



Operations Manual

R-1308 Auxiliary Target Readout

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R-1308 Auxiliary Target Readout - Overview

The R-1308 Auxiliary Target Readout is an accessory for the A-1519 and A-1520 Type II Unitargets. This single-axis, lightweight readout attaches directly to the post of the magnetic target base and connects to the auxiliary port on the side of the target, providing an excellent backup for the R-1310-900.

Note: This unit operates with Unitarget firmware version 8.021 or later. Units shipped prior to July 15, 2007 may require a firmware upgrade, available from Hamar Laser Instruments.

Target Features

- Bright LED display with up to 4 decimal places of resolution for easy target readings.
- No batteries, external power supply or charger is required. The unit is powered directly by a connection to the Unitarget and draws a minimal amount of power directly from the Unitarget battery. At the normal brightness setting, the target display draws less than 100 mW.
- User-selectable display allows the target position to be viewed in either inches or millimeters and in Relative (Zero) or Absolute modes.

The picture at the right shows a Unitarget mounted on a standard 5/8 in. (15.75 mm) diameter post, with the R-1308 mounted directly beneath the target. The numerical indicators are as follows:

- (1) **Locking nut**
- (2) **Unitarget Auxiliary Port** (supplies power to the R-1308 Target)
- (3) **Display Units**
- (4) **Display Resolution**
- (5) **Zero Mode** (Relative/Absolute)
- (6) **Display Mode** (reserved for future use)

Mounting the R-1308

1. Shut off power to the Unitarget.
2. Slide the R-1308 mount on to the target post until it is 1 in. (25 mm) or less below the base of the target. The R-1308 can be mounted perpendicular to the target post, as shown, or parallel to the target post for vertical pane applications.
3. Tighten the locking nut.
4. Connect the R-1308 cable to the Unitarget Auxiliary Port. *Do not force the connection.* The arrow on the plug should face toward the back of the target.



Using the R-1308

1. Turn on power to the Unitarget. The R-1308 displays - HL1 - while it initializes. *Do not proceed until a numerical reading displays.*
2. Set the Display Units by pressing the DISPLAY UNITS button to toggle between inches and millimeters. The corresponding LED on the front panel lights.
3. Set the Display Resolution (the desired number of decimal places) by pressing the DISPLAY RES button.

Note: The DISPLAY MODE button is not used in the standard model and is reserved for special applications.

Zeroing the Display

1. To enable Relative position, press and hold the ABS/REL button until the display reads zero. Release the button. The last position reading is memorized as an offset that is subtracted from all subsequent position readings. The REL LED lights when the display shows a reading with no offset applied.
2. Press the ABS/REL button quickly to toggle between Relative and Absolute modes.

Note: The best way to zero the display without disturbing the position measurement is to place your index finger directly behind the ABS/REL button and then push the button with your thumb, as if you are pinching the right side of the unit.