

# ACCULINE<sup>™</sup>

LASER LEVELS

## PRO<sup>™</sup>

### **Self-Leveling 3-Line Laser Level** **Model Nos. 40-6600 and 40-6610**



## **Instruction Manual**

*Congratulations on your choice of this Self-Leveling 3-Line Laser Level. We suggest you read this instruction manual thoroughly before using the instrument. Save this instruction manual for future use.*

This tool emits one laser cross and one vertical line at 90°. The tool features quick damping, visual and audible out of range indication, and a synchronized power-off/pendulum-locking design. Beam visibility depends upon lighting conditions in the work area.

This is a Class II laser tool and is manufactured to comply with CFR 21, parts 1040 .10 and 1040 .11 as well as international safety rule IEC 285.

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## 1. Kit Contents

### *For Model No. 40-6600*

<b>Description</b>	<b>Qty.</b>
Self-Leveling 3-Line Laser Level	1
Tripod/Wall Mount Bracket	1
“AA” Alkaline Batteries	3
Tinted Goggles	1
Magnetic Target	1
Instruction Manual with Warranty Card	1
Soft Sided Carrying Case	1

### *For Model No. 40-6610*

<b>Description</b>	<b>Qty.</b>
Self-Leveling 3-Line Laser Level	1
Tripod/Wall Mount Bracket	1
“AA” Alkaline Batteries	3
Tinted Goggles	1
Magnetic Target	1
Laser Pole with Carrying Case	1
Instruction Manual with Warranty Card	1
Soft Sided Carrying Case	1

## 2. Features and Functions

- Able to project one cross laser, and one vertical line at 90 degrees.
- Magnetic dampening compensation system.
- Laser flashes and audible alarm when product is beyond leveling range.
- Low voltage indication with power indication lamp flashing.
- Scaled wall bracket is also available for operation on the tripod.
- Convenient rotatable base is available for both powering-on / powering-off the unit and releasing / locking compensation system.

## 3. Safety Instructions

Please read and understand all of the following instructions, prior to using this tool. Failure to do so, may result in bodily injury.

**CAUTION:** If using this product with any type of tinted goggles, please note safety warning below.

### **CAUTION!**

Class II Laser Product  
Max. Power Output:  $\leq 1\text{mW}$   
Wavelength: 625-645nm

**THIS TOOL EMITS LASER RADIATION.  
DO NOT STARE INTO BEAM.  
AVOID DIRECT EYE EXPOSURE.**



**ATTENTION****IMPORTANT**

- Read all instructions prior to operating this laser tool. Do not remove any labels from tool.
- Use of controls or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Do not stare directly at the laser beam.
- Do not project the laser beam directly into the eyes of others.
- Do not set up laser tool at eye level or operate the tool near a reflective surface as the laser beam could be projected into your eyes or into the eyes of others.
- Do not place the laser tool in a manner that may cause someone to unintentionally look into the laser beam. Serious eye injury may result.
- Do not operate the tool in explosive environments, i.e. in the presence of gases or flammable liquids.
- Keep the laser tool out of the reach of children and other untrained persons.
- Do not attempt to view the laser beam through optical tools such as telescopes as serious eye injury may result.
- Always turn the laser tool off when not in use or left unattended for a period of time.
- Remove the batteries when storing the tool for an extended time (more than 3 months) to avoid damage to the tool should the batteries deteriorate.
- Do not attempt to repair or disassemble the laser tool. If unqualified persons attempt to repair this tool, serious injury may result.
- Use only original AccuLine Pro™ parts and accessories purchased from your AccuLine Pro authorized dealer. Use of non-AccuLine Pro parts and accessories will void warranty.

**WARNING!**

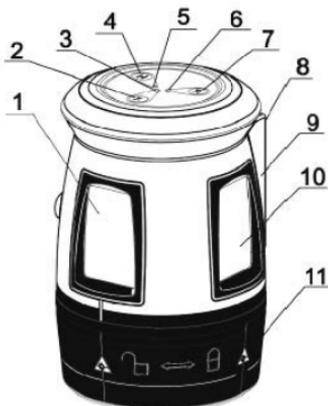
The tinted goggles are designed to enhance the visibility of the laser beam. They **DO NOT** offer protection to the eyes from direct exposure of the laser beam.



## 4. Location/Content of Warning Labels



## 5. Location of Part/Components



1. Front Laser Emitting Window
2. Front Vertical-beam Button V1
3. Front Vertical-beam Indicator Lamp
4. Front Horizontal-beam Side Button H
5. Front Horizontal-beam Indicator Lamp
6. Side Vertical-beam Indicator Lamp
7. Side Vertical-beam Button V2
8. Battery cover
9. Battery compartment
10. Side Laser Emitting Window
11. On/Off – pendulum locking base

## 6. Operating Instructions

**IMPORTANT:** It is the responsibility of the user to verify the calibration of the instrument before each use.

### Battery Installation

**Note:** Always check to be sure that the on/off switch is in the off position before removing and replacing batteries.

1. Open the battery compartment and put in 3 “AA” batteries.  
Please pay attention to polarity.

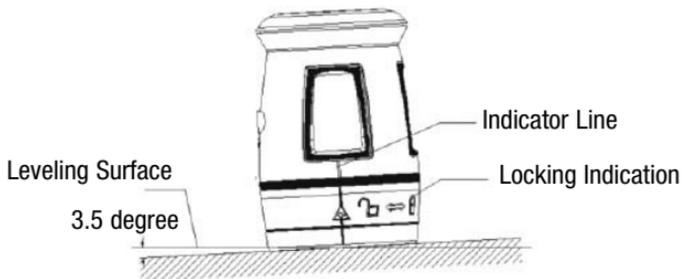
**Note:**

- The battery should be replaced with new ones once any indicators lamp flashes while in use. The flashing lamp indicates low voltage.
  - Do not charge alkaline batteries to avoid explosion.
  - Used (discharged) batteries are hazardous waste and should be disposed of properly.
2. Rotate the base to unlock the unit. Switch on horizontal-beam by button H. Then its indicator lamp is illuminated and a horizontal laser beam is emitted.
  3. Switch on front vertical-beam by button V1. Then its indication lamp is illuminated and front vertical beam is emitted.
  4. Switch on side vertical-beam by button V2. Then its indicator lamp is illuminated, and the side vertical beam is emitted.

## 7. Using the Product

### Unlocking

1. The unit should be in locked state when it is not in use. Unlock the unit by rotating the base clockwise (according to indicated direction shown on the unit) to set it to unlocked position when you start to use it. Then you can move the unit slightly to observe through window whether the internal mechanical system is moving. The unit can be locked by rotating base in opposite direction.



2. Place the unit on a relatively level surface like a table, floor, etc during operation.
3. The surface should be as level as possible. If its tilt is beyond  $3.5^\circ$ , the self-leveling system will become ineffective.
4. Unlock the unit and position it on a surface. If the laser beam flashes with audible alarm, this indicates that the unit is beyond its self-leveling range. Please reposition the unit until no beam flashing and audible alarms occur.
5. Return the unit to its locked position and put it in carrying case while it is not in use. This avoids accidental damage during transport or storage.

**Note:** Check whether the unit is in locked position before it is put into carrying case. If not, during movement the unit will give an alarm as reminder, with automatic laser beam flashing at the same time.

### Tripod/Wall Mount Bracket

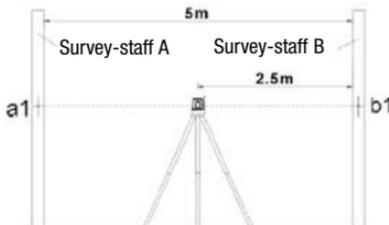
1. The tripod/wall mount bracket can be used at any position and height.
2. There are three screw eyes on the holder, through which you can fix the holder on the wall by three screws of 0.157" - 0.197" (4-5mm) diameter.
3. The holder can also be connected with elevating staff or tripod by its bottom thread.
4. The holder can also be positioned on any level surface.
5. The holder must be tilted less than 3.5°.



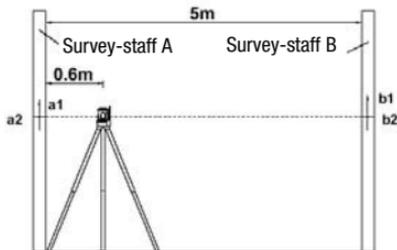
## 8. Self-Check and Calibration

### Horizontal Accuracy Self-Check

1. Set up two survey-staffs that are 16 ft. (5m) away from each other.
2. Set the bracket on the tripod or elevating pole, put the unit into the bracket, and then place the setup at the center between the two survey-staffs.
3. Switch on front horizontal beam button H and front vertical beam button V1. Have their cross located on staff A and note down the value of a1.



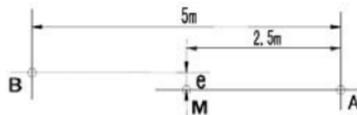
4. Turn the unit 180°, have the cross located on staff B and note the value of b1.
5. Move the tripod to change the distance between the unit and staff A to 2 ft. (0.6m).
6. Repeat steps c, d and note down a2, b2.
7. Calculate:  
 $(a1-a2)-(b1-b2)=e$



**Note:** If  $e > 0.047''$  (1.2mm), the unit accuracy is beyond tolerance, reference section 12 of this document.

### Horizontal Line Accuracy Self-Check

1. Find a wall and set up the unit at 16 ft. (5m) away from the wall.
2. Set the bracket on the tripod or elevating pole, and put the unit into the bracket and orient it at the wall.
3. Switch on front horizontal beam button H and front vertical beam button V1, and take the cross on the wall as point A.
4. Mark out point B and point M on the horizontal line, and the distance between the two points is about 8 ft. (2.5m).
5. Turn the unit to move the cross to point B that is 16 ft. (5m) away from point A.
6. Measure the distance e between point M and the horizontal line.

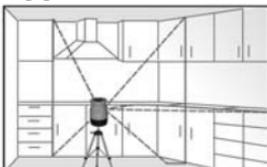


**Note:** If  $e > 0.118''$  (3mm), the unit accuracy is beyond tolerance, reference section 12 of this document.

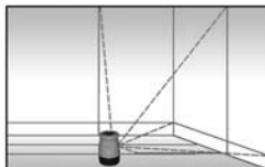
## 9. Technical Specifications

Laser Wavelength	635nm $\pm$ 10nm
Laser Classification	Class II
Maximum Output	<1mW
Horizontal Accuracy	$\pm$ 3/8"/100 ft. ( $\pm$ 3mm/10m)
Vertical Accuracy	$\pm$ 3/8"/100 ft. ( $\pm$ 3mm/10m)
Working Range	Maximum 100 ft. (30m) depending upon light conditions
Self-leveling Range	$\pm$ 3.5 $^\circ$
Power Supply	3 "AA" Alkaline Batteries
Dimensions	3-3/8" x 5-3/8" (86 x 137mm)
Weight	3.07 lbs. (1.39 Kg)
Working Temperature	14 $^\circ$ F to 113 $^\circ$ F (-10 $^\circ$ C to 45 $^\circ$ C)
Center Screw Thread	5/8" – 11

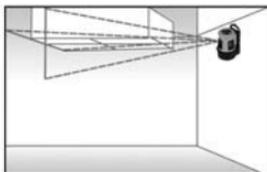
## 10. Application Demonstrations



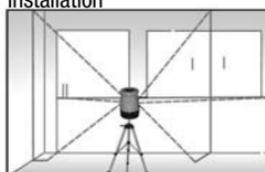
Reference for installing cabinets



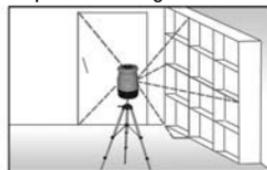
Plumb reference for baseboard installation



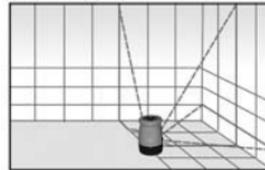
Reference for installing suspended ceilings



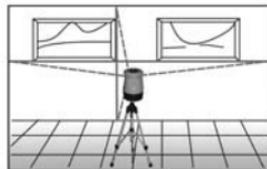
Reference for installing doors and windows



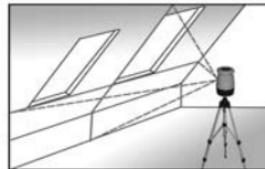
Reference for installing partitions



Reference for laying tile



Reference for hanging pictures



Reference for dormer installation

## 11. Care and Handling

- This laser unit is a precision tool that must be handled with care.
- Avoid exposing unit to shock vibrations and extreme temperatures.
- Before moving or transporting the unit, make sure that the unit is turned off and in the locked position. Failure to lock before transport or storage may cause damage to the units inner mechanism and void warranty.
- Remove the batteries when storing the unit for an extended time (more than three months) to avoid damage to the unit should the batteries deteriorate.
- Always store the unit in its case when not in use.
- Avoid getting the unit wet.
- Keep the laser unit dry and clean, especially the laser output window. Remove any moisture or dirt with a soft, dry cloth.
- Do not use harsh chemicals, strong detergents or cleaning solvents to clean the laser unit.

## 12. Product Warranty

Johnson Level & Tool offers a one year limited warranty on each its products. You can obtain a copy of the limited warranty for a Johnson Level & Tool product by contacting Johnson Level & Tool's Customer Service Department as provided below or by visiting us online at [www.johnsonlevel.com](http://www.johnsonlevel.com). The limited warranty for each product contains various limitations and exclusions.

Do not return this product to the store/retailer or place of purchase. Required repair/calibration must be done by an authorized AccuLine Pro™ service center or Johnson Level & Tool's limited warranty, if applicable, will be void and there will be NO WARRANTY. Contact our

Customer Service Department to obtain a Return Material Authorization (RMA) number for return to an authorized service center. Proof of purchase is required.

**NOTE:** The user is responsible for the proper use and care of the product.

It is the responsibility of the user to verify the calibration of the instrument before each use.

For further assistance, or if you experience problems with this product that are not addressed in this instruction manual, please contact our Customer Service Department.

In the U.S., contact Johnson Level & Tool's Customer Service Department at 800-563-8553.

In Canada, contact Johnson Level & Tool's Customer Service Department at 800-346-6682.

### 13. Product Registration

Enclosed with this instruction manual you will find a warranty card to be completed for product warranty registration. Product warranty registration can also be completed online at our web site [www.johnsonlevel.com](http://www.johnsonlevel.com). You will need to locate the serial number for your product that is located on the bottom of the unit. **PLEASE NOTE THAT IN ADDITION TO ANY OTHER LIMITATIONS OR CONDITIONS OF JOHNSON LEVEL & TOOL'S LIMITED WARRANTY, JOHNSON LEVEL & TOOL MUST HAVE RECEIVED YOUR PROPERLY COMPLETED WARRANTY CARD WITHIN 30 DAYS OF YOUR PURCHASE OF THE PRODUCT OR ANY LIMITED WARRANTY THAT MAY APPLY SHALL NOT APPLY AND THERE SHALL BE NO WARRANTY.**

## 14. Accessories

AccuLine Pro™ accessories are available for purchase through authorized AccuLine Pro dealers. Use of non-AccuLine Pro accessories will void any applicable limited warranty and there will be **NO WARRANTY**. If you need any assistance in locating any accessories, please contact our Customer Service Department.

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