ADA INSTRUMENTS CUBE 360 Laser Level User Manual

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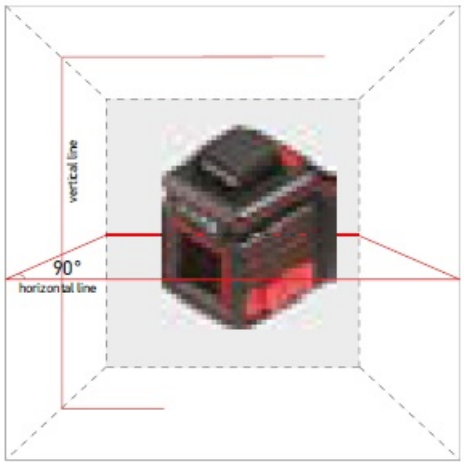
CAUTIONS

Laser level ADA CUBE 360 model – is an up-to-date functional and multi-prism device designed for indoor and outdoor performance. The device emits: one horizontal laser line (beam scan angle of 360°) one vertical laser line (beam scan angle of 110°); down point laser. Do not look at the laser beam! Do not install the device on the eye level! Before using the device, do read this operating manual!



TECHNICAL REQUIREMENTS

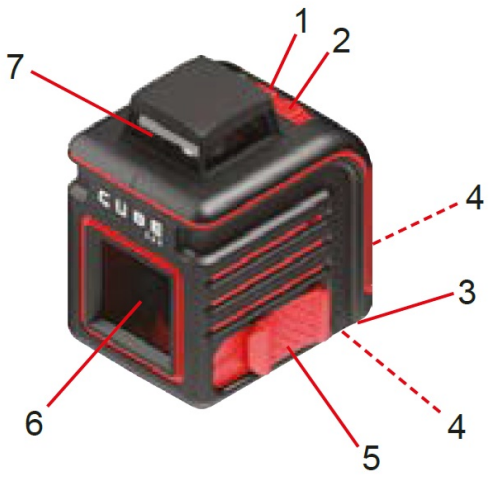
FUNCTIONAL DESCRIPTION

Emitting a horizontal and vertical laser line. Quick self-leveling: when line accuracy is out of the range the laser line flashes and the warning sound is produced. Compensator locking system for safe transportation. Intermediate compensator locking system for slope operation. Indoor and outdoor performance function.

FEATURES

1. Laser lines on/off
2. Indoor/outdoor operating mode

3. Battery compartment
4. Tripod mount 1/4’’
5. Compensator switch (ON/X/OFF)
6. Vertical laser window
7. Horizontal laser window



SPECIFICATIONS

- Laser Horizontal line 360°/vertical line
- Light sources 2 laser diodes with laser emission wave length of 635 nm
- Laser safety class Class 2, <1mW
- Accuracy ±3 mm/10 m
- Self-leveling range ±4°
- Operating range with/without receiver 70/20 m
- Power source 3 alkaline batteries, AA type
- Operation time Approx. 15 hours, if everything is on
- Tripod thread 2x1/4”
- Operating temperature -5°C +45°C
- Weight 390 g

SAFETY REQUIREMENTS AND CARE

Follow safety requirements! Don’t face and stare at laser beam! Laser level is an accurate Instrument, which should be stored and used with care. Avoid shaking and vibrations! Store the Instrument and It’s accessories only In the carrying case. In case of high humidity and low temperature, dry out the Instrument and clean It after the usage. Do not store the Instrument at a temperature below -20°C and above 50°C, otherwise the Instrument can be out of action. Don’t put the Instrument Into the carrying case If the Instrument or case are wet. To avoid moisture condensa-tion Inside the Instrument- dry out the case and laser

Instrument!
Check regularly Instrument adjustment! Keep the lens clean and dry. To clean the Instrument use a soft cotton napkin!

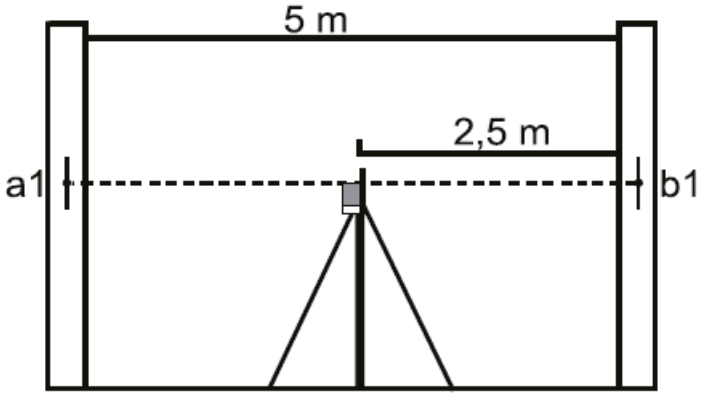
ORDER WORKING

Cube 360 is a reliable and convenient instrument. It will be an irreplaceable instrument for many years.

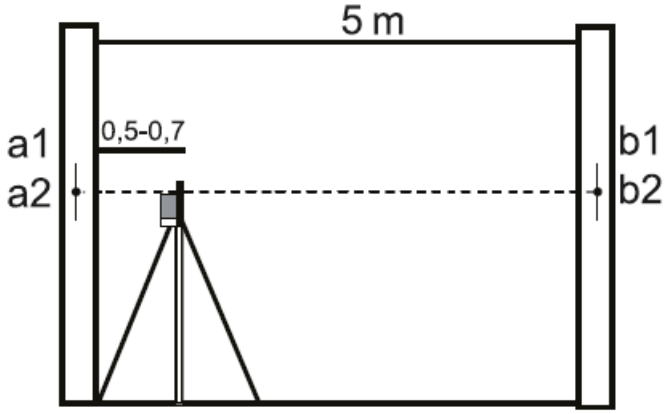
1. Before use, remove the battery compartment cover. Insert three batteries into battery compartment with proper polarity, then put the cover back.
2. 2. Set the compensator locking grip 5 into ON position, two laser beams will be on. If the switch is ON,that means the power is on and the compensator is working. If switch 5 is in an intermediate position, that means the power is opened,the compensation is still locked, but it will not warn if you issue the slope. It's the hand mode.
   If switch 5 is OFF, that means that the instrument is off, the compensator is also locked.
3. Press button 1 only once- the horizontal beam will turn on. Press button 1 one more time – the vertical laser beam will turn on. Again press button 1 – horizontal and vertical beams will turn on.
4. Press button 2 once. Outdoor mode is activated. Press button 2 one more time. The instrument begins to work in indoor mode.

To check the accuracy of line laser level

To check the accuracy of a line laser level (slope of plane)
Set up the instrument between two walls, the distance is 5m. Turn on the Line Laser, and mark the point of the cross laser line on the wall. Rotate the instrument by 180° and mark the point of the cross laser line on the wall again. Set up the instrument 0,5-0,7m away from the wall and make, as described above, the same marks. If the difference {a1-b2} and {b1-b2} is less than the value of "accuracy" (see specifications), there is no need in calibration. Example: when you check the accuracy of Cross Line Laser the difference is {a1-a2}=5 mm and {b1-b2}=7 mm. The instrument's error: {b1-b2}-{a1-a2}=7-5=2 mm. Now you can compare this error with a standard error. If the accuracy of Laser level isn't corresponding with claimed accuracy, contact the authorized service center.

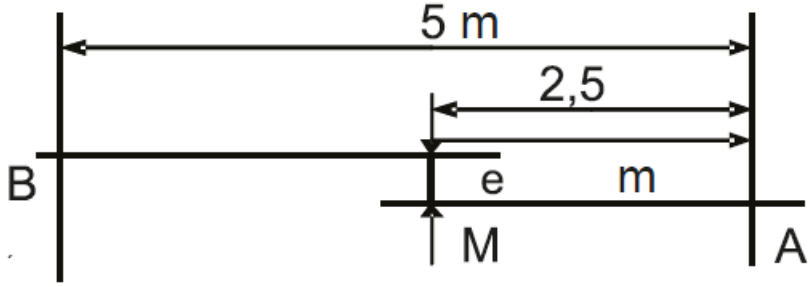


To check level
Choose a wall and set laser 5m away from the wall. Turn on the laser and cross laser line is marked A on the wall. Find another point M on the horizontal line, the distance is around 2.5m. Swivel the laser, and another cross point of cross laser line is marked B. Please note the distance of B to A should be 5m. Measure the distance between M to cross laser line.



To check plumb

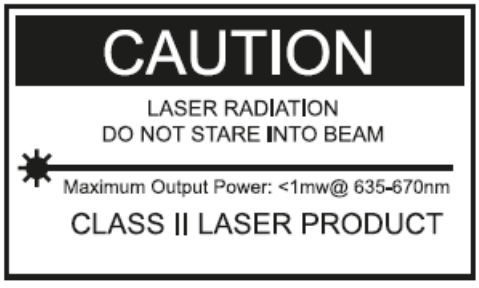
Choose a wall and set the laser 5m away from the wall. Hang a plumb with a length of2.5 m on the wall. Turn on the laser and make the vertical laser line meet the point of the plumb. The accuracy of the line is in the range if the vertical line doesn't exceed (up or down) the accuracy that is shown in the specifications (e.g. ±3mm/10m). If the accuracy isn't corresponding with claimed accuracy, contact the authorized service center.



APPLICATION

This cross-line laser level generates a visible laser beam allowing to make the following measurements: Height measurement, calibration of horizontal and vertical planes, right angles, the vertical position of installations, etc. The cross-line laser level is used for indoor performance to set zero marks, for marking out of bracing, installation of tingles, panel guides, tiling, etc. The laser device is often used for marking out in the process of furniture, shelf or mirror installation, etc. Laser devicee may be used for outdoor performance at distance within its operation range.

SAFETY PRECAUTION



1. A caution label regarding laser class must be placed at the battery compartment cover.
2. Do not look at the laser beam.
3. Do not install the laser beam at eye level.
4. Do not try to disassemble the instrument. In the case of failure, the instrument will be repaired only in authorized facilities.
5. The instrument meets laser emission standards.

CARE AND CLEANING

Please handle the measuring instruments with care. Clean with soft cloth only after any use. If necessary damp cloth with some water. If the instrument is wet clean and dry it carefully. Pack it up only if it is perfectly dry. Transport in original container/case only. Note: During transport On/Off compensator lock (5) must be set to position “OFF”. Disregarding may lead to damage of compensation.

SPECIFIC REASONS FOR ERRONEOUS MEASURING RESULTS

- Measurements through glass or plastic windows;
- Dirty laser emitting window;
- After the instrument has been dropped or hit. Please check the accuracy.
- Large fluctuation of temperature: if the instrument will be used in cold areas after it has been stored in warm areas (or the other way round) please wait some minutes before carrying out measurements.

ELECTROMAGNETIC ACCEPTABILITY (EMC)

- It cannot be completely excluded that this instrument will disturb other instruments (e.g. navigation systems);
- will be disturbed by other instruments (e.g. intensive electromagnetic radiation nearby industrial facilities or radio trans-mitters).

LASER CLASSIFICATION

The instrument is a laser class 2 laser product accortding to DIN IEC 60825-1:2007. It is allowed to use unit without further safety precautions.

SAFETY INSTRUCTIONS

- Please follow up instructions given in the operators’ manual.
- Do not stare into the beam. The laser beam can lead to eye injury (even from greater distances).
- Do not aim the laser beams at persons or animals.
- The laser plane should be set up above eye level of persons.
- Use the instrument for measuring jobs only.
- Do not open the instrument housing. Repairs should be carried out by authorized workshops only. Please contact your local dealer.
- Do not remove warning labels or safety instructions.
- Keep instruments away from children.
- Do not use instruments in explosive environments.

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 the manufacture’s option), without charge for either part of labor. 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, and 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 the 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 the results of 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 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 those 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 the normal sphere of product application, mentioned in the service instruction, without the 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, and 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 the warranty period because of damages during the operation of the product, it's a transportation and storing, the 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

The warranty period for the instrument exploitation is 24 months after the date of the original retail purchase. During this warranty period, the owner of the product has the right to free repair his instrument in case of manufacturing defects. Warranty is valid only with the 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 the manufacturer be liable before the client for direct or consequential damages, loss of profit or any other damage which occur as a 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 about the product quality. I am familiar with the conditions of warranty service and I agree.

- purchaser signature _____

Before operating you should read service instructions! If you have any questions about the warranty service and technical support contact the seller of this product

Certificate of acceptance and sale

name and model of the instrument

- Corresponds to _____ designation of standard and technical requirements
- Date of issue _____Stamp of quality control department
- Price
- Sold
- Date of sale
- name of a commercial establishment

Documents / Resources

	**ADA INSTRUMENTS CUBE 360 Laser Level** [pdf] User Manual CUBE 360, Laser Level, CUBE 360 Laser Level, Level
	**ADA INSTRUMENTS CUBE 360 Laser Level** [pdf] Instruction Manual CUBE 360 Laser Level, CUBE 360, CUBE Laser Level, 360 Laser Level, Laser Level

References

- **ADA Instruments**