

WITH 2 PLUMB BEAMS



Pulse Mode Button

(Vertical Beam Aperture)

(Horizontal Beam Aperture)-

OFF Position

LOCK Position

ON Position

1/4" Tripod Mount (located bottom)



—Magnets (located back)

5/8" Tripod Mount (located bottom)

-1/4" Tripod Mount (located bottom)

- Magnets (located bottom)

Strap Raceway

Strap Raceway



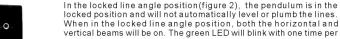
AVOID EXPOSURE: Laser radiation is emitted from this product. Use of controls adjustments or procedures other than those specified herein may result in laser radiation exposure. Never stare directly into beam or view directly with optical instrument.

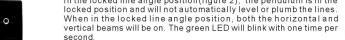
This symbol is attached to the LT40 at the laser aperture.

IMPORTANT: "DANGER" labels are attached to every LT40. They are not to be

removed or defaced. tomatic leveling mode Do not disassemble or attempt to perform any internal services. Doing so will void the

warranty. Repairs or service to this device are to be performed by authorized service Locked Line Angle centers only. Do not aim the laser beams in LT40 at others. LT40 contains semiconductor laser diodes with wavelengths of 635-650 nanometers. The total continuous output of the beams







stipulated in FN60825 - 1/1994





never exceeds 4.99 milliwatts. LT40 complies with US CDRH

performance standards, 21 CFR, Subchapter J, and the regulations

device is out of level over 3 minutes, it will be shut off automatically. The Note: Alkaline batteries offer the longest battery life when red LED will blink and laser beams will be turned off. To restart the used in this device. Without other instruction, the external device, the pendulum lock should be pushed to off position and start power socket just can work with external DC 4.5V power again(in continuous working mode the device will not be shut off ausupply instead of recharger. This device can not use rech-

Pendulum Lock

Line Mode while in the locked angle position.

Automatic Leveling

The LT40 is a precision instrument and should be treated with care. When not in use, the pendulum should always be in Off position (figure 1). Locking the pendulum allows the LT40 to better withstand vibration and trauma incurred during transportation or if the unit is dropped.

The LT40 can be used in either the locked line angle position or au-

Note: The unit cannot change between Level Line Mode and Plumb

When the pendulum is unlocked (figure 3), the pendulum is free to

automatically level or plumb. In order for the LT40 to automatically

level, the base of the unit needs to be within 5 degrees of level. When

go on. When the base of the unit is 5 degrees or more out of level, the

laser beams and the red LED will blink with one time per second. If the

the pendulum is unlocked and the LT40 is within 5 degrees of Oh IA

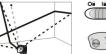
level the unit will be within self-leveling range and the green LED will





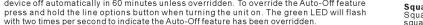


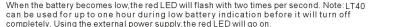
Auto-Off Feature





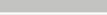
A battery saving Auto-Off feature has been incorporated into LT40, which will shut the device off automatically in 60 minutes unless overridden. To override the Auto-Off feature

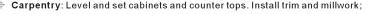






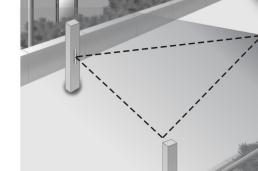






- Stair layout: Level and plumb decks; plumb framing and partition walls; plumb window and door frames.
 - Concrete: Set forms and footings.
- Electrical: Level electrical outlets; transfer lighting layout from floor to ceiling.
- Use this threaded hole, located on the bottom of the universal mount, to mount the universal Plumbing: Layout piping, sewer lines, drainage and feed lines; transfer sprinkler system layout from floor to ceiling.





With laser detector, LT40 can work outdoors or at a larger indoor range.

Level, Plumb and Cross Line Options

The LT40 has three line options, accessible by the line options button located on the top of the instrument. If the unit has been turned on, the plumb top and down beams will always be on. Use the line options button to cycle through the level (horizontal), plumb (vertical) o cross line modes, as shown below.

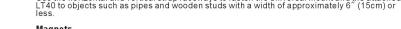


oss Line Mode (auto level) Cross Line Mode (locked line)









Screw / Nail Attachment Hole

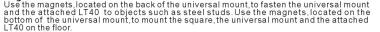
1/4" × 20 Tripod Mount

5/8" × 11 Tripod Mount

mount and the attached LT40 to a camera tripod.

with drywall screw of at least 2" (5cm) long.

mount and the attached LT40 to a surveyor's tripod.



LT40 comes with a multi- purpose universal mount that allows the unit to be attached

Use this threaded hole, located on the bottom of the universal mount, to mount the universal

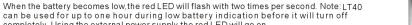
Use the attachment hole to fasten the universal mount and the attached LT40 to walls

Use the horizontal and vertical strap raceways to fasten the universal mount and the attached

o multiple surfaces including wood, metal, pipes, construction tripods, camera tripods and



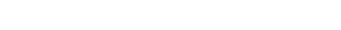
Low Battery Indicator



To press pulse mode button, the device will enter into pulse working mode and can work with optional laser detector outdoors. To press the button again, reenter into the indoor mode. In pulse mode, the pulse LED will go on.











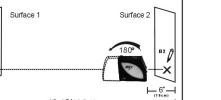
Use the laser offset information provided in the illustration to speed plumbing and leveling

Turn on the LT40 to the "auto level" setting. With the laser 6 inches (15cm) away from and facing Surface #1, carefully mark the center of the line where the lines cross. Label this mark "A1"

Swivel the laser 180 degrees and mark the center of the line where the lines cross on Surface#2, Label this mark "B1" (figure 1).

Now move the laser 6 inches (15cm) away from and facing Surface #2 (figure 2). Carefully mark the center of the line where the lines cross, Label this mark "B2" (figure 2).

Figure 2



It is recommended that you check your LT40 periodically to assure its accuracy.

To check level:

Laser Offsets

Choose two walls approximately 12-15 feet (4-5 meters) apart (figure 1)

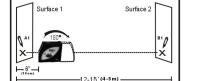
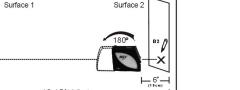


Figure 1



the beam falls at point "D". If it is within a light 1/6" (16mm) of point "D", the laser is in Swivel the laser 180 degrees and mark the center of the line where the lines cross on Surface #1(figure2), Label this mark "A2",

Next, measure the distance between "A1" and "A2" and between "B1" and "B2". Note: If level and plumb are within specification, square will be in specification. the distances are the same, the laser is in calibration. If the difference between the two sets For more information on calibration contact the distributors or service center. of marks is greater than 1/8" (3,17mm) the laser is out of calibration.

For more information on calibration, contact the distributors or service center.





±3mm @ 10m

30m indoors

Out-of-level Indication: Blinking laser lines and audible alarm

Plumb beams: ±1.5mm@5m



allow the user to enjoy this product for many years.

damage batteries, and warp or melt certain plastics.

Keep it and all its parts and accessories out of small childrens' reach.

When using the device:

should always be dried off before storage.

This device is a product of superior design and manufacture and should be treated with

The LT40 is built to be operated under wet conditions (IEC 529: IP 54), however the unit

Do not store it hot areas. High temperatures can shorten the life of electronic devices.

Do not store it in cold areas. When the device warms up to its normal operating temperatur

care. The suggestions below will help the userfulfill any warranty obligations and also





Sokkia Europe warrants for a period of one(1) calendar year from the date of purchase that its

product are free of defect in material and workmanship, and conform to Sokkia Europe's

This warranty is void and does not apply if the product has been damaged by accident abuse

Sokkia Europe will, at its option and expense, repair or replace any products found to be

do not allow limitations on how long an implied warranty lasts, so the above limitation may not

NOT EXCEED THE PRICE PAID FOR THE GOODS LIPON WHICH SUCH LIABILITY IS BASED.

Should you experience problems with the conduct that are not addressed by this user guide



We hereby declare that these products:

Corresponds with the following standards or normative documents:

EN55022:1998+A1:2000+A2:2003. FN61000-3-2/-3:FN 60825-1/1994

(EN61000-4-2/-3/-4/-5/-6/-11)

EN60825-1:1994+A1+A2+CORIG

And in accordance with the regulations stipulated in directive 89/336/EEC and amended directive 92/31/EEC.

CE & FDA

Complies with US CDRH Performance Standards, 21 CFR, Subchapter J.

Complies with the RoHs Directire.

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EXCEPT AS EXPRESSLY SET FORTH ABOVE. SOKKIA EUROPE MAKES NO WARRANTIES. Web:www.sokkia.net

Although LT40 is dust and dirt resistant, do not store in dusty, dirty areas as long-term exposure to these elements may damage internal moving parts.

Do not attempt to open it. Non-expert handling of the device may damage it and will void the

a soft cloth, slightly dampened in a mild soap-and water solution. or consequential damages, so the above limitation or exclusion may not apply to you.

dipped in isopropyl alcohol.

misuse, normal wear and tear, or if the product has been modified, altered, or the case opened. Sokkia B.V. European Head Office or is repaired by anyone other than Sokkia Europe or its authorized repair center(s). Damsluisweg 1

defective under the above warranty. Repairs and replacement units may contain new and/or reconditioned components.

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published technical specifications under normal operating conditions.

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The foregoing limitations will apply even if any warranty or remedy provided under this Agreement Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with fails of its essential purpose. Some jurisdictions do not allow the exclusion or limitation of incidental

Keep the laser aperture windows clean by periodically wiping them with a cotton swab

Universal mount

Square

→ User guide

⊕ 3 "AA" batteries

+ Pouch



Choose a door jamb with a minimum of 8 feet (2.5 meters) clearance on each side of the

Self-leveling Range: + Operating Range:

+ Fan Angle:

+ Unit Weight:

+ Laser Diode:

 Unit Tripod Mount: 1/4 "x20 camera tripod Protects pendulum during transportation and storage for added durability.

working with laser detector R40.

140° vertical and 130° horizontal

Outdoor Mode.....Up to 50m outdoors.

Unit Dimensions: 110mm x 57mm x 97mm

Universal Mount Dimensions: 89mm x 57mm x 46mm

Universal Mount Weight: 200g

♦ Operating Temperature: -10°C ∽+50°C

635nm diodes Power Supply: 3 "AA " batteries

Operating time: 12 hours continuous use(2 lines on)

Specifications subject to change without notice

To check plumb:

above Mark this point "B".

door. Turn on the LT40 to "auto level" setting.

With your laser at point "A" (figure 3), make two marks on the floor.

Make a second mark 16 feet (5 meters) from point "A". Make this point "C"

Without moving the laser, make a third mark on the door header. Make this point "D"

Make the first mark at 8 feet (2.5 meters) from point "A" centered on the door header

Now move the laser to point "C" FXACTLY align the beam with point "B" Notice where

EN55024:1998+A1:2001+A2:2003.

Type Approval: EN61010-1:2001+CORRIG.1+2

FDA Accession Number: 0510834-03