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ADA
INSTRUMENTS



OPERATING MANUAL

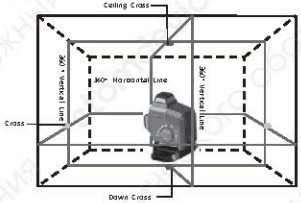
TOPLINER 3-360

Line Laser

adainstruments.com

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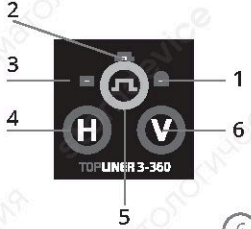
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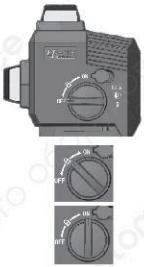
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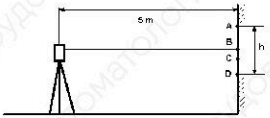
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THE MANUFACTURE RESERVES THE RIGHT TO MAKE CHANGES (NOT HAVING AN IMPACT ON THE SPECIFICATIONS) TO THE DESIGN, COMPLETE SET WITHOUT GIVING PRIOR WARNING.

APPLICATION

Line laser ADA TOPLINER 3-360 is designed to check the horizontal and vertical position of the surfaces of the elements of building structures and also to transfer the angle of inclination of the structural part to similar parts during construction and installation works.

SPECIFICATIONS

Laser beam .....2V1H (360° laser)
Light sources.....635~670nm
Laser safety class.....Class 2, <1mW
Accuracy .....±1 mm/5 m
Self-leveling range.....±4.5°
Working range (with detector).....20m (50m)
Rotation/Fine adjustment .....360 °/ ±10° (with rotation base)
Power supply.....Li-ion accumulator
Service time .....approx 5-8 h with all lines ON
Mounting thread .....1/4 " and 5/8 "
Operating temperature..... -10°C ~ +40°C
Weight .....0.9 kg

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2 FEATURES

1. Keypad
2. Jack for charger
3. Battery compartment
4. Rotating base
5. Lock switch (ON/X/OFF)
6. Vertical laser window
7. Horizontal laser window

3 KEYPAD

1. Tilt LED. Indicator lights up in the intermediate position of the compensator lock.
2. Detector LED. Indicator lights up when press Detector button.
3. Power LED. Indicator lights up when power is on. Indicator blinks when power is low.
4. Horizontal switch (H)
5. Detector switch
6. Vertical switch (V)

4 ASSEMBLAGE OF THE ROTATING BASE

- Remove the instrument from the base.
- Place the instrument on the base.

INSERT THE BATTERY

- Use standard Li-battery only.
- Pay attention to the polarity.
- Insert the battery.
- Cover the battery cover.

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5 MOUNTING THREAD

It is possible to place the line laser on the tripod or wall mount during operation. For attachement use thread 1/4" at the bottom part of the instrument or thread 5/8" at the bootom part of the rotating base.

6 LOCK SWITCH

Lock switch has tree positions:
1. OFF mode Power is OFF. Pendulum is locked. Button panel can not be used.
2. Tilt mode. Power is ON. Pendulum is locked. Button panel can be used. Vertical lines and horizontal line can be switched on/off.
3. ON mode.Power is on. Pendulum is unlocked. Self-leveling. Button panel can be used. Vertical lines and horizontal line can be switched on/off. Detector mode.

POWER WARNING

Power LED flashes when the power is full. Maximum operating time with all laser beams is about 30 min. All laser beams and LED will be shut off when the power is very low. Please use the standard charger to charge the instrument.

CHARGER LED

The LED of the charger will be yellow when it's charging. When power is full, the indicator changes into green light. The Charger should be 5V 1A . The instrument can be used while charging.

TILT MODE WARNING

The line laser can work in the tilt mode (intermediate position of lock switch). Tilt LED flashes. Pendulum is locked. Laser lines are projected at any angle. For example, when making stairs.

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DETECTOR MODE

Use the detector mode in bright light when laser beam is not visible. Press button to switch on the dector mode. Upper LED flashes. Place the detector to the the place of beam location. Follow the instruction of detector usage when searching the beam.

OUT OF LEVELING WARNING

All the laser beams will be shut off when the line laser is out of leveling range. The buzzer will alarm at the same time.

TRANSPORTATION

Please turn the lock switch in OFF mode. Please put the line laser on the correct position in soft bag or case. Dot not drop it during transportation.

7 ROTATING BASE

360 °rotating. Part A can rotate around part B by 360°.
±10° fine adjustment. In leveling mode, by using adjusting knob , the instrument can rotatearound the down dot by ± 10°.

APPLICATION OF THE DETECTOR

This line laser 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 line laser 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.

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8 TO CHECK THE ACCURACY OF LINE LASER (SLOPE OF PLANE)

Place line laser on the tripod 5m away from the wall so the horizontal laser line will be directed to the wall. Switch on the power. The line laser starts to self-level. Mark point A on the wall to show the contact of laser beam with the wall. Turn the line laser by 90° and mark points B, C, D on the wall. Measure distance "h" between the highest and lowest points (these are A and D points in the picture).If "h"is ≤ 6 mm, the measurement accuracy is good. If "h" exceeds 6 mm, apply service center.

TO CHECK PLUMB

Choose a wall and set laser 5 m 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. ±3 mm/10 m). If the accuracy isn't corresponding with claimed accuracy, contact the authorized service center.

PRODUCT LIFE

Product life of the tool is 7 years. The battery and the tool should never be placed in municipal waste. Date of production, manufacturer's contact information, country of origin are indicated on the product sticker.

CARE AND CLEANING

Please handle line laser 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.

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SPECIFIC REASONS FOR ERRONEOUS MEASURING RESULTS

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

9 LASER CLASS 2 WARNING LABELS ON THE LASER INSTRUMENT

LASER CLASSIFICATION

The instrument is a laser class 2 laser product accortding to DIN IEC 60825-1:2014. It is allowed to use unit without further safety precautions.
Note: Because of construction of laser emitter laser beam may be unhomogeneous and has different intensity of brightness along the perimeter in different light conditions. Unhomogeneous of laser beam: laser patch of light but the center of laser beam is identified. Different laser beam brightness: difference of intensity is up to 50%.

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.

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- 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 of 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

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product. The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits caused by usage other thsn 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 wil 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 nrgligence 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, it's transportation and storing, warranty doesn't resume.

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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 explotation 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 thr 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 qarranty 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

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INSTRUMENTS

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Made In China

adainstruments.com

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