

R-1309 Cassiopeia PDA Readout with IR Receiver and READ9 Software

Hand-held convenience, wireless communication, and multi-purpose alignment software

- **A powerful, pocket-sized readout**
The newest addition to Hamar Laser's wireless alignment technology is the R-1309 readout. Combining a Cassiopeia PDA with an integrated IR receiver, the R-1309 Readout operates with Hamar Laser's A-1519 and A-1520 wireless targets and any continuously rotating laser in our product line.
- **READ9 software supports four targets and multiple alignment functions**
The R-1309 readout comes with Hamar Laser's READ9 alignment software pre-installed. READ9 runs under Windows CE™ and displays readings for up to 4 targets. The software includes mode selections for alignment functions, such as setting a laser plane parallel to three points on a surface, graphic displays of the target readings, sample averaging to minimize the effects of air turbulence or vibration, and a data screen that summarizes the target readings.
- **Faster setup, improved safety, ultimate convenience**
Whether it's roll alignment, leveling applications, machining centers or any application where a continuously rotating laser is used, the combination of Hamar Laser's wireless targets and the R-1309 readout will reduce alignment setup time, improve workplace safety by eliminating hanging cables, and maximize convenience.



The R-1309 features:

- A Cassiopeia PDA with built-in IR receiver.
- Read9 software pre-installed for basic alignment functions.
- Data display for up to 4 wireless targets.
- Displays actual dimensions when using Height Gage mode.
- Wireless range of up to 100 feet and an acceptance range of ± 85 degrees.
- Compatibility with any of Hamar Laser's continuously rotating lasers.
- 8-hour battery life.



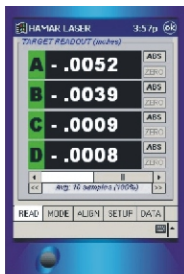
Program Features

Read9 Alignment Software for the R-1309 System



The SETUP screen is used to configure and set up wireless communication, units of measure, display resolution and measurement averaging, which ensures stable readings under most operating conditions.

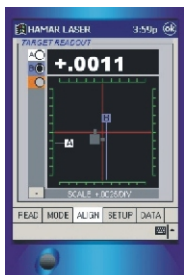
The DATA screen displays the readings for all active targets, offset values (shown on the screen in yellow) and the results of the selections made in the MODE screen.



The READ screen provides a numeric display of values for the connected targets, with the letters A through D referring to the corresponding labels on the targets. Using the READ screen mode buttons, the user can toggle between Absolute or Relative modes. Absolute Mode indicates exactly where the laser plane hits the target, and Relative Mode allows the user to zero the target at any point where the laser plane is detected. When in Relative Mode, the display turns yellow and subsequent readings are compared to the user-defined “zero point.” Also available is Height Gage Mode, which displays the actual dimension from the laser plane to the surface being measured. Each displayed value is an average of 1 to 100 readings. A “slider bar” is provided to control the number of averages, minimizing the effects of air turbulence and vibration on the readings.



The MODE screen is used to specify the target configuration and to select a mode of operation. Relative Alignment is selected when aligning two target points to a laser plane or a laser plane to two target points, an example of which would be roll alignment. Discrete Alignment allows one or two laser planes to be aligned with up to three targets simultaneously, such as aligning a laser to three reference points on a surface.



The ALIGN screen is a graphic representation of the target readings, showing alignment as defined in the MODE screen. The graphic display scales up automatically to fit the readings, and it can be downscaled by clicking the ZOOM button in the bottom right-hand corner. Screens for both Discrete (left) and Relative (right) alignment modes are shown.

Specifications:

Size:	7.25" L x 3.40" W x 1.38" H (184.15 mm x 86.36mm x 35.05mm)
Weight:	1 lb. (453.6 grams)
Resolution:	.001" (.03 mm), .0001" (.003 mm), .00001" (.001 mm in metric mode)
Battery life (PDA):	8 hours (will run on an A/C adapter)
Battery life (IR Receiver):	8 hours
Power (PDA):	3.4V lithium ion battery
Power (IR Receiver):	9V replaceable battery