# **PRO SHOT**<sub>TM</sub> **Alpha-v Vertical plumb laser** Operations Guide

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## **Operating the Alpha-v**

The Alpha-v is very straight forward to operate. Press the power button to begin the self-leveling process. The green L.E.D.s turn on when the leveling system is active: Constant lights indicate the laser is coarse leveling, flashing lights indicate the laser is almost level. Once the laser is level, the vertical and plumb laser beams come on, the power indicator L.E.D.s come on and the leveling L.E.D.s turn off. If the laser cannot reach level, red L.E.D.s will flash. This indicates the laser setup must be made closer to level (within  $\pm 5^{\circ}$ ) in order for the laser to operate. About

five seconds after the laser finishes leveling, a feature called "Height of Instrument alert" (H.I. alert) activates. When the laser enters H.I. alert mode, the top leveling indicator will flash slowly five times. Once H.I. alert is active, if the laser is moved or bumped, the laser beam will shut-off and the red and green leveling indicator L.E.D.s will flash alternately. This provides a warning to re-check your setup before proceeding and prevents errors that could occur if the laser was simply allowed to re-level. To clear an H.I. alert, simply turn the laser off, then on again. CAUTION: You must re-check your setup before continuing your work to avoid errors.

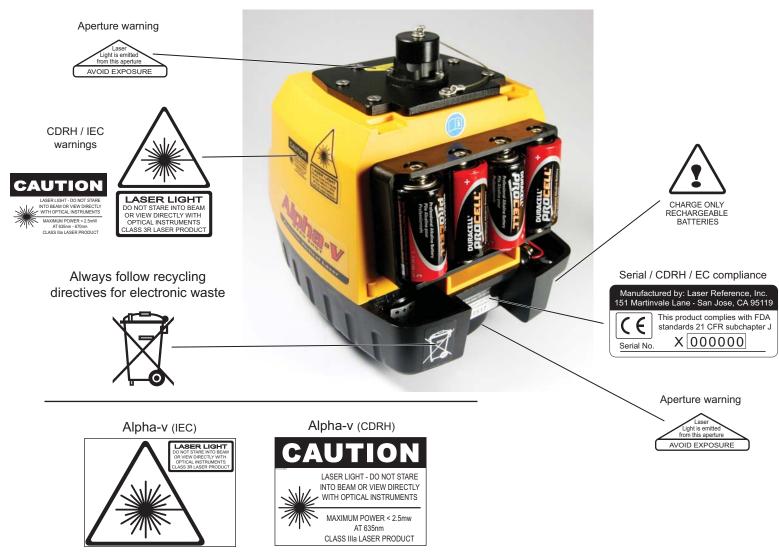
Once the laser is operating, pressing the down beam mode button will make the down beam flash to conserve battery life, but still allow for checking setup alignment. Pressing the button a second time will turn the down beam off for even more battery life and pressing it a third time will turn the beam on constant again.



## Specifications

Measurement range up	330 feet (100 meters)
Measurement range down	16 feet (5 meters)
Beam accuracy up	±5 arc sec.
Beam accuracy down	±1 arc min.
Self-Leveling Range	±4 Degrees · servo motor leveled
Power Supply	Four C-cell Alkaline batteries
Run time: down beam on	65 hrs. (continuous)
down beam flashing	100 hrs. (continuous)
Automatic Shut-off	If off-level for more than 3 min.
Dust and water sealed	To international standard IP56
Operating Temperature	-4°f to +122°f (-20°c to +50°c)
Storage Temperature	-40°f to +140°f (-40°c to +60°c)
Laser classification	CDRH Class 3A
	IEC 825-1 Class 3R
Height / Weight	6.5in (16.5cm) / 4.0lbs (1.8kg)

#### Compliance and warning label locations • Alpha-v



A warning placard is included with each laser and can be attached to the outside of the carrying case. The case can then be placed in a visible location near where the laser is being used in order to meet jobsite posting requirements.

## Safety

Precautions to follow when using any laser.

- Don't stare into the laser beam or view it directly with optical instruments.
- Don't disassemble the laser or attempt to service it.
- Don't use the laser until you have read the instruction manual and you are familiar with how to operate the laser properly.

U.S. OSHA requirements for operating visible lasers.

• Only qualified, trained employees may install, adjust and operate the laser.

• Laser operators must carry proof of qualification.

• The area of a job site where a laser is being used must be posted with a laser warning placard.

• The laser should be set up above or below eye level and never intentionally aimed at anyone.

• Turn the laser off when it is not being used, such as during lunch hour, at the end of the day, or during other long breaks in the work.

Note: The Alpha-v is a CDRH class IIIa laser and an IEC 60825 class 3R laser. The Alpha-v conforms to applicable EC directives regarding RFI and EMI and to FDA performance standards 21 CFR subchapter J.

### 24 month warranty coverage

The Alpha-v laser transmitter is warranted for twenty-four (24) months from the date of new equipment purchase from an authorized dealer. During the warranty period, Laser Reference, or its authorized service center. will repair or replace, at Laser Reference's sole discretion, the Alpha-v laser transmitter free of charge, (except for transportation costs) if the products are found by Laser Reference, or its authorized service center. to be defective in either materials or workmanship. Maintaining the calibration of the product is not the responsibility of Laser Reference or its authorized service centers. If service is needed, the product(s) must be sent FREIGHT PREPAID to the nearest authorized service center or to Laser Reference.