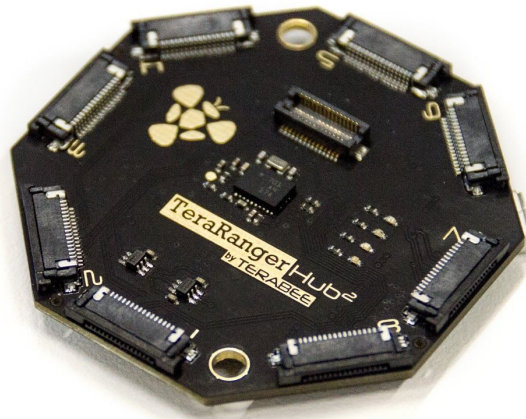


TeraRanger Hub Evo

by TERABEE 



TeraRanger Hub Evo is a **compact and lightweight (13g)** board that enables you to connect up to 8 TeraRanger Evo distance sensors and stream **distance data in millimeters via a USB interface**. Readings from each sensor are synchronized to **avoid cross-talk** making it super easy to setup ‘plug and play’ **custom sensor arrays!** It is the ideal solution for **selective point cloud creation** and **rapid prototyping** of multi-sensor configurations. In addition, an **onboard Inertial Measurement Unit (IMU)** provides data on the hub’s spatial orientation.

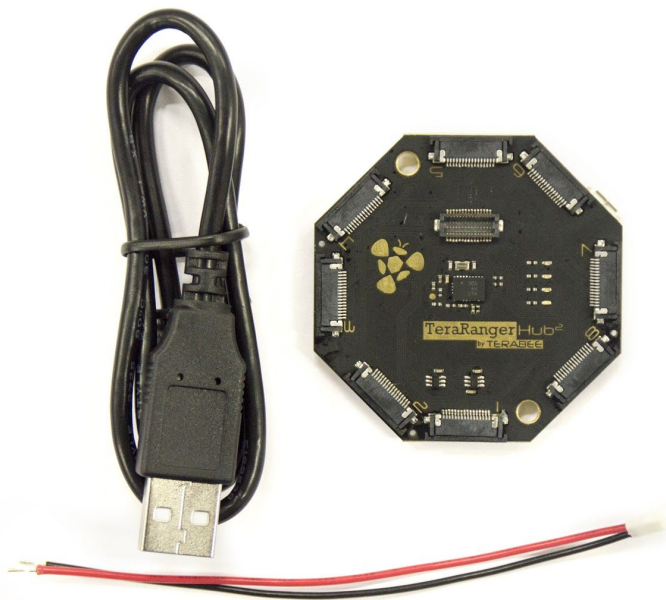
A **Graphical User Interface (GUI)** is available to provide easy visualization of sensor readings for demonstrations and testing purposes. **Drivers for ROS (Robot Operating System)** are also available, adding to the plug and play convenience!

Just some of the many **use cases** include:

- Robot navigation and collision avoidance
- Point cloud generation
- Presence, proximity and position detection
- Object and people counting
- Speed and velocity sensing

Technical Specifications:

	TeraRanger Evo Hub
Dimensions:	∅55mm x 9.2mm high
Weight:	13g
Mounting:	2 x M3 holes
Supply voltage:	12V DC recommended
Supply current:	25mA (plus consumption of each TeraRanger Evo sensor)
Interfaces:	USB 2.0
Connectors:	Standard Micro-USB connector
	Proprietary extension connector
Onboard IMU:	Euler angle mode; Quaternion mode; Quaternion + linear mode
Update Rate modes:	50Hz; 100Hz; 250Hz; ASAP
Embedded Processing Unit:	ARM Cortex-M7 32-bit RISC core
Compatible with:	TeraRanger Evo distance sensors

In the box:

- TeraRanger Evo Hub
- micro-USB cable (50cm)
- power cable with open ends (10cm)

Dimensions:

