



ADA INSTRUMENTS ADA Cube Line Laser Level User Manual

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ADA Cube Line Laser Level

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INSTRUMENTS

**INSTRUMENTS ADA Cube Line Laser Level
User Manual**



Manufacturer: ADAINSTRUMENTS
Address: WWW.ADAINSTRUMENTS.COM

Kit

Cross-line laser, batteries, operating manual, universal mount (optional), a tripod (optional), laser glasses (optional), carrying case (optional). The manufacturer may modify the complete set without notice.

Application

Cross Line Laser projects visible laser planes. It is used for the determination of height, making horizontal and vertical planes.

Specification

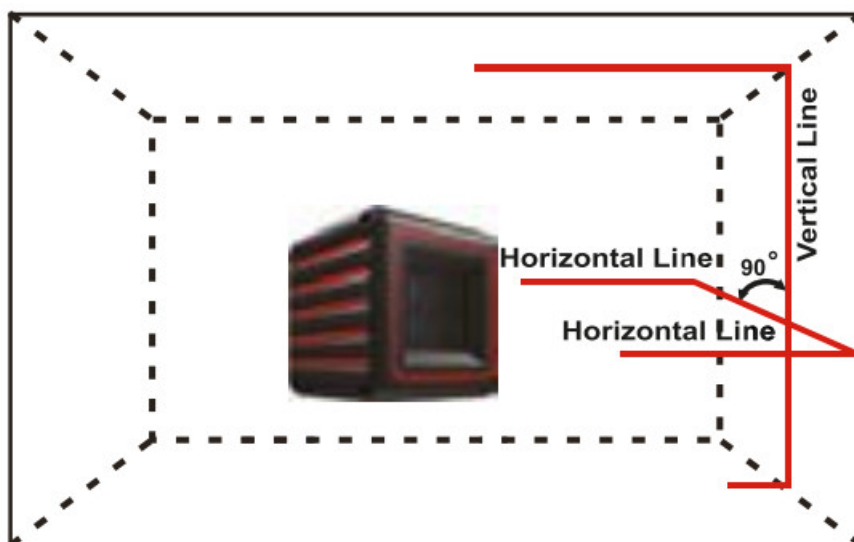
Leveling Range	self-leveling, $\pm 3^\circ$
Accuracy	$\pm 2\text{mm}/10\text{m}$
Working Range	20 m* (*depends on the illumination of the work area)
Power Supply	3xAAA Batteries Alkaline
Laser Source	2 x 635nm
Operating temperature	-10°C to 45°C
Laser class	2
Dimensions	65x65x65 mm
Weight	230 g

Change of batteries

Open the battery compartment. Put in 3xAA Alkaline batteries. Take care to correct polarity. Close the battery compartment.

ATTENTION: If you are not going to use the instrument for a long time, take out the batteries.

Laser lines



Features



1. laser emitting window
2. battery cover
3. compensator switch
4. tripod mount 1/4"

Operation

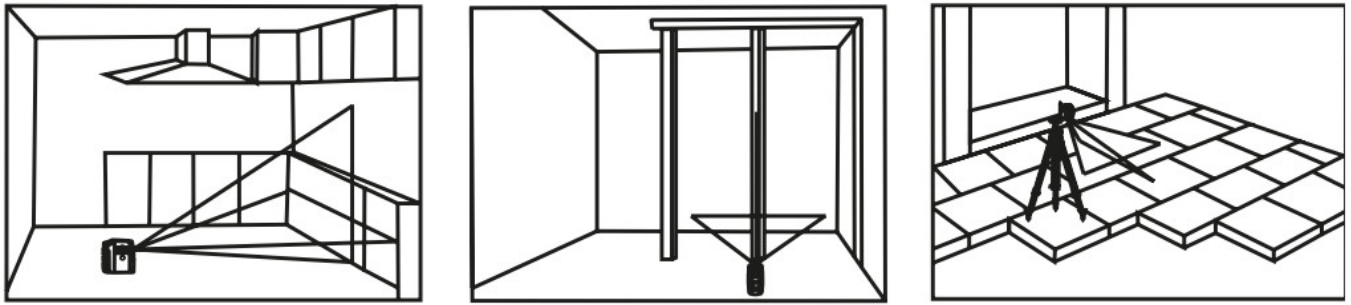
Place the instrument on the working surface or mount it on the tripod/pillar or wall mount.

Switch on the instrument: turn the compensator switch (3) to the position "ON".

When enabled, the vertical and horizontal planes are projected constantly. Visual alarm (blinking line) and audible signal indicate that the device was not installed within the compensation range $\pm 3^\circ$. To properly work align the

unit in a horizontal plane.

APPLICATION DEMONSTRATION



For more information, you can visit our website www.adainstruments.com

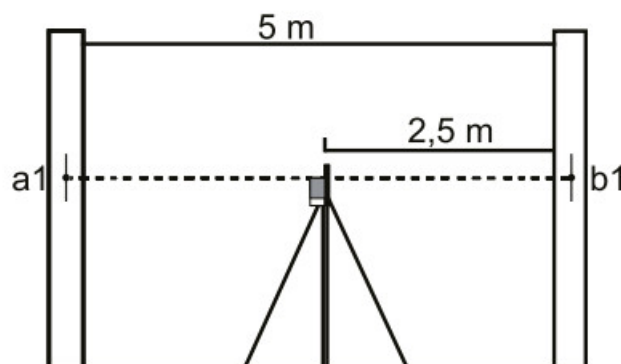
To check the accuracy of the line laser level

To check the accuracy of the line laser level (slope of plane) Set up the instrument between two walls, the distance is 5 m. Turn on the Cross Line Laser and mark the point of the cross laser line on the wall.

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 for 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 the Cross Line Laser isn't corresponding with claimed accuracy, contact the authorized service center.



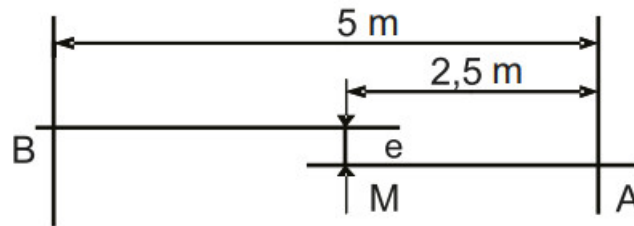
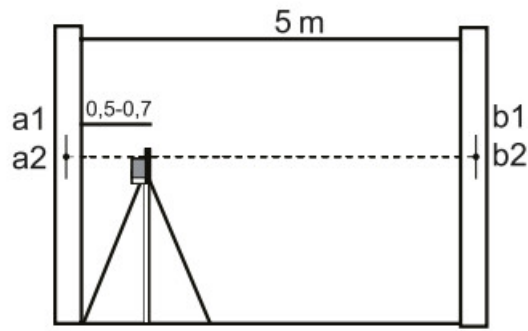
To check level

Choose a wall and set the laser 5m away from the wall. Turn on the laser and cross the 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 the cross laser line is marked B. Please note the distance of B to A should be 5m.

Measure the distance between M to cross the laser line, if the difference is over 3mm, the laser is out of calibration, please contact the seller to calibrate the laser.

To check plumb



Choose a wall and set the laser 5m away from the wall. Mark point A on the wall, please note the distance from point A to the ground should be 3m. Hang a plumb line from A point to the ground and find a plumb point B on the ground. turn on the laser and make the vertical laser line meet point B, along the vertical laser line on the wall, and measure the distance 3m from point B to point C.

Point C must be on the vertical laser line, it means the height of the C point is 3m.

Measure the distance from point A to point C, if the distance is over 2 mm, please, contact the seller to calibrate the laser.

Care and cleaning

Please handle the measuring instruments with care. Clean with a 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 (3) must be set to position "OFF". Disregarding may lead to damage to the compensator.

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 transmitters).

Laser class 2 warning label on the laser instrument



Laser classification

The instrument is a laser class 2 laser product according to DIN IEC 60825-1:2007. It is allowed to use the 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 an eye injury (even from greater distances). Do not aim 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 manufacturer's option), without charge for either part of the 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 for 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.

THE WARRANTY DOESN'T EXTEND TO THE 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 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 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, and 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 _____

Certificate of acceptance and sale

_____ NO _____

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 commercial establishment

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Documents / Resources

	ADA INSTRUMENTS ADA Cube Line Laser Level [pdf] User Manual ADA Cube Line Laser Level, ADA Cube, Line Laser Level, Laser Level, Level
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References

