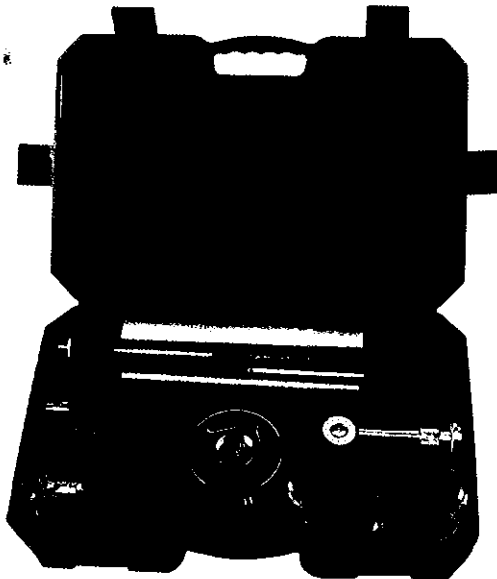


NO.3097

MANUAL INSTRUCTION



You can purchase additional items at www.cumminstools.com.

Laser Rotary Level

1.This instrument can be used on the ground, platform and desk

- (1)Set up instrument on a suitable height plane. Regulate(turn)the adjusting screw to make the leveling bubble on the upper platform seat be at the center;
- (2)Make Light press on the button to switch on and the instrument emits a level light beam to reach the desired position;
- (3)Press the button the second time, then the instrument make a swivel of up to 360° in a plane at 300rpm/min speed ,Press the button the third time, the light beam can turn at a speed of 900rpm/min,and form a round light beam line on the object of reference;
- (4)Press the button the fourth time to switch off.

2.Use of Wall Mount

- (1)When installing large suspended ceilings, for example, the wall mount can be temporarily positioned on the reference wall. The rotary laser is fixed on the wall mount below the level of the ceiling. Regulate(turn)the height adjusting screw to put the laser rotary level to desired height.
- (2)The instrument can be fixed on bottom or side of the wall mount to make laser beam turn round or vertical plane.

3.A tripod can be used by connecting to the base of the instrument.

- (1)Take out and open the tripod, put the legs to desired height and fasten the locker screw, then connect the 5/8" screw on the bottom of the rotary level with link screw at the tripod.
- (2)Regulate the adjusting screw to level the bubbles .
- (3)Turn the power switch clockwise and make swiveling head rotate, then you can see the horizontal light form a plane of light.
- (4)If needing to emit vertical reference line, the wall mount should be fixed on the base of the tripod by using 5/8" screw, then using the 5/8" screw to make the rotary laser level be fixed on the wall mount, regulate the adjusting screw to make the vertical bubble be at the center, turn the power to make the swiveling head rotate ,then a vertical light will be emitted from the rotary laser level.

Maintenance

A.Laser Universal Survey Instrument

1. The instrument is equipped with 2 AA batteries, if it is left unused for a long period of time, you'd better remove the batteries from the case to prevent corrosion caused by the leakage of the battery electrolyte.
2. if the brightness of the laser (light) darkens evidently during operation, it shows that the batteries have become defecient and should be replaced with new ones.
3. Whenever the instrument is dam aged or broken, send it to our appointed service center or our company for repairing. Please do not dismount or disassemble it by yourself or other nonprofessional

Brief Introduction

The instrument include univers Laser servey Instrument and Laser Rotary Level Laser universal survey Instrument. This is a new type of optical-mechanical electric integrated instrument which can emit a beam of laser to form a spot or a beam of lingt onto any surface area.

Laser Rotary Level by using the wall mount and extension tripod the beam can swivel by 360°

The instrument can handle many jobs;in building,indoor decorations, top work of structure, setting-up of doors and windows, partition(building walls),outdoor survey, etc. It is a portable and multiple-purpose instrument.

Main parameters

1) Laser universal survey Instrument

1 Accuracy of leveling bubble	3' /2mm
2 Accuracy of beam level	± 5mm/10m, ± 3/16"/33'
3 Wavelength of laser	650nm
4 Power output	<5mw
5 Distance Shone	≤25m, 82-1/2'
6 Working temperature	-5°C~+4°C
7 working time at a stretch	≤5h
8 working voltage	4.5v

2) Laser Rotary Level

1 Laser wavelength	635nm
2 Accuracy of vial	3' /2mm 6' /2mm 30' /2mm
3 Leveling accuracy	± 5mm/10m ± 3/16"/33'
4 Beam distance	≤25m
5 Luminous power	≤5mw
6 Speed of rotation	<0-460r/s
7 Voltage	6v

Name of important parts and components

1) Laser universal survey Instrument

- 1 Principal part of instrument
- 2 Power switch
- 3 Cell case

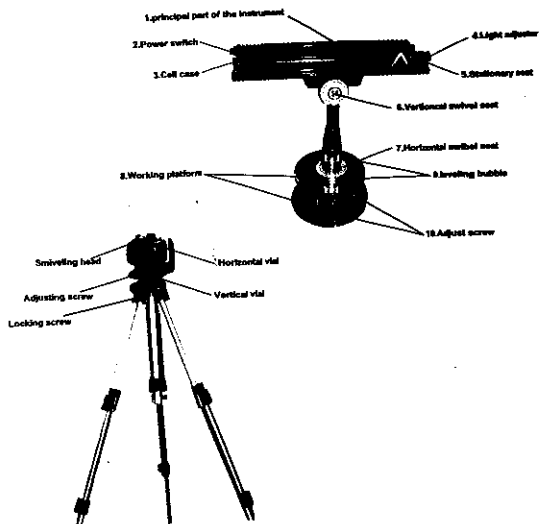
B.Laser Rotary Level

- 1.4-AA batteries are used for this instrument .If the instrument is left unused(lies idle) for a long period ,you'd better remove the batteries from the case to prevent it from corrosion caused by the leakage of the battery electrolyte.
- 2.If the brightness of the laser(light)darkens evidently during operation,it shows that the batteries become deficient and should be replaced with new ones.
- 3.For the sake of safety, it is prohibited to look at the laser ray by naked eyes or through optical instrument.
- 4.Don't direct point the laser ray against people.
- 5.Whenever the instrument is damaged or broken,send it to our appointed service center or our company for repairing.Please do not dismount or disassemble it yourself or other nonprofessionals.

Packing list

- 1.Principal part of laser universal survey instrument
- 2.Principal part of laser rotary level
- 3.working platform
- 4.vertical shaft
- 5.light adjuster
- 6.protect goggle
- 7.Aluminum Tripod
- 8.6-AA batteries
- 9.Wall mount
- 10.Manual instruction
- 11.Blow molding box

- 4 Light adjuster
- 5 Stationary seat
- 6 Vertical swiveling seat
- 7 Horizontal swiveling seat
- 8 Working platform
- 9 Leveling bubble
- 10 Adjust screw



Operation

A. Laser universal survey Instrument

Set up the instrument on the service area or on a lamp stand.

Regulate (turn) the adjusting screw to make the leveling bubble on the upper Platform seat be at the center. Switch on the instrument and loosen the screw on

The backside of the vertical swivel seat. Then the instrument can make a swivel

Of up to 360° (in a vertical plane), turning to the desired working position. Fasten the screw

Then the horizontal rotation of the instrument can be achieved by turning the swivel

set up the light swiveling seat, which can rotate by 360°

(around the stationary seat) and make the light reach the right position in a 3 dimensional

space.

