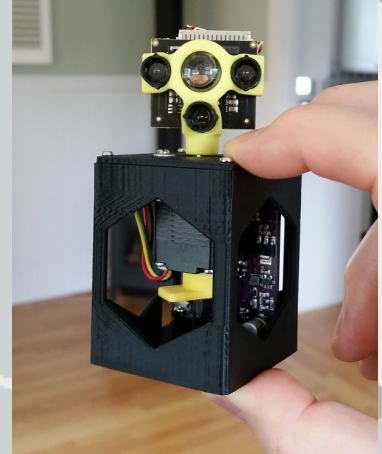


# Rhoeby Dynamics - R2D LiDAR -Product Brief

Entry-level, Low-cost 2D LiDAR device for short-range indoor applications (eg. SLAM)

**Specifications:** (image is representative only)

- Scan range: > 5 m (up to 14 m)
- Scan rate (typical): 1 - 5 Hz, user-configurable
- Angular resolution (typical): ~1 degree, user-configurable
- Range accuracy: +/- 5 – 10 cm
- Enclosed “cylinder” head (optional)
- IR LED-based sensor (TeraRanger Inside\*<sup>1</sup>)
- USB or UART (control and data)
- Non-USB power option: 5v, max 400 mA



**Product benefits:**

- Small form-factor (75 x 44 x 44 mm)
- Light-weight (< 125 g)
- Robust design (direct-drive motor)
- No safety issues (compared to laser-based device)

Target markets: Domestic-application robot systems requiring indoor navigation. Commercial-application robot systems, such as automated shop assistant, Hotel bellhop. Hobby robotics, Robotics research groups (eg. University).

Preliminary data. Subject to change.

\*<sup>1</sup> uses TeraRanger ToF ranging (see [www.teraranger.com](http://www.teraranger.com))

