



# ADA INSTRUMENTS CUBE 2-360 Laser Level Instruction Manual

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## ADA INSTRUMENTS CUBE 2-360 Laser Level Instruction Manual



### CAUTIONS

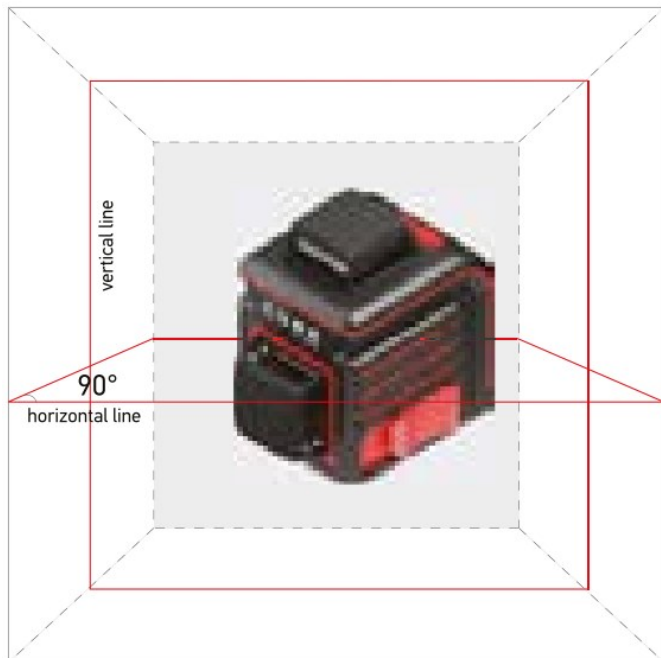
Laser level ADA CUBE 2-360 model – is an up-to-date functional and multi-prism device designed for indoor and outdoor performance. The device emits:  
one horizontal laser line (beam scan angle of 360°)

one vertical laser line (beam scan angle of 360°); 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!



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

## SPECIFICATIONS

- Laser: Horizontal line 360°/vertical line 360°
- Light sources: 2 laser diodes with laser emission wave length of 635 nm
- Laser safety class: Class 2, <1mW
- Accuracy:  $\pm 3$  mm/10 m
- Self-leveling range:  $\pm 4^\circ$
- 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:  $-5^\circ\text{C}$   $+45^\circ\text{C}$
- 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  $-20^{\circ}\text{C}$  and above  $50^{\circ}\text{C}$ , 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 condensation 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 irreplaceable instrument for many years.

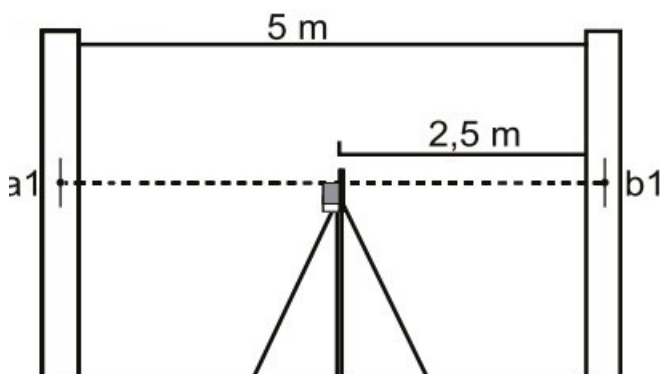
1. Before use, remove battery compartment cover. Insert three batteries into battery compartment with proper polarity, the put the cover back
2. Set the compensator locking grip 5 into ON position, two laser beams will be on.  
If the switch is ON, that means the power is on and the compensator is working.  
If the switch 5 is in 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 the switch 5 is OFF, that means that the instrument is off, the compensator is also locked.
3. Press button 1 only once- horizontal beam will turn on. Press the button 1 one more time – vertical laser beam will turn on. Again press the 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 lev

To check the accuracy of 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 cross laser line on the wall. Rotate the instrument by  $180^{\circ}$  and mark the point of 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 then the value of "accuracy" (see spesifications), there is no need in calibration.

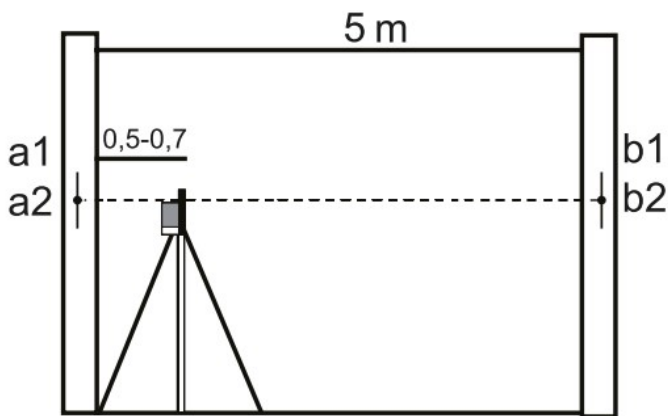
**Example:** when you check the accuracy of Cross Line Laser the difference is  $\{a1-a2\}=5\text{ mm}$  and  $\{b1-b2\}=7\text{ mm}$ . The instrument's error:  $\{b1-b2\}-\{a1-a2\}=7-5=2\text{ mm}$ . Now you can compare this error with standard error.

If the accuracy of Laser level isn't corresponding with claimed accuracy, contact the authorized service center



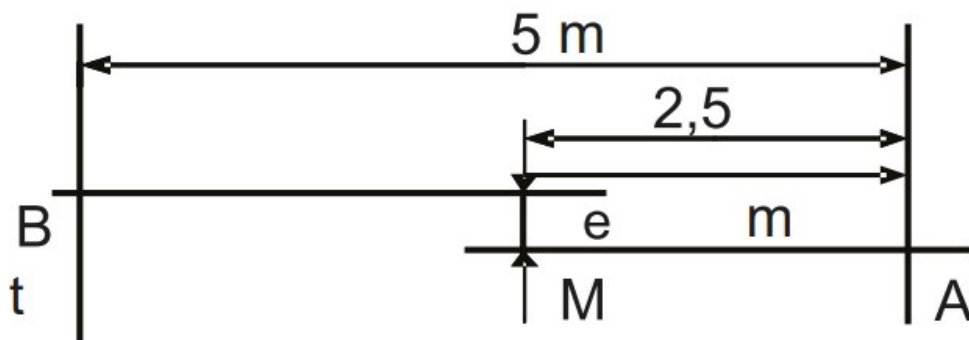
### To check level

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 laser 5m away from the wall. Hang a plumb with the length 2.5 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.  $\pm 3\text{mm}/10\text{m}$ ). If the accuracy isn't corresponding with claimed accuracy, contact the authorized service center.



### APPLICATION

This cross line laser level generates visible laser beam allowing to make the following measurements: Height measurement, calibration of horizontal and vertical planes, right angles, 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. Laser device is often used for marking out in the process of furniture, shelf or mirror installation, etc. Laser device may be used for outdoor performance at distance within its operation range.

### SAFETY PRECAUTION

1. 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 the 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 standard.



## **CARE AND CLEANING**

Please handle measuring instrument with care. Clean with soft cloth only after any use. If necessary damp cloth with some water. If 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". Disregard may lead to damage of compensator.

## **SPECIFIC REASONS FOR ERRONEOUS MEASURING RESULTS**

- Measurements through glass or plastic windows;
- Dirty laser emitting window;
- After instrument has been dropped or hit. Please check the accuracy.
- Large fluctuation of temperature: if 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 transmitters)

## **LASER CLASSIFICATION**

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

## **SAFETY INSTRUCTIONS**

Please follow up instructions given in operators' manual.

Do not stare into beam. Laser beam can lead to eye injury (even from greater distances). Do not aim laser beam 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 instrument housing. Repairs should be carried out by authorized workshop only. Please contact your local dealer. Do not remove warning labels or safety instructions. Keep instrument away from children. Do not use instrument in explosive environment.

## **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 operator's 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 user's 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

## Certificate of acceptance and sale

No

name and model of the instrument

Corresponds to

designation of standard and technical requirements

Data of issue


Stamp of quality control department

Price

Sold Date of sale

name of commercial establishment

## Documents / Resources

	<a href="#">ADA INSTRUMENTS CUBE 2-360 Laser Level</a> [pdf] Instruction Manual CUBE 2-360 Laser Level, CUBE 2-360, CUBE Laser Level, 2-360 Laser Level, Laser Level
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## References

-  [ADA Instruments](#)