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## Kit

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

## Application

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

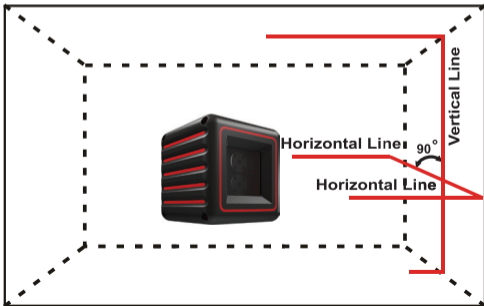
## Specifications

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

## Change of batteries

Open battery compartment. Put in 2xAAA Alkaline batteries. Take care to correct polarity. Close battery compartment.  
**ATTENTION:** If you are not going to use instrument for a long time, take out batteries.

## Laser lines



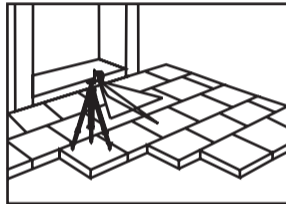
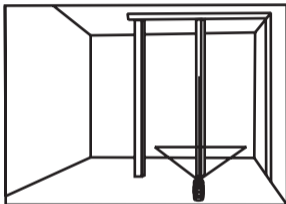
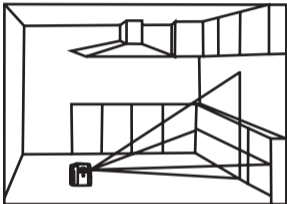
## Features



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



## APPLICATION DEMONSTRATION



For more information you can visit our website  
[www.adainstruments.com](http://www.adainstruments.com)

## To check the accuracy of line laser level

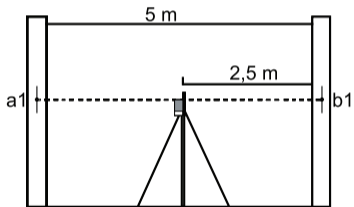
### To check the accuracy of line laser level (slope of plane)

Set up the instrument between two walls, the distance is 5 m. Turn on the Cross Line Laser and mark the point of 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 then the value of "accuracy" (see spesif cations), 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 standard error.

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

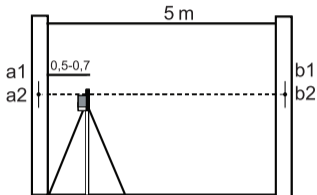




## To check level

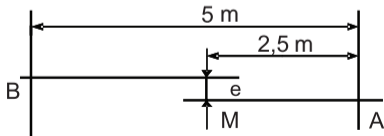
Choose a wall and set laser 5m away from the wall. Turn on the laser and cross laser line is marked A on the wall. Find another point M on the horizontal line, the distance is around 2.5m. Swivel the laser, and another cross point of cross laser line is marked B. Please note the distance of B to A should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

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



## To check plumb

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



B, along the vertical laser line on the wall and measure the distance 3m from point B to another point C. Point C must be on the vertical laser line, it means the height of C point is 3m. Measure the distance from point A to point C, if the distance is over 2 mm, please, contact with seller to calibrate the laser.

### **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 (3) 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 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 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 workshops 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 manufactures 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, food ...), 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.

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or write the letter with your questions on [info@adainstruments.com](mailto:info@adainstruments.com)



## Certificate of acceptance and sale

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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





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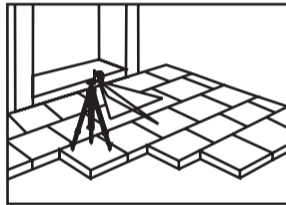
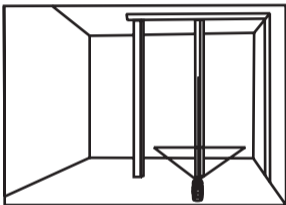
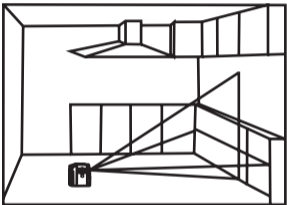


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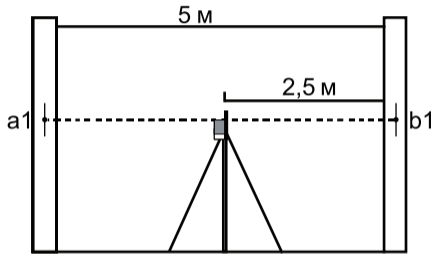
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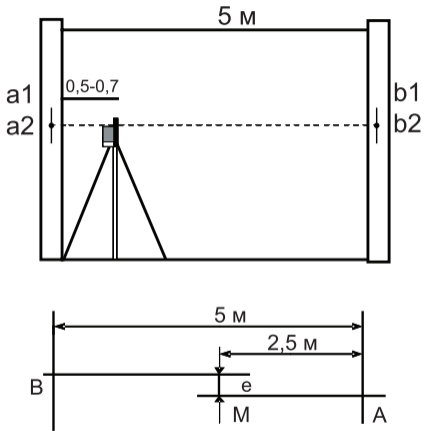
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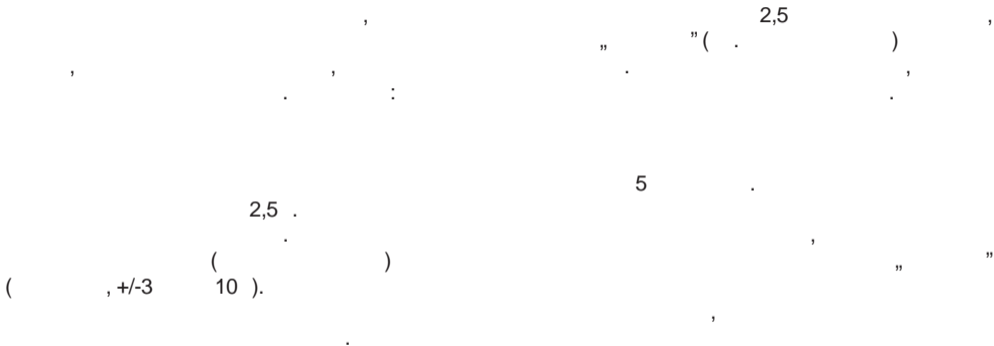
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**ВНИМАНИЕ**

лазерное излучение  
не смотрите на лазерный луч



макс. мощность излучения <1mw@ 635nm

**КЛАСС ЛАЗЕРА 2**

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DIN IEC 60825-1:2007,  
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