVER

Receiver can be securely fixed with the help of a mount (16). If necessary, the receiver can be attached to steel parts using magnets (14).

ADJUSTMENT OF THE RECEIVER

The receiver must be adjusted to the frequency of the line laser before use. All settings are saved after switching off.

Choose one of the pre-installed frequencies for the setting. Switch on the receiver to enter this mode. Press and hold sound button (11) for more than 20 sec. All arrows (18 and 20), middle mark (19) will light up on the display. Blinking sector shows the selected frequency variant. Press frequency adjustment button (10) to change the frequency variant. To save your choice, press and hold button (11) for more than 5 sec. If the receiver doesn't react on the laser beam, choose another frequency variant (distance to check is no less than 5 m). Sector, indicating the selected frequency variant, will blink 3 times when switching on the receiver.

USAGE

Use the receiver mode in bright light, when the laser beam is poorly visible. Minimum distance to use a receiver is 5 m. Switch on the detector mode on the line laser. Switch on the receiver by pressing On/Off button. Switch on or switch off the backlight by short pressing On/Off button. Press and hold On/Off button for more than 3 sec to switch Off the receiver. Select the measurement frequency by pressing button (10). Icon of the selected mode for scanning beam will appear on the display: ±1 mm (one bar), ±2 mm (2 bars). Choose the sound (2 variants) or mute mode by pressing sound button (11). When the sound mode is selected, the loud speaker icon is shown on the display. Place the receiver sensor towards the laser beam and move it up and down (horizontal beam scanning) or right and left (vertical beam scanning), until arrows will appear on the display (LED arrows will light up). There will be a sound alarm when the arrows will appear on the display (if the sound is ON). Move the receiver towards the arrows. When the laser beam is in the middle of the receiver, a continuous beep sounds and the display shows the middle mark (LED center indicator lights up). Marks on the sides of the receiver correspond to the middle position of the laser beam on the receiver. Use them to mark the surface to be marked. When marking, the receiver must be strictly in vertical position (horizontal beam) or strictly in horizontal position (vertical beam). Otherwise the mark will be shifted. Laser target (15) is on the back side of the receiver. It is used as a template without switching on the receiver.

CARE AND CLEANING

- Handle the receiver with care.
- Never immerse it into the water or other liquids.
- Clean with dry soft cloth only after any use. Do not use any cleaning agents or solvents.
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WARRANTY

This product is warranted by the manufacturer to the original purchaser to be free from defects in material and workmanship under normal use for a period of two (2) years from the date of purchase. During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with the same or similar model at manufacturer's option), without charge for either parts or labour. In case of a defect please contact the dealer where you originally purchased this product. The warranty will not apply to this product if it has been misused, abused or altered. Without limiting the foregoing, leakage of the battery, bending or dropping the unit are presumed to be defects resulting from misuse or abuse.

EXCEPTIONS FROM RESPONSIBILITY

The user of this product is expected to follow the instructions given in operators' manual. Although all instruments left our warehouse in perfect condition and adjustment the user is expected to carry out periodic checks of the product's accuracy and general performance. The manufacturer, or its representatives, assumes no responsibility of results of a faulty or intentional usage or misuse including any direct, indirect, consequential damage, and loss of profits. The manufacturer, or its representatives, assumes no responsibility for consequential damage, and loss of profits by any disaster (earthquake, storm, flood ...), fire, accident, or an act of a third party and/or a usage in other than usual conditions.

The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits due to a change of data, loss of data and interruption of business etc., caused by using the product or an unusable product. The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits caused by usage other than explained in the users' manual.

The manufacturer, or its representatives, assumes no responsibility for damage caused by wrong movement or action due to connecting with other products.

WARRANTY DOESN'T EXTEND TO FOLLOWING CASES:

1. If the standard or serial product number will be changed, erased, removed or will be unreadable.
2. Periodic maintenance, repair or changing parts as a result of their normal runout.
3. All adaptations and modifications with the purpose of improvement and expansion of normal sphere of product application, mentioned in the service instruction, without tentative written agreement of the expert provider.
4. Service by anyone other than an authorized service center.
5. Damage to products or parts caused by misuse, including, without limitation, misapplication or negligence of the terms of service instruction.
6. Power supply units, chargers, accessories, wearing parts.
7. Products, damaged from mishandling, faulty adjustment, maintenance with low-quality and non-standard materials, presence of any liquids and foreign objects inside the product.
8. Acts of God and/or actions of third persons.
9. In case of unwarranted repair till the end of warranty period because of damages during the operation of the product, its transportation and storing, warranty doesn't resume.

WARRANTY CARD

Name and model of the product _____

Serial number _____ Date of sale _____

Name of commercial organization _____

stamp of commercial organization _____

Warranty period for the instrument exploitation is 24 months after the date of original retail purchase. During this warranty period the owner of the product has the right for free repair of his instrument in case of manufacturing defects. Warranty is valid only with original warranty card, fully and clear filled (stamp or mark of the seller is obligatory). Technical examination of instruments for fault identification which is under the warranty, is made only in the authorized service center.

In no event shall manufacturer be liable before the client for direct or consequential damages, loss of profit or any other damage which occur in the result of the instrument outage.

The product is received in the state of operability, without any visible damages, in full completeness. It is tested in my presence. I have no complaints to the product quality. I am familiar with the conditions of warranty service and I agree.

purchaser signature _____

Before operating you should read service instruction!

If you have any questions about the warranty service and technical support contact seller of this product