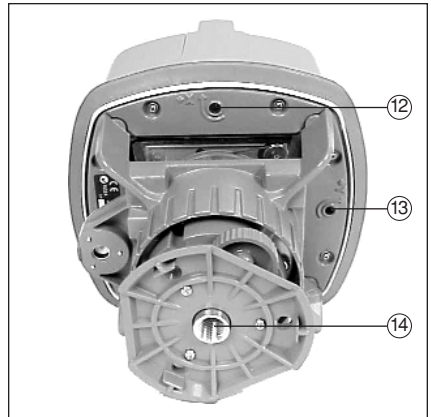




Model LL500 Quick Reference Card



Features and Functions

1. **Power Switch**—turns the laser on/off.
2. **Handle**—allows you to carry the laser easily.
3. **Battery Housing**—holds four D-cell alkaline or Ni-Cd batteries.
4. **Battery-Recharging Jack**—is the port that an optional battery recharger plugs into.
5. **Low-Battery LED**—flashes when the batteries need replacing or recharging.
6. **Rotating Prism**—spins at 600 rpm to transmit the laser signal.
7. **Bull's-Eye Level**—provides an easy reference for leveling the laser.
8. **Leveling Screws**—turn clockwise/ counterclockwise so the laser can be leveled.
9. **Leveling Base**—supports the laser while it's on the tripod. The leveling base also allows you to use the laser freestanding.
10. **Lighthouse**—is a 360° exit window for the laser beam. The lighthouse is sealed and protects the internal components from the environment.
11. **Out-of-Level LED**—flashes when the laser is out of its self-leveling range.
12. **X Axis Calibration Screw**—allows the X axis of the laser to be adjusted so that the laser beam is level.
13. **Y Axis Calibration Screw**—allows the Y axis of the laser to be adjusted so that the laser beam is level.
14. **$\frac{5}{8}$ -11 Tripod Mount**—allows the laser to be attached to a standard $\frac{5}{8}$ -11 construction tripod.

Determining the Height of Instrument (HI)

The height of instrument (HI) is the elevation of the laser's beam. The HI is determined by adding the grade-rod reading to a benchmark or known elevation.

1. Set up and level the laser.
2. Attach the receiver to a grade rod and turn on the receiver.
3. Place the grade rod on a job-site benchmark (BM) or known elevation.
4. Slide the receiver up/down the grade rod until the LCD shows an on-grade reading.
5. Add the grade-rod reading to the benchmark to determine the height of instrument.

Example: Benchmark elevation = 100.23 ft (30.55 m)
On-grade rod reading = + 4.34 ft (1.32 m)
Height of instrument = 104.57 ft (31.87 m)

6. Use this HI as a reference for all other elevations.

