



Spectra-Physics

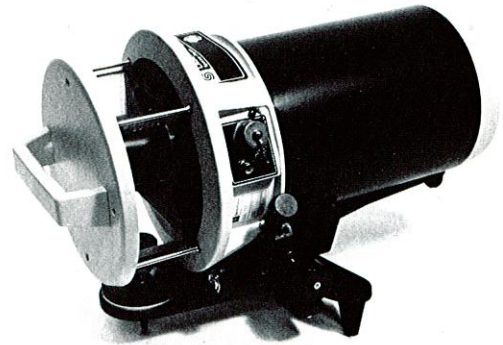
Product Information

Model 949 Vertical Trivet Mount

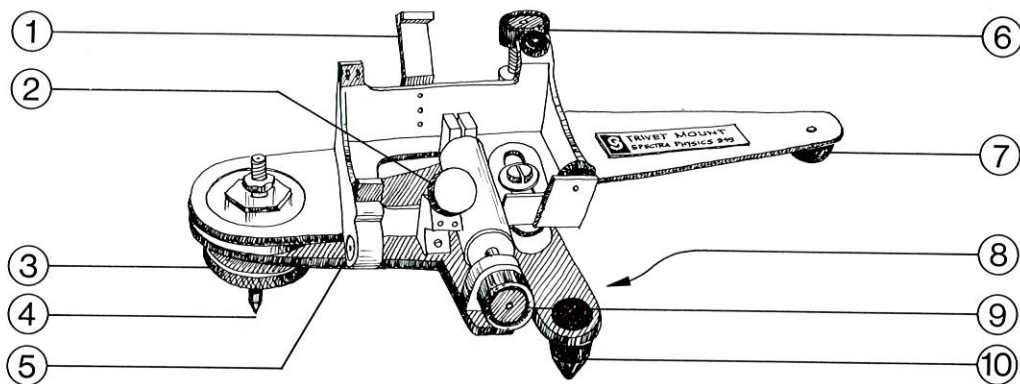
The Spectra-Physics LaserLevel™ system is a one-man construction tool which is saving contractors thousands of dollars in measurement and alignment costs. The LaserLevel's electronic self-leveling system and ± 8 degree self-leveling range have proven their versatility on construction jobsites. Now the Model 949 Vertical Plane Trivet extends this broad self-leveling capability into the vertical plane.

The trivet can be quickly attached to the LaserLevel and set-up on the floor, a tripod, or column clamp to provide a self-plumbed vertical plane of laser light. The laser beam can be used for line and plumb measurements in a large variety of alignment tasks on the construction jobsite. Typical applications include:

- Layout footing forms and anchor bolts.
- Line up and plumb concrete wall and column forms.
- Plumb and align structural steel.
- Layout offset lines and partition locations.
- Position curtain wall clips.
- Vertically transfer control lines in high rise buildings.



For the first time the contractor has the capability of a self-plumbing vertical reference without the need of an instrument man or communications back to the instrument. This means increased accuracy with a greater than 50% reduction in control cost associated with the vertical axis.

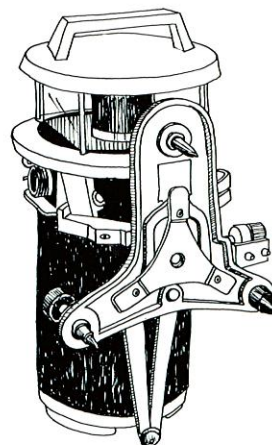


FEATURES & CONTROLS

1. **Fixed Clamping Pad** attaches trivet to LaserLevel casting.
2. **Clamping Knob & Screw** locks trivet to LaserLevel casting.
3. **Forward Level Adjusting Foot** for rough leveling in the long direction.
4. **Beam Reference Point** lies directly beneath beam centerline. Line adjustment rotates about this point.
5. **Bullseye Level** for preliminary leveling of LaserLevel during set-up.
6. **Aft Level Adjusting Foot** for rough leveling in the cross direction.
7. **Bumper** protects LaserLevel from shocks if tipped.
8. **Tripod Mount** $\frac{5}{8}$ " x 11" thread for mounting on ordinary surveyor's tripod. Allows 4" shifting of laser on tripod head.
9. **Line Adjust Knob** allows ± 10 foot adjustment at 100 feet. Rotation is about point directly below beam spin centerline.
10. **Fixed Support Foot**

ATTACHING THE TRIVET TO THE LASERLEVEL

1. Stand the LaserLevel upright on its base and position the trivet on the side **opposite** to the bullseye level vial and LaserLevel nameplate.
2. Position the fixed clamping pad on the outside of the LaserLevel casting strut, pushing the trivet as far up as the casting will allow.
3. Pivot about the fixed clamping pad until the adjustable clamping screw is over the LaserLevel opposite casting strut. Tighten the clamping screw firmly.
4. Level the bullseye vial on the trivet by moving the LaserLevel onto a level surface or shimming its base. (This step is optional but improves the alignment of the beam to the forward level adjusting foot.)
5. Turn the LaserLevel on and allow the laser to self-level automatically (Mode Selection Switch on the LaserLevel should be **up**).
6. After the laser has self-leveled (green light is on), move the Mode Selection Switch to the downward position, placing the laser in the manual leveling mode.
7. The laser inside the LaserLevel housing is now oriented parallel to the trivet and the center of the beam is over the forward level adjusting foot.



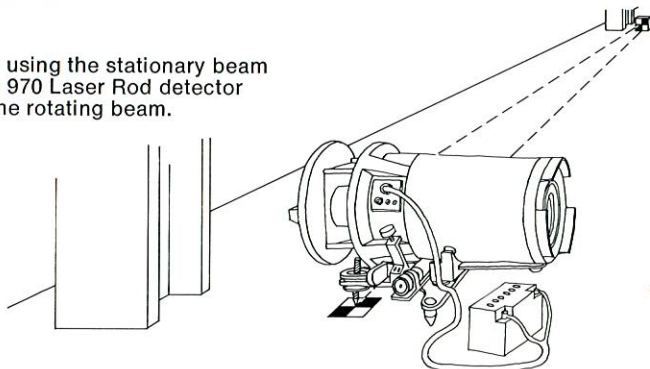
SET-UP

Two points are all that is required to set up the LaserLevel in a vertical plane. The laser can be placed directly over one point and then rotated about that point to hit the second or far point using the line adjusting knob.

On the Floor

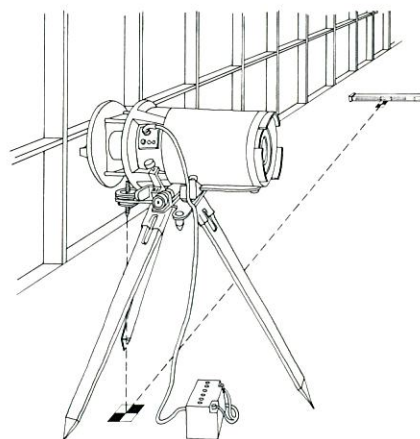
1. Turn the LaserLevel and trivet on its side with the forward level adjusting foot directly over one point of the vertical plane, and with the long axis of the laser roughly perpendicular to the plane.
2. Level the bullseye vial on the upper side of the LaserLevel, using the adjustable feet on the trivet.
3. Switch the LaserLevel into automatic leveling mode.
4. Place the LaserLevel beam on the second point of the vertical plane by rotating the Line Adjusting

Knob, using the stationary beam or the 970 Laser Rod detector with the rotating beam.



On a Tripod

1. Turn the LaserLevel and Trivet on its side and mount on a surveyor's tripod with $\frac{5}{8}$ -11 locking screw. The laser should be set as low to the ground as possible for ease of setup.
2. Position the tripod so that the bullseye vial on the laser is level, and the forward leveling foot is roughly over the first point of the plane.
3. Switch the LaserLevel into automatic leveling mode.
4. Use the shifting feature of the tripod to position the center of the beam over the first point by dropping a plumb bob from the forward leveling foot or by removing the foot and allowing the beam to shine through to the ground. Firmly tighten the $\frac{5}{8}$ -11 locking screw on the tripod.
5. Place the LaserLevel beam on the second point of the vertical plane by rotating the line adjusting knob as above.



Spectra-Physics specializes in the development of construction tools to increase jobsite productivity. This one-man measurement system offers major economies in measurement and alignment.

ORDERING — Order Model 949 Vertical Trivet

WARRANTY — The Model 949 Trivet is guaranteed against defects in parts and workmanship for one year from the date of purchase.

For further information call your local Spectra-Physics Laserman:

