

# The R-1307 Target Readouts

**R-1307C**

**R-1307W-2.4ZB**

**R-1307-2.4ZB**

*Available in three models, supporting both cabled and wireless targets and blinking and continuous laser modes*

## Readout Features

- Hamar Laser's new R-1307 series of Target Readouts is available in three configurations, designed to fit the specific needs of our users.
  - The R-1307C, which replaces the R-307 Readout, supports 2-axis cabled targets.
  - The R-1307W-2.4ZB supports our scanning targets.
  - The R-1307-2.4ZB is a combination readout for cabled targets with the capability to wirelessly transmit target data to a second R-1307 or to our A-910-2.4ZB Computer Data Receiver.
- The R-1307 and R-1307C support all Hamar Laser's 2-axis cabled targets for both blinking and continuous laser modes, now available on the L-705, L-706 and L-708 Lasers.
- The R-1307 and R-1307C support 4x4 mm, 10x10 mm or 20x20 mm PSD cabled targets.
- The R-1307 and R-1307W can be configured to display data from one wireless target in dual-axis (fixed beam) mode or two wireless targets in single-axis (scanning) mode.
- The R-1307 and R-1307W may be used as either the Master Readout or as secondary readouts to display data from a second R-1307.
- Radio frequency for the R-1307 and R-1307W is 2.4 GHz Xbee®.
- User-selectable measurement averaging (2 to 64 samples) for difficult atmospheric conditions.
- Electronic zeroing of target readings.
- The R-1307C/R-1307 can store up to 9 target calibration factors.
- Easy-to-use front control panel allows quick setting changes and clearly displays target readings.
- User can select the number of display digits up to a maximum of .0001" or 0.001 mm.
- Powered by a 2500 mAh Lithium-Polymer rechargeable battery for 7-22 hours of continuous use (depending on model, radio type and display brightness setting).
- Lightweight (1.2 lb./ .55 Kg) with sturdy aluminum housing.



## The R-1307KS Readout Stand

Hamar Laser's new R-1307KS Readout Stand allows for the secure and convenient positioning of the R-1307 Readout.



- Four stand positions: 180°, 135°, 45° (shown in photo) and 0° (closed).
- The stand support leg, when opened to 180°, can be used as a hanger.
- Magnets on the back hold the Readout securely to steel objects.
- When the R-1307KS is assembled to the Readout, magnets are installed on the bottom so the unit can stand upright.
- The R-1307KS can be retrofitted to any existing R-1307 Readout.



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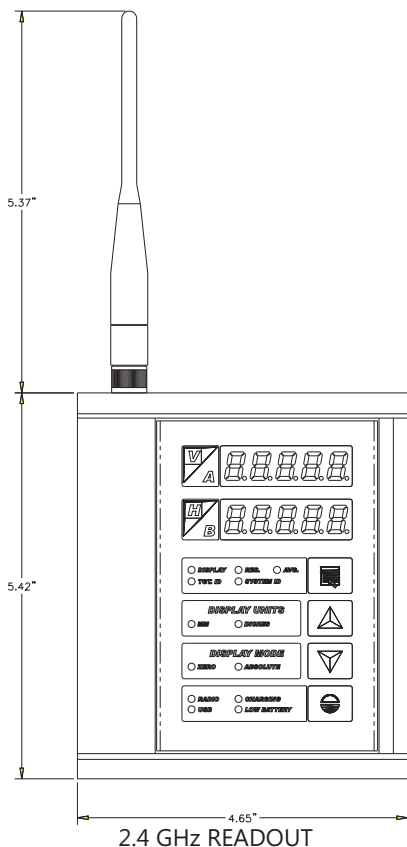
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# Specifications

## The R-1307 Target Readouts



2.4 GHz READOUT

Radio Specifications	R-1307W-2.4ZB Wireless 2.4 Xbee®
<b>Indoor Range</b>	133' (40 M)
<b>Transmit Power</b>	1.25 mW (+1 dBm) / 2 mW (+3 dBm) boost mode
<b>Radio Frequency</b>	2.4 GHz, DSSS (Direct Sequence Spread Spectrum)
<b>Certification (see certification details)</b>	FCC (US): OUR-XBEE IC (CANADA): 4214A-XBEE CE: ETSI C-TICK (Australia) TELEC (Japan)

<b>Battery Type</b>	2500mAh, Lithium-Polymer rechargeable battery
<b>Battery Charging Time</b>	5-8 hours typical
<b>Battery Life Expectancy</b>	800 charge/discharge cycles maximum
<b>Battery Capacity (rated capacity of a new battery)</b>	7-22 hours of continuous use. Varies by model, radio type and display brightness settings.
<b>Power Adapter/Charger</b>	Input: 100-240V ac Output: 7.5V dc 1.2 A
<b>Weight</b>	1.2 lb. (0.55 Kg)
<b>Housing Material</b>	Aluminum
<b>Physical Dimensions</b>	5.45" x 4.63" x 1.45" (excluding antenna) 138 mm x 118 mm x 37 mm
<b>Resolution and Accuracy – Cabled (Local) Target (R-1307C only)</b>	<b>PSD signal processor resolution:</b> up to 0.25 microns with a 10x10mm sensor <b>LED Display resolution:</b> up to .0001 inches, .001mm

### Agency Certifications for the 900 MHz Radio Transceiver FCC (United States of America) Certification Contains FCC ID: OUR-9XCITE

The enclosed device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired operation.

**RF EXPOSURE WARNING:** This equipment is approved only for mobile and base station transmitting devices, separation distances of (i) 20 centimeters or more for antennas with gains < 6 dBi or (ii) 2 meters or more for antennas with gains ≤6 dBi should be maintained between the antenna of this device and nearby persons during operation. To ensure compliance, operation at distances close than this is not recommended.

### IC (Industry Canada) Certification Contains Model 9XCite Radio (900 MHz), IC: 4214A-9XCITE

### Agency Certifications for the 2.4 GHz Radio Transceiver FCC (United States of America) Certification Contains FCC ID: OUR-24XSTREAM

The enclosed device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired operation.

**RF EXPOSURE WARNING:** This equipment is approved only for mobile and base station transmitting devices, separation distances of (i) 20 centimeters or more for antennas with gains < 6 dBi or (ii) 2 meters or more for antennas with gains ≤6 dBi should be maintained between the antenna of this device and nearby persons during operation. To ensure compliance, operation at distances close than this is not recommended.

### IC (Industry Canada) Certification Contains Model 24XStream Radio (2.4 GHz), IC: 4214A-12008 Complies with IC ICES-003

CE !  
Complies with ETSI. France: France imposes restrictions on the 2.4 GHz band. Go to [www.art-telecom.fr](http://www.art-telecom.fr) or contact MaxStream\* for more information. Norway-Norway prohibits operation near Ny-Alesund in Svalbard. More information can be found at the Norway Posts and Telecommunications site ([www.npt.no](http://www.npt.no)).  
Since the 2.4 GHz band is not harmonized throughout Europe, other restrictions may apply to your country.

### Agency Certifications for the XBee® 802.15.4 Series 1 FCC (United States of America) Certification Contains FCC ID: OUR-XBEE IC (Industry Canada) Certification Contains Model XBee 802.14.4 IC:4214A-XBEE Complies with ETSI (Europe), C-TICK (Australia) and Telec (Japan)

**Technical Data:**  
OEM radio transceiver, model number: 24XStream  
Frequency band: 2400.0 - 2483.5 MHz  
Modulation: Frequency shift keying  
Channel spacing: 400 KHz  
ITU classification: 400KF1D  
Output power: 100 mW EIRP max.  
Notified body number: 0891

\*The radio transceiver contained in the A-1519/20 Unitarget is manufactured by MaxStream®. For more information pertaining exclusively to the radio transceiver, please contact MaxStream at (800) 765-9885 or visit their website ([www.maxstream.net](http://www.maxstream.net)).