The R-1307 Target Readouts

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

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R-1307C
R-1307W-2.4ZB
R-1307-2.4ZB

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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.

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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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For a list of our distributors, please visit:  http://www.hamarlaser.com/intl_distributors.htm

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Phone: (800) 826-6185 or +1-203-730-4600  •  Fax: +1-203-730-4611
E-mail: sales@hamarlaser.com  •  Internet: http://www.hamarlaser.com
# Specifications

## The R-1307 Target Readouts

### Radio Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor Range</td>
<td>133' (40 M)</td>
</tr>
<tr>
<td>Transmit Power</td>
<td>1.25 mW (+1 dBm) / 2 mW (+3 dBm) boost mode</td>
</tr>
<tr>
<td>Radio Frequency</td>
<td>2.4 GHz, DSSS (Direct Sequence Spread Spectrum)</td>
</tr>
</tbody>
</table>
| Certification (see certification details) | FCC (US): OUR-XBEE  
|                                 | IC (CANADA): 4214A-XBEE  
|                                 | CE: ETSI  
|                                 | C-TICK (Australia)  
|                                 | TELEC (Japan)                                                      |

### Battery Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>2500mAh, Lithium-Polymer rechargeable battery</td>
</tr>
<tr>
<td>Battery Charging Time</td>
<td>5-8 hours typical</td>
</tr>
<tr>
<td>Battery Life Expectancy</td>
<td>800 charge/discharge cycles maximum</td>
</tr>
<tr>
<td>Battery Capacity (rated capacity of a new battery)</td>
<td>7-22 hours of continuous use. Varies by model, radio type and display brightness settings.</td>
</tr>
</tbody>
</table>
| Power Adapter/Charger           | Input: 100-240V ac  
|                                 | Output: 7.5V dc 1.2 A                                               |
| Weight                          | 1.2 lb. (0.55 Kg)                                                   |
| Housing Material                | Aluminum                                                            |
| Physical Dimensions             | 5.45" x 4.63" x 1.45" (excluding antenna)                          |
|                                 | 138 mm x 118 mm x 37 mm                                              |

### Resolution and Accuracy

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
</table>
| PSD signal processor resolution | up to 0.25 microns with a 10x10mm sensor  
| LED Display resolution          | up to .0001 inches, .001mm                                           |

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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-24XSTREAM

Complies with IC ICES-003

CE 1

Complies with ETSI. France imposes restrictions on the 2.4 GHz band. Go to 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).

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: 400X
- 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).