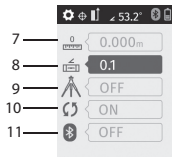
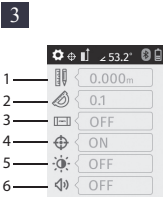
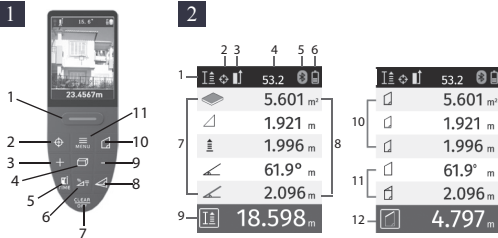


Operating manual
Laser distance meter
ADA COSMO 120 video



Manufacturer: ADAINSTRUMENTS

Address: WWW.ADAINSTRUMENTS.COM



Congratulations on the purchase of laser distance meter ADA COSMO 120 Video!

Permitted use

- Measuring distances
- Computing functions, e.g. areas, volumes, subtractions, trapezoid, Pythagorean calculation, measurements with the tilt sensor.

The safety regulations and instructions along with the operating manual should be read carefully before initial operation. The person responsible for the instrument must ensure that equipment is used in accordance with the instructions. This person is also accountable for the deployment of personnel and for their training and for the safety of the equipment when in use.

Safety instructions Prohibited use

Please follow up instructions given in operating manual. Do not use instrument in explosive environment (filling station, gas equipment, chemical production and so on).

Do not remove warning labels or safety instructions.
Do not open instrument housing, do not change it's construction or modification.
Do not stare at beam. Laser beam can lead to eye injury (even from greater distances).
Do not aim laser beam at persons or animals.
Opening of the equipment by using tools (screwdrivers, etc.), as far as not specifically permitted for certain cases.
Inadequate safety precautions at the surveying site (e.g. when measuring on the roads, construction sites and so on).
Use the instrument in the places where it could be dangerous: on the air transport, near manufacturers, production facilities, in the places where the work of laser distance meter can lead to the harmful effects on people or animals.

Keypad 1

1. ON / Measuring
2. Digital Camera Button
3. Addition
4. Area / Volume
5. Reference / Time

6. Angle / Stake out function
7. Clear / OFF
8. Indirect measurements
9. Substraction
10. Trapezoid
11. Menu / Equal Button

Display 2

The graphics screen of the measurement window is split into different areas. The selected measuring function is shown at the left top part. The measurement field contains the previous measurement results. There are 5 rows on the display.

1. Current measurement function
2. Indicator of laser point
3. Indicator of selected reference point
4. Digital level
5. Indicator of Bluetooth
6. Battery power
7. Previous measurement
8. Result of previous measurement
9. Current measurement function and result
10. Function and the results of successive measurements

11. Additional calculations



12. Main result

Display in Digital Camera mode (3x magnification)

Built-in digital camera shows the target directly on the display.

The instrument takes measurements with the help of crosshairs, even if the laser dot is not visible (in bright illumination).

3x magnification. Press the key to activate the magnification function. Press the key again to magnificate the image in one, two or three times.

The brightness of the display can be adjusted with  and  buttons.

When the digital camera is used for close targets (<10m) the laser dot may not coincide with the image in the center of the display. In this case you should rely on the actual laser dot for targeting the object.

Inserting / Replacing Batteries

Remove the battery compartment lid.

Insert the batteries. Pay attention to the polarity.

Close the battery compartment.

The batteries should be replaced, when the battery voltage is too low.

Batteries should be removed if the device will not be used for a long time (danger of corrosion).

Use alkaline or Li-batteries.

NOTE:

We recommend to use LI /IRON Batteries (energy-plus battery). Approximate time of continuous operation*:

- LI / IRON (4 000 mAh) - about 5 hours
- NiMh (2 000 mAh) - about 3.5 hours

*in condition of operation under environment temperature 20°C and also average values of instrument settings (brightness, contrast and so on).

Laser classification

The instrument is a laser class 2 laser product with power < 1 mW and wavelength 635 nm. Laser is safety in ordinary conditions of usage.

End-piece

Fold out the end-piece (180°) to measure from the edge of the positioning bracket.

Push the positioning bracket slightly to the right (90°) to measure from the corner or the edge of the object. The sensor automatically detects the orientation of the positioning bracket and adjusts the zero point of the instrument accordingly.

Adjustment functions 3

1. Current measurement (distance)
2. Unit of measurement (corner)
3. Digital level
4. Continuous laser
5. Brightness of the display
6. Sound alarm
7. Offset of reference point
8. Calibration of tilt sensor
9. Tripod
10. Factory reset
11. Bluetooth

Measurement

Press button (1) to switch laser on. In the continuous mode press this button once again to start measurement.

Press button (1) once again to start measurement. The result is shown on the display.

See information about other functions and possibilities in the operating manual on accompanying CD.

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 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 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.

For more information you can visit our website WWW.ADAINSTRUMENTS.COM
or write the letter with your questions on info@adainstruments.com